



Alpha

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: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • 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

10 May 2016

Sample Traps, LLC

Attn: Quality Control Manager

6398 Dougherty Road, Suite 36

Dublin, CA 94568

RE: QC- 8oz Poly Study

Work Order: 16E0113

Enclosed are the results of analyses for samples received by the laboratory on 05/02/16 21:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin
Project Manager



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Sample Traps, LLC
6398 Dougherty Road, Suite 36
Dublin CA, 94568

Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I6025CUHG Double Washed	16E0113-01	Water	05/02/16 10:30	05/02/16 21:30
Econopoly Precleaned	16E0113-02	Water	05/02/16 10:31	05/02/16 21:30
Econopoly Noncleaned	16E0113-03	Water	05/02/16 10:32	05/02/16 21:30



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Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
16025CUHG Double Washed (16E0113-01) Water Sampled: 05/02/16 10:30 Received: 05/02/16 21:30												
Calcium	0.085	0.020	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:07	EPA 200.7	MAM	J
Magnesium	0.064	0.0080	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:07	EPA 200.7	MAM	J
Potassium	ND	0.040	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:07	EPA 200.7	MAM	U
Sodium	1.6	0.020	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:07	EPA 200.7	MAM	
Econopoly Precleaned (16E0113-02) Water Sampled: 05/02/16 10:31 Received: 05/02/16 21:30												
Calcium	0.063	0.020	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:12	EPA 200.7	MAM	J
Magnesium	0.036	0.0080	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:12	EPA 200.7	MAM	J
Potassium	ND	0.040	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:12	EPA 200.7	MAM	U
Sodium	1.5	0.020	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:12	EPA 200.7	MAM	
Econopoly Noncleaned (16E0113-03) Water Sampled: 05/02/16 10:32 Received: 05/02/16 21:30												
Calcium	0.063	0.020	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:18	EPA 200.7	MAM	J
Magnesium	0.036	0.0080	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:18	EPA 200.7	MAM	J
Potassium	ND	0.040	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:18	EPA 200.7	MAM	U
Sodium	1.0	0.020	1.0		mg/L	1	AD63651	05/03/16 12:32	05/03/16 15:18	EPA 200.7	MAM	



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Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
16025CUHG Double Washed (16E0113-01) Water Sampled: 05/02/16 10:30 Received: 05/02/16 21:30												
Mercury	ND	0.010	0.020	ug/L	1	AE63210	05/06/16 09:00	05/10/16 15:47	EPA 245.1	JJM	U	
Econopoly Precleaned (16E0113-02) Water Sampled: 05/02/16 10:31 Received: 05/02/16 21:30												
Mercury	ND	0.010	0.020	ug/L	1	AE63210	05/06/16 09:00	05/10/16 15:57	EPA 245.1	JJM	U	
Econopoly Noncleaned (16E0113-03) Water Sampled: 05/02/16 10:32 Received: 05/02/16 21:30												
Mercury	ND	0.010	0.020	ug/L	1	AE63210	05/06/16 09:00	05/10/16 16:01	EPA 245.1	JJM	U	



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Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

Metals by EPA Method 200.8 ICP/MS

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

16025CUHG Double Washed (16E0113-01) Water **Sampled: 05/02/16 10:30** **Received: 05/02/16 21:30**

Aluminum	ND	1.6	8.0	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Antimony	ND	0.016	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Arsenic	0.73	0.16	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	
Barium	0.048	0.024	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Beryllium	ND	0.016	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Boron	ND	4.8	40	ug/L	1	AE63157	05/03/16 12:21	05/06/16 11:29	EPA 200.8	MMY	U
Cadmium	ND	0.016	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Chromium	0.20	0.064	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Cobalt	ND	0.0080	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Copper	0.45	0.032	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	
Iron	26	1.6	40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Lead	0.019	0.016	0.20	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Manganese	0.19	0.024	4.0	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Molybdenum	ND	0.016	0.20	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Nickel	0.055	0.048	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Selenium	ND	0.16	1.6	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Silver	ND	0.040	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Thallium	ND	0.016	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	U
Tin	ND		0.80	ug/L	1	AE63157	05/03/16 12:21	05/04/16 11:34	EPA 200.8	MMY	
Vanadium	0.29	0.24	0.80	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J
Zinc	2.5	0.40	4.0	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:13	EPA 200.8	MMY	J

Econopoly Precleaned (16E0113-02) Water **Sampled: 05/02/16 10:31** **Received: 05/02/16 21:30**

Aluminum	ND	1.6	8.0	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Antimony	ND	0.016	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Arsenic	0.65	0.16	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	
Barium	0.074	0.024	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	J
Beryllium	ND	0.016	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Boron	ND	4.8	40	ug/L	1	AE63157	05/03/16 12:21	05/06/16 11:37	EPA 200.8	MMY	U
Cadmium	ND	0.016	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Chromium	0.13	0.064	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	J
Cobalt	ND	0.0080	0.080	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Copper	0.27	0.032	0.40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	J
Iron	26	1.6	40	ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	J

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Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
Econopoly Precleaned (16E0113-02) Water Sampled: 05/02/16 10:31 Received: 05/02/16 21:30												
Lead	ND	0.016	0.20		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Manganese	0.038	0.024	4.0		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	J
Molybdenum	ND	0.016	0.20		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Nickel	ND	0.048	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Selenium	ND	0.16	1.6		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Silver	ND	0.040	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Thallium	ND	0.016	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Tin	ND		0.80		ug/L	1	AE63157	05/03/16 12:21	05/04/16 11:41	EPA 200.8	MMY	
Vanadium	ND	0.24	0.80		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Zinc	ND	0.40	4.0		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:27	EPA 200.8	MMY	U
Econopoly Noncleaned (16E0113-03) Water Sampled: 05/02/16 10:32 Received: 05/02/16 21:30												
Aluminum	ND	1.6	8.0		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Antimony	ND	0.016	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Arsenic	0.73	0.16	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	
Barium	0.048	0.024	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	J
Beryllium	ND	0.016	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Boron	ND	4.8	40		ug/L	1	AE63157	05/03/16 12:21	05/06/16 11:44	EPA 200.8	MMY	U
Cadmium	ND	0.016	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Chromium	0.12	0.064	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	J
Cobalt	ND	0.0080	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Copper	0.25	0.032	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	J
Iron	29	1.6	40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	J
Lead	ND	0.016	0.20		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Manganese	0.035	0.024	4.0		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	J
Molybdenum	ND	0.016	0.20		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Nickel	ND	0.048	0.40		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Selenium	ND	0.16	1.6		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Silver	ND	0.040	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Thallium	ND	0.016	0.080		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Tin	ND		0.80		ug/L	1	AE63157	05/03/16 12:21	05/04/16 11:47	EPA 200.8	MMY	
Vanadium	ND	0.24	0.80		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	U
Zinc	0.53	0.40	4.0		ug/L	1	AE63157	05/03/16 12:21	05/04/16 10:42	EPA 200.8	MMY	J

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Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

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 AD63651 - EPA 200 Series

Blank (AD63651-BLK1)

Prepared: 04/27/16 Analyzed: 04/28/16

Calcium	ND	0.020	1.0	mg/L							U
Magnesium	ND	0.0080	1.0	mg/L							U
Potassium	ND	0.040	1.0	mg/L							U
Sodium	0.565	0.020	1.0	mg/L							J

LCS (AD63651-BS1)

Prepared: 04/27/16 Analyzed: 04/28/16

Calcium	7.27	0.020	1.0	mg/L	8.00		90.9	85-115			
Magnesium	7.17	0.0080	1.0	mg/L	8.00		89.7	85-115			
Potassium	7.29	0.040	1.0	mg/L	8.00		91.1	85-115			
Sodium	7.77	0.020	1.0	mg/L	8.00		97.2	85-115			

Duplicate (AD63651-DUP1)

Source: 16D1502-01

Prepared: 04/27/16 Analyzed: 04/28/16

Calcium	76.2	0.020	1.0	mg/L		78.0			2.28	20	
Magnesium	22.1	0.0080	1.0	mg/L		22.4			1.46	20	
Potassium	1.51	0.040	1.0	mg/L		1.54			2.23	20	
Sodium	24.0	0.020	1.0	mg/L		23.7			0.958	20	

Matrix Spike (AD63651-MS1)

Source: 16D1502-01

Prepared: 04/27/16 Analyzed: 04/28/16

Calcium	86.2	0.020	1.0	mg/L	8.00	78.0	103	70-130			
Magnesium	29.1	0.0080	1.0	mg/L	8.00	22.4	84.4	70-130			
Potassium	9.06	0.040	1.0	mg/L	8.00	1.54	93.9	70-130			
Sodium	31.5	0.020	1.0	mg/L	8.00	23.7	97.4	70-130			

Matrix Spike Dup (AD63651-MSD1)

Source: 16D1502-01

Prepared: 04/27/16 Analyzed: 04/28/16

Calcium	84.0	0.020	1.0	mg/L	8.00	78.0	74.9	70-130	2.64	20	
Magnesium	29.2	0.0080	1.0	mg/L	8.00	22.4	84.9	70-130	0.144	20	
Potassium	9.06	0.040	1.0	mg/L	8.00	1.54	93.9	70-130	0.00223	20	
Sodium	31.0	0.020	1.0	mg/L	8.00	23.7	91.2	70-130	1.60	20	



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Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

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 AE63210 - EPA 245.1 Hg Water

Blank (AE63210-BLK1)			Prepared: 05/06/16 Analyzed: 05/10/16								
Mercury	ND	0.010	0.020	ug/L							U
LCS (AE63210-BS1)			Prepared: 05/06/16 Analyzed: 05/10/16								
Mercury	0.253	0.010	0.020	ug/L	0.250		101	85-115			
Duplicate (AE63210-DUP1)			Source: 16E0446-03			Prepared: 05/06/16 Analyzed: 05/10/16					
Mercury	ND	0.010	0.020	ug/L		ND			20		U
Matrix Spike (AE63210-MS1)			Source: 16E0446-03			Prepared: 05/06/16 Analyzed: 05/10/16					
Mercury	0.238	0.010	0.020	ug/L	0.250	ND	95.2	70-130			
Matrix Spike (AE63210-MS2)			Source: 16E0460-02			Prepared: 05/06/16 Analyzed: 05/10/16					
Mercury	0.217	0.010	0.020	ug/L	0.250	ND	86.8	70-130			
Matrix Spike Dup (AE63210-MSD1)			Source: 16E0446-03			Prepared: 05/06/16 Analyzed: 05/10/16					
Mercury	0.214	0.010	0.020	ug/L	0.250	ND	85.6	70-130	10.6	20	



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e-mail: clientservices@alpha-labs.com

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

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • 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
6398 Dougherty Road, Suite 36
Dublin CA, 94568

Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

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 AE63157 - EPA 200 Series

Blank (AE63157-BLK1)

Prepared & Analyzed: 05/02/16

Aluminum	ND	1.6	8.0	ug/L							U
Antimony	ND	0.016	0.40	ug/L							U
Arsenic	ND	0.16	0.40	ug/L							U
Barium	ND	0.024	0.40	ug/L							U
Beryllium	ND	0.016	0.080	ug/L							U
Boron	ND	4.8	40	ug/L							U
Cadmium	ND	0.016	0.080	ug/L							U
Chromium	ND	0.064	0.40	ug/L							U
Cobalt	ND	0.0080	0.080	ug/L							U
Copper	ND	0.032	0.40	ug/L							U
Iron	ND	1.6	40	ug/L							U
Lead	ND	0.016	0.20	ug/L							U
Manganese	ND	0.024	4.0	ug/L							U
Molybdenum	ND	0.016	0.20	ug/L							U
Nickel	ND	0.048	0.40	ug/L							U
Selenium	ND	0.16	1.6	ug/L							U
Silver	ND	0.040	0.080	ug/L							U
Thallium	ND	0.016	0.080	ug/L							U
Tin	ND		0.80	ug/L							U
Vanadium	0.285	0.24	0.80	ug/L							J
Zinc	ND	0.40	4.0	ug/L							U

LCS (AE63157-BS1)

Prepared & Analyzed: 05/02/16

Aluminum	532	1.6	8.0	ug/L	520	102	85-115
Antimony	21.1	0.016	0.40	ug/L	20.0	106	85-115
Arsenic	21.7	0.16	0.40	ug/L	20.0	108	85-115
Barium	21.1	0.024	0.40	ug/L	20.0	106	85-115
Beryllium	21.2	0.016	0.080	ug/L	20.0	106	85-115
Boron	97.2	4.8	40	ug/L	100	97.2	85-115
Cadmium	20.9	0.016	0.080	ug/L	20.0	104	85-115
Chromium	20.8	0.064	0.40	ug/L	20.0	104	85-115
Cobalt	20.9	0.0080	0.080	ug/L	20.0	105	85-115
Copper	20.3	0.032	0.40	ug/L	20.0	101	85-115
Iron	532	1.6	40	ug/L	520	102	85-115
Lead	22.7	0.016	0.20	ug/L	20.0	114	85-115

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Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

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 AE63157 - EPA 200 Series

LCS (AE63157-BS1)

Prepared & Analyzed: 05/02/16

Manganese	20.3	0.024	4.0	ug/L	20.0	102	85-115				
Molybdenum	20.3	0.016	0.20	ug/L	20.0	102	85-115				
Nickel	21.0	0.048	0.40	ug/L	20.0	105	85-115				
Selenium	21.3	0.16	1.6	ug/L	20.0	107	85-115				
Silver	20.7	0.040	0.080	ug/L	20.0	103	85-115				
Thallium	22.7	0.016	0.080	ug/L	20.0	114	85-115				
Tin	21.0		0.80	ug/L	20.0	105	85-115				
Vanadium	22.0	0.24	0.80	ug/L	20.0	110	85-115				
Zinc	101	0.40	4.0	ug/L	100	101	85-115				

Duplicate (AE63157-DUP1)

Source: 16D2508-07

Prepared & Analyzed: 05/02/16

Aluminum	226	8.0	40	ug/L		225		0.502	20		
Antimony	0.398	0.080	2.0	ug/L		0.394		1.08	20		J
Arsenic	6.39	0.80	2.0	ug/L		6.59		3.10	20		
Barium	53.5	0.12	2.0	ug/L		52.7		1.51	20		
Beryllium	ND	0.080	0.40	ug/L		ND			20		U
Boron	1650	24	200	ug/L		1660		0.570	20		
Cadmium	ND	0.080	0.40	ug/L		ND			20		U
Chromium	ND	0.32	2.0	ug/L		ND			20		U
Cobalt	0.0769	0.040	0.40	ug/L		0.0681		12.1	20		J
Copper	274	0.16	2.0	ug/L		271		0.952	20		
Iron	ND	8.0	200	ug/L		ND			20		U
Lead	0.206	0.080	1.0	ug/L		0.163		23.3	20		J
Manganese	3.49	0.12	20	ug/L		3.43		1.73	20		J
Molybdenum	5.47	0.080	1.0	ug/L		5.35		2.12	20		
Nickel	6.64	0.24	2.0	ug/L		6.47		2.62	20		
Selenium	ND	0.80	8.0	ug/L		1.49			20		U
Silver	ND	0.20	0.40	ug/L		ND			20		U
Thallium	ND	0.080	0.40	ug/L		ND			20		U
Tin	0.301		4.0	ug/L		0.250		18.5	20		
Vanadium	9.92	1.2	4.0	ug/L		9.80		1.29	20		
Zinc	40.2	2.0	20	ug/L		33.1		19.4	20		

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Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

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 AE63157 - EPA 200 Series

Matrix Spike (AE63157-MS1)

Source: 16D2508-07

Prepared & Analyzed: 05/02/16

Aluminum	2980	8.0	40	ug/L	2600	225	106	70-130			
Antimony	106	0.080	2.0	ug/L	100	0.394	106	70-130			
Arsenic	114	0.80	2.0	ug/L	100	6.59	108	70-130			
Barium	155	0.12	2.0	ug/L	100	52.7	102	70-130			
Beryllium	112	0.080	0.40	ug/L	100	ND	112	70-130			
Boron	2190	24	200	ug/L	500	1660	106	70-130			
Cadmium	104	0.080	0.40	ug/L	100	ND	104	70-130			
Chromium	94.3	0.32	2.0	ug/L	100	ND	94.3	70-130			
Cobalt	100	0.040	0.40	ug/L	100	0.0681	100	70-130			
Copper	373	0.16	2.0	ug/L	100	271	102	70-130			
Iron	2490	8.0	200	ug/L	2600	ND	95.7	70-130			
Lead	102	0.080	1.0	ug/L	100	0.163	102	70-130			
Manganese	100	0.12	20	ug/L	100	3.43	96.8	70-130			
Molybdenum	109	0.080	1.0	ug/L	100	5.35	103	70-130			
Nickel	106	0.24	2.0	ug/L	100	6.47	99.7	70-130			
Selenium	108	0.80	8.0	ug/L	100	1.49	107	70-130			
Silver	98.7	0.20	0.40	ug/L	100	ND	98.7	70-130			
Thallium	102	0.080	0.40	ug/L	100	ND	102	70-130			
Tin	104		4.0	ug/L	100	0.250	104	70-130			
Vanadium	113	1.2	4.0	ug/L	100	9.80	103	70-130			
Zinc	547	2.0	20	ug/L	500	33.1	103	70-130			

Matrix Spike (AE63157-MS2)

Source: 16D2508-10

Prepared & Analyzed: 05/02/16

Aluminum	2940	8.0	40	ug/L	2600	211	105	70-130			
Antimony	106	0.080	2.0	ug/L	100	0.448	105	70-130			
Arsenic	115	0.80	2.0	ug/L	100	6.37	108	70-130			
Barium	156	0.12	2.0	ug/L	100	56.5	99.6	70-130			
Beryllium	109	0.080	0.40	ug/L	100	ND	109	70-130			
Boron	2200	24	200	ug/L	500	1720	96.0	70-130			
Cadmium	104	0.080	0.40	ug/L	100	ND	104	70-130			
Chromium	92.3	0.32	2.0	ug/L	100	ND	92.3	70-130			
Cobalt	98.3	0.040	0.40	ug/L	100	0.0715	98.3	70-130			
Copper	263	0.16	2.0	ug/L	100	165	97.9	70-130			
Iron	2480	8.0	200	ug/L	2600	ND	95.5	70-130			
Lead	99.5	0.080	1.0	ug/L	100	0.126	99.3	70-130			

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Sample Traps, LLC
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Project Manager: Quality Control Manager
Project: QC- 8oz Poly Study
Project Number: TRACE Metals HNO3

Reported:
05/10/16 16:44

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 AE63157 - EPA 200 Series

Matrix Spike (AE63157-MS2)

Source: 16D2508-10

Prepared & Analyzed: 05/02/16

Manganese	101	0.12	20	ug/L	100	4.67	96.7	70-130			
Molybdenum	109	0.080	1.0	ug/L	100	5.61	103	70-130			
Nickel	99.7	0.24	2.0	ug/L	100	1.38	98.3	70-130			
Selenium	106	0.80	8.0	ug/L	100	ND	106	70-130			
Silver	98.6	0.20	0.40	ug/L	100	ND	98.6	70-130			
Thallium	98.7	0.080	0.40	ug/L	100	ND	98.7	70-130			
Tin	104		4.0	ug/L	100	0.355	103	70-130			
Vanadium	113	1.2	4.0	ug/L	100	9.77	103	70-130			
Zinc	538	2.0	20	ug/L	500	20.3	103	70-130			

Matrix Spike Dup (AE63157-MSD1)

Source: 16D2508-07

Prepared & Analyzed: 05/02/16

Aluminum	2990	8.0	40	ug/L	2600	225	106	70-130	0.307	20	
Antimony	107	0.080	2.0	ug/L	100	0.394	106	70-130	0.775	20	
Arsenic	116	0.80	2.0	ug/L	100	6.59	109	70-130	1.19	20	
Barium	154	0.12	2.0	ug/L	100	52.7	101	70-130	0.650	20	
Beryllium	110	0.080	0.40	ug/L	100	ND	110	70-130	1.27	20	
Boron	2180	24	200	ug/L	500	1660	102	70-130	0.830	20	
Cadmium	106	0.080	0.40	ug/L	100	ND	106	70-130	1.89	20	
Chromium	94.7	0.32	2.0	ug/L	100	ND	94.7	70-130	0.390	20	
Cobalt	100	0.040	0.40	ug/L	100	0.0681	100	70-130	0.233	20	
Copper	368	0.16	2.0	ug/L	100	271	96.5	70-130	1.46	20	
Iron	2520	8.0	200	ug/L	2600	ND	96.9	70-130	1.18	20	
Lead	101	0.080	1.0	ug/L	100	0.163	101	70-130	1.49	20	
Manganese	101	0.12	20	ug/L	100	3.43	97.6	70-130	0.729	20	
Molybdenum	110	0.080	1.0	ug/L	100	5.35	105	70-130	1.56	20	
Nickel	106	0.24	2.0	ug/L	100	6.47	99.5	70-130	0.188	20	
Selenium	108	0.80	8.0	ug/L	100	1.49	107	70-130	0.0472	20	
Silver	101	0.20	0.40	ug/L	100	ND	101	70-130	2.38	20	
Thallium	101	0.080	0.40	ug/L	100	ND	101	70-130	0.587	20	
Tin	106		4.0	ug/L	100	0.250	106	70-130	2.04	20	
Vanadium	115	1.2	4.0	ug/L	100	9.80	105	70-130	1.76	20	
Zinc	553	2.0	20	ug/L	500	33.1	104	70-130	1.09	20	

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Project Manager: Quality Control Manager

Project: QC- 8oz Poly Study

Project Number: TRACE Metals HNO3

Reported:

05/10/16 16:44

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
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