



Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto: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

28 February 2018

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 4oz WM Poly

Work Order: 18B1277

Enclosed are the results of analyses for samples received by the laboratory on 02/14/18 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin  
Project Manager



Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto: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 P8040CUCS

Reported:  
02/28/18 16:47

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| P8040CUCS | 18B1277-01    | Water  | 02/14/18 00:00 | 02/14/18 12:00 |



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 P8040CUCS

Reported:  
02/28/18 16:47

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

| Analyte  | Result | MDL   | Reporting |  | Units | Dilution | Batch   | Prepared       | Analyzed       | Method    | Analyst | Notes |
|--|--------|-------|-----------|--|-------|----------|---------|----------------|----------------|-----------|---------|-------|
|  |        |       | Limit     |  |       |          |         |                |                |           |         |       |
| <b>P8040CUCS (18B1277-01) Water    Sampled: 02/14/18 00:00    Received: 02/14/18 12:00</b> |        |       |           |  |       |          |         |                |                |           |         |       |
| Calcium  | ND     | 0.20  | 1.0       |  | mg/L  | 1        | AB83533 | 02/16/18 09:30 | 02/26/18 16:16 | EPA 200.7 | MAM     | U     |
| Magnesium  | ND     | 0.030 | 1.0       |  | mg/L  | 1        | AB83533 | 02/16/18 09:30 | 02/26/18 16:16 | EPA 200.7 | MAM     | U     |
| Potassium  | ND     | 0.20  | 1.0       |  | mg/L  | 1        | AB83533 | 02/16/18 09:30 | 02/26/18 16:16 | EPA 200.7 | MAM     | U     |
| Sodium   | ND     | 0.40  | 1.0       |  | mg/L  | 1        | AB83533 | 02/16/18 09:30 | 02/26/18 16:16 | 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 P8040CUCS

Reported:  
02/28/18 16:47

### Metals by EPA 200 Series Methods

| Analyte  | Result | MDL   | Reporting |  | Units | Dilution | Batch   | Prepared       | Analyzed       | Method    | Analyst | Notes |
|--|--------|-------|-----------|--|-------|----------|---------|----------------|----------------|-----------|---------|-------|
|  |        |       | Limit     |  |       |          |         |                |                |           |         |       |
| <b>P8040CUCS (18B1277-01) Water    Sampled: 02/14/18 00:00    Received: 02/14/18 12:00</b> |        |       |           |  |       |          |         |                |                |           |         |       |
| Mercury  | ND     | 0.010 | 0.020     |  | ug/L  | 1        | AB83418 | 02/16/18 10:30 | 02/21/18 17:54 | EPA 245.1 | REN     | U     |
| Tin  | ND     | 0.020 | 0.050     |  | mg/L  | 1        | AB83533 | 02/16/18 09:30 | 02/26/18 16:16 | 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 P8040CUCS

Reported:  
02/28/18 16:47

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

| Analyte  | Result       | MDL          | Reporting   |  | Units       | Dilution | Batch   | Prepared       | Analyzed       | Method    | Analyst | Notes       |
|--|--------------|--------------|-------------|--|-------------|----------|---------|----------------|----------------|-----------|---------|-------------|
|  |              |              | Limit       |  |             |          |         |                |                |           |         |             |
| <b>P8040CUCS (18B1277-01) Water    Sampled: 02/14/18 00:00    Received: 02/14/18 12:00</b> |              |              |             |  |             |          |         |                |                |           |         |             |
|  |              |              |             |  |             |          |         |                |                |           |         | <b>P-02</b> |
| Aluminum   | ND           | 5.0          | 10          |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Antimony   | ND           | 0.20         | 0.50        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Arsenic  | ND           | 0.20         | 0.50        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Barium   | ND           | 0.20         | 0.50        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Beryllium  | ND           | 0.020        | 0.10        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Boron  | ND           | 20           | 50          |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Cadmium  | ND           | 0.030        | 0.10        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Chromium   | ND           | 0.080        | 0.50        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 16:03 | EPA 200.8 | MMY     | U           |
| <b>Cobalt</b>  | <b>0.057</b> | <b>0.030</b> | <b>0.10</b> |  | <b>ug/L</b> | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 16:03 | EPA 200.8 | MMY     | J           |
| Copper   | ND           | 0.40         | 0.50        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Iron   | ND           | 10           | 50          |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Lead   | ND           | 0.060        | 0.25        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Manganese  | ND           | 0.90         | 5.0         |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Molybdenum   | ND           | 0.070        | 0.25        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Nickel   | ND           | 0.30         | 0.50        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Selenium   | ND           | 0.20         | 2.0         |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Silver   | ND           | 0.050        | 0.10        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Thallium   | ND           | 0.050        | 0.10        |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Vanadium   | ND           | 0.50         | 1.0         |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | EPA 200.8 | MMY     | U           |
| Zinc   | ND           | 2.0          | 5.0         |  | ug/L        | 1        | AB83531 | 02/20/18 08:00 | 02/21/18 11:32 | 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 P8040CUCS

Reported:  
02/28/18 16:47

**Anions by EPA Method 300.0**

| Analyte  | Result     | MDL         | Reporting   |  | Units       | Dilution | Batch   | Prepared       | Analyzed       | Method    | Analyst | Notes |
|--|------------|-------------|-------------|--|-------------|----------|---------|----------------|----------------|-----------|---------|-------|
|  |            |             | Limit       |  |             |          |         |                |                |           |         |       |
| <b>P8040CUCS (18B1277-01) Water    Sampled: 02/14/18 00:00    Received: 02/14/18 12:00</b> |            |             |             |  |             |          |         |                |                |           |         |       |
| Fluoride   | ND         | 0.070       | 0.10        |  | mg/L        | 1        | AB83508 | 02/15/18 12:42 | 02/15/18 12:42 | EPA 300.0 | SMP     | U     |
| Nitrate as NO3   | ND         | 0.20        | 1.0         |  | mg/L        | 1        | AB83508 | 02/15/18 12:42 | 02/15/18 12:42 | EPA 300.0 | SMP     | U     |
| Nitrite as NO2   | ND         | 0.20        | 1.0         |  | mg/L        | 1        | AB83508 | 02/15/18 12:42 | 02/15/18 12:42 | EPA 300.0 | SMP     | U     |
| <b>Sulfate as SO4</b>  | <b>1.5</b> | <b>0.20</b> | <b>0.50</b> |  | <b>mg/L</b> | 1        | AB83508 | 02/15/18 12:42 | 02/15/18 12:42 | EPA 300.0 | SMP     |       |



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 P8040CUCS

Reported:  
02/28/18 16:47

**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 AB83533 - Metals Digest**

**Blank (AB83533-BLK1)**

Prepared: 02/16/18 Analyzed: 02/21/18

|           |    |       |     |      |  |  |  |  |  |  |   |
|-----------|----|-------|-----|------|--|--|--|--|--|--|---|
| Calcium   | ND | 0.20  | 1.0 | mg/L |  |  |  |  |  |  | U |
| Magnesium | ND | 0.030 | 1.0 | mg/L |  |  |  |  |  |  | U |
| Potassium | ND | 0.20  | 1.0 | mg/L |  |  |  |  |  |  | U |
| Sodium    | ND | 0.40  | 1.0 | mg/L |  |  |  |  |  |  | U |

**LCS (AB83533-BS1)**

Prepared: 02/16/18 Analyzed: 02/21/18

|           |      |       |     |      |      |  |      |        |  |  |  |
|-----------|------|-------|-----|------|------|--|------|--------|--|--|--|
| Calcium   | 7.65 | 0.20  | 1.0 | mg/L | 8.00 |  | 95.6 | 85-115 |  |  |  |
| Magnesium | 7.64 | 0.030 | 1.0 | mg/L | 8.00 |  | 95.6 | 85-115 |  |  |  |
| Potassium | 7.34 | 0.20  | 1.0 | mg/L | 8.00 |  | 91.7 | 85-115 |  |  |  |
| Sodium    | 7.99 | 0.40  | 1.0 | mg/L | 8.00 |  | 99.8 | 85-115 |  |  |  |

**Duplicate (AB83533-DUP1)**

Source: 18B1116-01

Prepared: 02/16/18 Analyzed: 02/21/18

|           |       |       |     |      |  |       |  |  |       |    |   |
|-----------|-------|-------|-----|------|--|-------|--|--|-------|----|---|
| Calcium   | 43.3  | 0.20  | 1.0 | mg/L |  | 42.9  |  |  | 0.836 | 20 |   |
| Magnesium | 19.6  | 0.030 | 1.0 | mg/L |  | 19.5  |  |  | 0.723 | 20 |   |
| Potassium | 0.780 | 0.20  | 1.0 | mg/L |  | 0.770 |  |  | 1.37  | 20 | J |
| Sodium    | 14.0  | 0.40  | 1.0 | mg/L |  | 13.9  |  |  | 0.868 | 20 |   |

**Matrix Spike (AB83533-MS1)**

Source: 18B1116-01

Prepared: 02/16/18 Analyzed: 02/21/18

|           |      |       |     |      |      |       |      |        |  |  |  |
|-----------|------|-------|-----|------|------|-------|------|--------|--|--|--|
| Calcium   | 51.9 | 0.20  | 1.0 | mg/L | 8.00 | 42.9  | 112  | 70-130 |  |  |  |
| Magnesium | 27.7 | 0.030 | 1.0 | mg/L | 8.00 | 19.5  | 104  | 70-130 |  |  |  |
| Potassium | 8.29 | 0.20  | 1.0 | mg/L | 8.00 | 0.770 | 94.0 | 70-130 |  |  |  |
| Sodium    | 21.2 | 0.40  | 1.0 | mg/L | 8.00 | 13.9  | 90.7 | 70-130 |  |  |  |

**Matrix Spike (AB83533-MS2)**

Source: 18B1313-02

Prepared: 02/16/18 Analyzed: 02/21/18

|           |      |       |     |      |      |      |     |        |  |  |       |
|-----------|------|-------|-----|------|------|------|-----|--------|--|--|-------|
| Calcium   | 72.8 | 0.20  | 1.0 | mg/L | 8.00 | 62.0 | 136 | 70-130 |  |  | QM-4X |
| Magnesium | 27.7 | 0.030 | 1.0 | mg/L | 8.00 | 18.6 | 114 | 70-130 |  |  |       |
| Potassium | 19.4 | 0.20  | 1.0 | mg/L | 8.00 | 11.3 | 102 | 70-130 |  |  |       |
| Sodium    | 484  | 0.40  | 1.0 | mg/L | 8.00 | 465  | 245 | 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 P8040CUCS

Reported:  
02/28/18 16:47

**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 AB83533 - Metals Digest**

**Matrix Spike Dup (AB83533-MSD1)**

Source: 18B1116-01

Prepared: 02/16/18 Analyzed: 02/21/18

|           |      |       |     |      |      |       |      |        |      |    |       |
|-----------|------|-------|-----|------|------|-------|------|--------|------|----|-------|
| Calcium   | 53.9 | 0.20  | 1.0 | mg/L | 8.00 | 42.9  | 137  | 70-130 | 3.67 | 20 | QM-4X |
| Magnesium | 28.2 | 0.030 | 1.0 | mg/L | 8.00 | 19.5  | 109  | 70-130 | 1.49 | 20 |       |
| Potassium | 8.51 | 0.20  | 1.0 | mg/L | 8.00 | 0.770 | 96.8 | 70-130 | 2.67 | 20 |       |
| Sodium    | 21.8 | 0.40  | 1.0 | mg/L | 8.00 | 13.9  | 98.0 | 70-130 | 2.71 | 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 P8040CUCS

Reported:  
02/28/18 16:47

**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 AB83418 - EPA 245.1 Hg Water**

|  |       |       |                                       |      |       |                                       |      |        |      |    |   |
|--|-------|-------|---------------------------------------|------|-------|---------------------------------------|------|--------|------|----|---|
| <b>Blank (AB83418-BLK1)</b>            |       |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |       |                                       |      |        |      |    |   |
| Mercury                                | ND    | 0.010 | 0.020                                 | ug/L |       |                                       |      |        |      |    | U |
| <b>LCS (AB83418-BS1)</b>               |       |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |       |                                       |      |        |      |    |   |
| Mercury                                | 0.267 | 0.010 | 0.020                                 | ug/L | 0.250 |                                       | 107  | 85-115 |      |    |   |
| <b>Duplicate (AB83418-DUP1)</b>        |       |       | <b>Source: 18B1211-01</b>             |      |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |        |      |    |   |
| Mercury                                | ND    | 0.010 | 0.020                                 | ug/L |       | 0.0720                                |      |        |      | 20 | U |
| <b>Matrix Spike (AB83418-MS1)</b>      |       |       | <b>Source: 18B1211-01</b>             |      |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |        |      |    |   |
| Mercury                                | 0.254 | 0.010 | 0.020                                 | ug/L | 0.250 | 0.0720                                | 72.8 | 70-130 |      |    |   |
| <b>Matrix Spike Dup (AB83418-MSD1)</b> |       |       | <b>Source: 18B1211-01</b>             |      |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |        |      |    |   |
| Mercury                                | 0.264 | 0.010 | 0.020                                 | ug/L | 0.250 | 0.0720                                | 76.8 | 70-130 | 3.86 | 20 |   |

**Batch AB83533 - Metals Digest**

|                                   |       |       |                                       |      |       |                                       |      |        |  |    |   |
|-----------------------------------|-------|-------|---------------------------------------|------|-------|---------------------------------------|------|--------|--|----|---|
| <b>Blank (AB83533-BLK1)</b>       |       |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |       |                                       |      |        |  |    |   |
| Tin                               | ND    | 0.020 | 0.050                                 | mg/L |       |                                       |      |        |  |    | U |
| <b>LCS (AB83533-BS1)</b>          |       |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |       |                                       |      |        |  |    |   |
| Tin                               | 0.193 | 0.020 | 0.050                                 | mg/L | 0.200 |                                       | 96.6 | 85-115 |  |    |   |
| <b>Duplicate (AB83533-DUP1)</b>   |       |       | <b>Source: 18B1116-01</b>             |      |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |        |  |    |   |
| Tin                               | ND    | 0.020 | 0.050                                 | mg/L |       | ND                                    |      |        |  | 20 | U |
| <b>Matrix Spike (AB83533-MS1)</b> |       |       | <b>Source: 18B1116-01</b>             |      |       | Prepared: 02/16/18 Analyzed: 02/21/18 |      |        |  |    |   |
| Tin                               | 0.189 | 0.020 | 0.050                                 | mg/L | 0.200 | ND                                    | 94.4 | 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 P8040CUCS

Reported:  
02/28/18 16:47

### Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch AB83533 - Metals Digest

##### Matrix Spike (AB83533-MS2)

Source: 18B1313-02

Prepared: 02/16/18 Analyzed: 02/21/18

|     |       |       |       |      |       |        |     |        |  |  |  |
|-----|-------|-------|-------|------|-------|--------|-----|--------|--|--|--|
| Tin | 0.226 | 0.020 | 0.050 | mg/L | 0.200 | 0.0260 | 100 | 70-130 |  |  |  |
|-----|-------|-------|-------|------|-------|--------|-----|--------|--|--|--|

##### Matrix Spike Dup (AB83533-MSD1)

Source: 18B1116-01

Prepared: 02/16/18 Analyzed: 02/21/18

|     |       |       |       |      |       |    |      |        |      |    |  |
|-----|-------|-------|-------|------|-------|----|------|--------|------|----|--|
| Tin | 0.198 | 0.020 | 0.050 | mg/L | 0.200 | ND | 99.0 | 70-130 | 4.79 | 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 P8040CUCS

Reported:  
02/28/18 16:47

**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 AB83531 - EPA 200.8**

**Blank (AB83531-BLK1)**

Prepared: 02/20/18 Analyzed: 02/21/18

|            |      |       |      |      |  |  |  |  |  |  |   |
|------------|------|-------|------|------|--|--|--|--|--|--|---|
| Aluminum   | 5.01 | 5.0   | 10   | ug/L |  |  |  |  |  |  | J |
| 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   | 0.020 | 0.10 | ug/L |  |  |  |  |  |  | U |
| Boron      | ND   | 20    | 50   | ug/L |  |  |  |  |  |  | U |
| Cadmium    | ND   | 0.030 | 0.10 | ug/L |  |  |  |  |  |  | U |
| Chromium   | ND   | 0.080 | 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   | 0.90  | 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 (AB83531-BS1)**

Prepared: 02/20/18 Analyzed: 02/21/18

|           |      |       |      |      |      |     |        |
|-----------|------|-------|------|------|------|-----|--------|
| Aluminum  | 577  | 5.0   | 10   | ug/L | 520  | 111 | 85-115 |
| Antimony  | 21.4 | 0.20  | 0.50 | ug/L | 20.0 | 107 | 85-115 |
| Arsenic   | 21.0 | 0.20  | 0.50 | ug/L | 20.0 | 105 | 85-115 |
| Barium    | 20.7 | 0.20  | 0.50 | ug/L | 20.0 | 104 | 85-115 |
| Beryllium | 20.9 | 0.020 | 0.10 | ug/L | 20.0 | 104 | 85-115 |
| Boron     | 100  | 20    | 50   | ug/L | 100  | 100 | 85-115 |
| Cadmium   | 20.9 | 0.030 | 0.10 | ug/L | 20.0 | 105 | 85-115 |
| Chromium  | 20.7 | 0.080 | 0.50 | ug/L | 20.0 | 104 | 85-115 |
| Cobalt    | 20.8 | 0.030 | 0.10 | ug/L | 20.0 | 104 | 85-115 |
| Copper    | 20.5 | 0.40  | 0.50 | ug/L | 20.0 | 103 | 85-115 |
| Iron      | 538  | 10    | 50   | ug/L | 520  | 103 | 85-115 |
| Lead      | 20.5 | 0.060 | 0.25 | ug/L | 20.0 | 103 | 85-115 |
| Manganese | 20.2 | 0.90  | 5.0  | ug/L | 20.0 | 101 | 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 P8040CUCS

Reported:  
02/28/18 16:47

**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 AB83531 - EPA 200.8**

**LCS (AB83531-BS1)**

Prepared: 02/20/18 Analyzed: 02/21/18

|            |      |       |      |      |      |     |        |  |  |  |  |
|------------|------|-------|------|------|------|-----|--------|--|--|--|--|
| Molybdenum | 21.4 | 0.070 | 0.25 | ug/L | 20.0 | 107 | 85-115 |  |  |  |  |
| Nickel     | 20.7 | 0.30  | 0.50 | ug/L | 20.0 | 104 | 85-115 |  |  |  |  |
| Selenium   | 20.7 | 0.20  | 2.0  | ug/L | 20.0 | 104 | 85-115 |  |  |  |  |
| Silver     | 21.0 | 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   | 20.9 | 0.50  | 1.0  | ug/L | 20.0 | 104 | 85-115 |  |  |  |  |
| Zinc       | 102  | 2.0   | 5.0  | ug/L | 100  | 102 | 85-115 |  |  |  |  |

**Duplicate (AB83531-DUP1)**

Source: 18B1266-01

Prepared: 02/20/18 Analyzed: 02/21/18

|            |       |       |      |      |       |  |  |       |    |  |         |
|------------|-------|-------|------|------|-------|--|--|-------|----|--|---------|
| Aluminum   | ND    | 20    | 40   | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Antimony   | ND    | 0.80  | 2.0  | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Arsenic    | 6.22  | 0.80  | 2.0  | ug/L | 6.51  |  |  | 4.56  | 20 |  |         |
| Barium     | 45.0  | 0.80  | 2.0  | ug/L | 45.3  |  |  | 0.581 | 20 |  |         |
| Beryllium  | ND    | 0.080 | 0.40 | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Boron      | 236   | 80    | 200  | ug/L | 243   |  |  | 3.07  | 20 |  |         |
| Cadmium    | ND    | 0.12  | 0.40 | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Chromium   | ND    | 0.32  | 2.0  | ug/L | 0.671 |  |  |       | 20 |  | R-01, U |
| Cobalt     | 2.29  | 0.12  | 0.40 | ug/L | ND    |  |  |       | 20 |  |         |
| Copper     | 5.84  | 1.6   | 2.0  | ug/L | 6.22  |  |  | 6.32  | 20 |  |         |
| Iron       | 97.4  | 40    | 200  | ug/L | 92.8  |  |  | 4.83  | 20 |  | J       |
| Lead       | ND    | 0.24  | 1.0  | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Manganese  | 4.16  | 3.6   | 20   | ug/L | 4.21  |  |  | 1.20  | 20 |  | J       |
| Molybdenum | 2.51  | 0.28  | 1.0  | ug/L | 2.56  |  |  | 2.01  | 20 |  |         |
| Nickel     | ND    | 1.2   | 2.0  | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Selenium   | ND    | 0.80  | 8.0  | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Silver     | 0.578 | 0.20  | 0.40 | ug/L | ND    |  |  |       | 20 |  |         |
| Thallium   | ND    | 0.20  | 0.40 | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Vanadium   | ND    | 2.0   | 4.0  | ug/L | ND    |  |  |       | 20 |  | R-01, U |
| Zinc       | 9.95  | 8.0   | 20   | ug/L | 9.64  |  |  | 3.15  | 20 |  | R-01, J |



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 P8040CUCS

Reported:  
02/28/18 16:47

### 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 AB83531 - EPA 200.8

##### Matrix Spike (AB83531-MS1)

Source: 18B1266-01

Prepared: 02/20/18 Analyzed: 02/21/18

|            |      |       |      |      |      |       |      |        |  |  |  |
|------------|------|-------|------|------|------|-------|------|--------|--|--|--|
| Aluminum   | 525  | 20    | 40   | ug/L | 520  | ND    | 101  | 70-130 |  |  |  |
| Antimony   | 21.1 | 0.80  | 2.0  | ug/L | 20.0 | ND    | 105  | 70-130 |  |  |  |
| Arsenic    | 26.9 | 0.80  | 2.0  | ug/L | 20.0 | 6.51  | 102  | 70-130 |  |  |  |
| Barium     | 64.5 | 0.80  | 2.0  | ug/L | 20.0 | 45.3  | 96.0 | 70-130 |  |  |  |
| Beryllium  | 20.5 | 0.080 | 0.40 | ug/L | 20.0 | ND    | 102  | 70-130 |  |  |  |
| Boron      | 332  | 80    | 200  | ug/L | 100  | 243   | 88.5 | 70-130 |  |  |  |
| Cadmium    | 20.5 | 0.12  | 0.40 | ug/L | 20.0 | ND    | 103  | 70-130 |  |  |  |
| Chromium   | 20.1 | 0.32  | 2.0  | ug/L | 20.0 | 0.671 | 96.9 | 70-130 |  |  |  |
| Cobalt     | 22.1 | 0.12  | 0.40 | ug/L | 20.0 | ND    | 110  | 70-130 |  |  |  |
| Copper     | 23.0 | 1.6   | 2.0  | ug/L | 20.0 | 6.22  | 83.9 | 70-130 |  |  |  |
| Iron       | 615  | 40    | 200  | ug/L | 520  | 92.8  | 101  | 70-130 |  |  |  |
| Lead       | 19.8 | 0.24  | 1.0  | ug/L | 20.0 | ND    | 99.1 | 70-130 |  |  |  |
| Manganese  | 22.9 | 3.6   | 20   | ug/L | 20.0 | 4.21  | 93.3 | 70-130 |  |  |  |
| Molybdenum | 23.8 | 0.28  | 1.0  | ug/L | 20.0 | 2.56  | 106  | 70-130 |  |  |  |
| Nickel     | 20.6 | 1.2   | 2.0  | ug/L | 20.0 | ND    | 103  | 70-130 |  |  |  |
| Selenium   | 20.3 | 0.80  | 8.0  | ug/L | 20.0 | ND    | 102  | 70-130 |  |  |  |
| Silver     | 20.3 | 0.20  | 0.40 | ug/L | 20.0 | ND    | 102  | 70-130 |  |  |  |
| Thallium   | 19.5 | 0.20  | 0.40 | ug/L | 20.0 | ND    | 97.4 | 70-130 |  |  |  |
| Vanadium   | 18.9 | 2.0   | 4.0  | ug/L | 20.0 | ND    | 94.5 | 70-130 |  |  |  |
| Zinc       | 106  | 8.0   | 20   | ug/L | 100  | 9.64  | 96.7 | 70-130 |  |  |  |

##### Matrix Spike (AB83531-MS2)

Source: 18B1480-02

Prepared: 02/20/18 Analyzed: 02/21/18

|           |      |       |      |      |      |       |      |        |  |  |         |
|-----------|------|-------|------|------|------|-------|------|--------|--|--|---------|
| Aluminum  | 547  | 20    | 40   | ug/L | 520  | ND    | 105  | 70-130 |  |  |         |
| Antimony  | 21.2 | 0.80  | 2.0  | ug/L | 20.0 | ND    | 106  | 70-130 |  |  |         |
| Arsenic   | 20.2 | 0.80  | 2.0  | ug/L | 20.0 | ND    | 101  | 70-130 |  |  |         |
| Barium    | 20.6 | 0.80  | 2.0  | ug/L | 20.0 | ND    | 103  | 70-130 |  |  |         |
| Beryllium | 20.2 | 0.080 | 0.40 | ug/L | 20.0 | ND    | 101  | 70-130 |  |  |         |
| Boron     | 98.0 | 80    | 200  | ug/L | 100  | ND    | 98.0 | 70-130 |  |  | R-01, J |
| Cadmium   | 20.0 | 0.12  | 0.40 | ug/L | 20.0 | ND    | 100  | 70-130 |  |  |         |
| Chromium  | 20.5 | 0.32  | 2.0  | ug/L | 20.0 | 0.321 | 101  | 70-130 |  |  |         |
| Cobalt    | 20.8 | 0.12  | 0.40 | ug/L | 20.0 | 0.223 | 103  | 70-130 |  |  |         |
| Copper    | 24.6 | 1.6   | 2.0  | ug/L | 20.0 | ND    | 123  | 70-130 |  |  |         |
| Iron      | 534  | 40    | 200  | ug/L | 520  | ND    | 103  | 70-130 |  |  |         |
| Lead      | 20.2 | 0.24  | 1.0  | ug/L | 20.0 | ND    | 101  | 70-130 |  |  |         |
| Manganese | 19.8 | 3.6   | 20   | ug/L | 20.0 | ND    | 98.9 | 70-130 |  |  | R-01, J |

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 P8040CUCS

Reported:  
02/28/18 16:47

### 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 AB83531 - EPA 200.8

##### Matrix Spike (AB83531-MS2)

Source: 18B1480-02

Prepared: 02/20/18 Analyzed: 02/21/18

|            |      |      |      |      |      |       |      |        |  |  |  |
|------------|------|------|------|------|------|-------|------|--------|--|--|--|
| Molybdenum | 21.2 | 0.28 | 1.0  | ug/L | 20.0 | ND    | 106  | 70-130 |  |  |  |
| Nickel     | 20.5 | 1.2  | 2.0  | ug/L | 20.0 | ND    | 103  | 70-130 |  |  |  |
| Selenium   | 19.4 | 0.80 | 8.0  | ug/L | 20.0 | ND    | 96.8 | 70-130 |  |  |  |
| Silver     | 20.9 | 0.20 | 0.40 | ug/L | 20.0 | 0.209 | 103  | 70-130 |  |  |  |
| Thallium   | 20.4 | 0.20 | 0.40 | ug/L | 20.0 | ND    | 102  | 70-130 |  |  |  |
| Vanadium   | 19.6 | 2.0  | 4.0  | ug/L | 20.0 | ND    | 97.9 | 70-130 |  |  |  |
| Zinc       | 103  | 8.0  | 20   | ug/L | 100  | ND    | 103  | 70-130 |  |  |  |

##### Matrix Spike Dup (AB83531-MSD1)

Source: 18B1266-01

Prepared: 02/20/18 Analyzed: 02/21/18

|            |      |       |      |      |      |       |      |        |        |    |  |
|------------|------|-------|------|------|------|-------|------|--------|--------|----|--|
| Aluminum   | 543  | 20    | 40   | ug/L | 520  | ND    | 104  | 70-130 | 3.35   | 20 |  |
| Antimony   | 21.1 | 0.80  | 2.0  | ug/L | 20.0 | ND    | 105  | 70-130 | 0.0202 | 20 |  |
| Arsenic    | 27.5 | 0.80  | 2.0  | ug/L | 20.0 | 6.51  | 105  | 70-130 | 2.35   | 20 |  |
| Barium     | 65.0 | 0.80  | 2.0  | ug/L | 20.0 | 45.3  | 98.7 | 70-130 | 0.838  | 20 |  |
| Beryllium  | 20.7 | 0.080 | 0.40 | ug/L | 20.0 | ND    | 103  | 70-130 | 0.896  | 20 |  |
| Boron      | 336  | 80    | 200  | ug/L | 100  | 243   | 92.8 | 70-130 | 1.31   | 20 |  |
| Cadmium    | 20.8 | 0.12  | 0.40 | ug/L | 20.0 | ND    | 104  | 70-130 | 1.40   | 20 |  |
| Chromium   | 20.2 | 0.32  | 2.0  | ug/L | 20.0 | 0.671 | 97.9 | 70-130 | 0.979  | 20 |  |
| Cobalt     | 19.9 | 0.12  | 0.40 | ug/L | 20.0 | ND    | 99.7 | 70-130 | 10.0   | 20 |  |
| Copper     | 23.8 | 1.6   | 2.0  | ug/L | 20.0 | 6.22  | 87.7 | 70-130 | 3.24   | 20 |  |
| Iron       | 620  | 40    | 200  | ug/L | 520  | 92.8  | 101  | 70-130 | 0.716  | 20 |  |
| Lead       | 20.0 | 0.24  | 1.0  | ug/L | 20.0 | ND    | 99.9 | 70-130 | 0.859  | 20 |  |
| Manganese  | 23.4 | 3.6   | 20   | ug/L | 20.0 | 4.21  | 96.0 | 70-130 | 2.39   | 20 |  |
| Molybdenum | 24.0 | 0.28  | 1.0  | ug/L | 20.0 | 2.56  | 107  | 70-130 | 0.618  | 20 |  |
| Nickel     | 20.7 | 1.2   | 2.0  | ug/L | 20.0 | ND    | 104  | 70-130 | 0.786  | 20 |  |
| Selenium   | 20.1 | 0.80  | 8.0  | ug/L | 20.0 | ND    | 100  | 70-130 | 1.12   | 20 |  |
| Silver     | 20.3 | 0.20  | 0.40 | ug/L | 20.0 | ND    | 102  | 70-130 | 0.0400 | 20 |  |
| Thallium   | 19.8 | 0.20  | 0.40 | ug/L | 20.0 | ND    | 98.8 | 70-130 | 1.39   | 20 |  |
| Vanadium   | 20.1 | 2.0   | 4.0  | ug/L | 20.0 | ND    | 101  | 70-130 | 6.15   | 20 |  |
| Zinc       | 108  | 8.0   | 20   | ug/L | 100  | 9.64  | 98.1 | 70-130 | 1.32   | 20 |  |

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 P8040CUCS

Reported:  
02/28/18 16:47

### 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 AB83508 - General Preparation

##### Blank (AB83508-BLK1)

Prepared & Analyzed: 02/15/18

|                |    |       |      |      |  |  |  |  |  |  |  |   |
|----------------|----|-------|------|------|--|--|--|--|--|--|--|---|
| Fluoride       | ND | 0.070 | 0.10 | mg/L |  |  |  |  |  |  |  | U |
| 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 |

##### LCS (AB83508-BS1)

Prepared & Analyzed: 02/15/18

|                |      |       |      |      |      |  |     |        |  |  |  |  |
|----------------|------|-------|------|------|------|--|-----|--------|--|--|--|--|
| Fluoride       | 5.88 | 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 |  |  |  |  |
| Nitrite as NO2 | 18.7 | 0.20  | 1.0  | mg/L | 18.2 |  | 102 | 90-110 |  |  |  |  |
| Sulfate as SO4 | 22.7 | 0.20  | 0.50 | mg/L | 22.2 |  | 102 | 90-110 |  |  |  |  |

##### Duplicate (AB83508-DUP1)

Source: 18B1277-01

Prepared & Analyzed: 02/15/18

|                |      |       |      |      |  |      |  |  |       |    |  |   |
|----------------|------|-------|------|------|--|------|--|--|-------|----|--|---|
| Fluoride       | ND   | 0.070 | 0.10 | mg/L |  | ND   |  |  |       | 20 |  | U |
| Nitrite as NO2 | ND   | 0.20  | 1.0  | mg/L |  | ND   |  |  |       | 20 |  | U |
| Nitrate as NO3 | ND   | 0.20  | 1.0  | mg/L |  | ND   |  |  |       | 20 |  | U |
| Sulfate as SO4 | 1.55 | 0.20  | 0.50 | mg/L |  | 1.54 |  |  | 0.648 | 20 |  |   |

##### Matrix Spike (AB83508-MS1)

Source: 18B1277-01

Prepared & Analyzed: 02/15/18

|                |      |       |      |      |      |      |     |        |  |  |  |  |
|----------------|------|-------|------|------|------|------|-----|--------|--|--|--|--|
| Fluoride       | 6.19 | 0.070 | 0.10 | mg/L | 5.56 | ND   | 111 | 80-120 |  |  |  |  |
| Sulfate as SO4 | 26.0 | 0.20  | 0.50 | mg/L | 22.2 | 1.54 | 110 | 80-120 |  |  |  |  |
| Nitrate as NO3 | 27   | 0.20  | 1.0  | mg/L | 24.7 | ND   | 110 | 80-120 |  |  |  |  |
| Nitrite as NO2 | 20.0 | 0.20  | 1.0  | mg/L | 18.2 | ND   | 110 | 80-120 |  |  |  |  |

##### Matrix Spike (AB83508-MS2)

Source: 18B1290-01

Prepared & Analyzed: 02/15/18

|                |      |      |     |      |      |      |      |        |  |  |  |  |
|----------------|------|------|-----|------|------|------|------|--------|--|--|--|--|
| Fluoride       | 5.41 | 0.70 | 1.0 | mg/L | 5.56 | ND   | 97.4 | 80-120 |  |  |  |  |
| Sulfate as SO4 | 56.4 | 2.0  | 5.0 | mg/L | 22.2 | 35.3 | 94.8 | 80-120 |  |  |  |  |
| Nitrate as NO3 | 73   | 2.0  | 10  | mg/L | 24.7 | 48   | 102  | 80-120 |  |  |  |  |
| Nitrite as NO2 | 16.9 | 2.0  | 10  | mg/L | 18.2 | ND   | 92.7 | 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 P8040CUCS

Reported:  
02/28/18 16:47

**Anions by EPA Method 300.0 - Quality Control**

| Analyte | Result | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch AB83508 - General Preparation**

**Matrix Spike Dup (AB83508-MSD1)**

Source: 18B1277-01

Prepared & Analyzed: 02/15/18

|                |      |       |      |      |      |      |     |        |      |    |  |
|----------------|------|-------|------|------|------|------|-----|--------|------|----|--|
| Sulfate as SO4 | 24.4 | 0.20  | 0.50 | mg/L | 22.2 | 1.54 | 103 | 80-120 | 6.22 | 20 |  |
| Nitrate as NO3 | 25   | 0.20  | 1.0  | mg/L | 24.7 | ND   | 103 | 80-120 | 6.78 | 20 |  |
| Nitrite as NO2 | 18.7 | 0.20  | 1.0  | mg/L | 18.2 | ND   | 103 | 80-120 | 6.60 | 20 |  |
| Fluoride       | 5.80 | 0.070 | 0.10 | mg/L | 5.56 | ND   | 104 | 80-120 | 6.51 | 20 |  |





Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto: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 P8040CUCS

Reported:  
02/28/18 16:47

### 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-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



Laboratory & Corporate: 208 Mason Street, Ukiah, CA 95482  
707-468-0401 Fax: 707-468-5267

Service Center & Micro Lab: 6398 Dougherty Rd, Ste 35, Dublin, CA 94568  
925-828-6226 Fax: 925-828-6309

# Chain of Custody Record

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

Lab No. 1881277 Page      of     

|   |  |  |  |  |  |   |  |   |  |           |  |     |  |          |  |              |  |   |  |                                     |  |   |  |           |  |   |  |
|---|--|--|--|--|--|---|--|---|--|-----------|--|-----|--|----------|--|--------------|--|---|--|-------------------------------------|--|---|--|-----------|--|---|--|
| <b>Report to:</b><br>Company: Sample Traps LLC<br>Attn: Quality Control Manager<br>Address:<br>Phone/Fax:<br>Email Address: admin@sampletraps.com |  | <b>Invoice to (if different):</b><br>Company:<br>Attn:<br>Address:<br>Phone/Fax:<br>Email Address: |  | <b>Project Info for Report:</b><br>Project ID: QC- 4oz WM poly<br>Project No: Lot number P8040CUCS<br>PO/Reference : |  | Signature below authorizes work under terms stated on reverse side. |  |   |  |           |  |     |  |          |  |              |  |   |  |                                     |  |   |  |           |  |   |  |
| Samplers Signature: <span style="font-size: 2em; font-weight: bold;">N/A</span><br>Print:   |  | Container:   |  | Preservative:  |  | Matrix:   |  | <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample Traps Inorganics</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">include MDL j-flags</div> </div> |  |           |  |     |  |          |  |              |  | <b>Analyses Requested</b>   |  | <b>TAT</b>                          |  | <b>Sample Notes</b><br>(lab use only)   |  |           |  |   |  |
|   |  |  |  |  |  |   |  |   |  |           |  |     |  |          |  |              |  | 10 days <input checked="" type="radio"/><br>5 days <input type="radio"/><br>48 hours <input type="radio"/><br>Other: <input type="radio"/> days |  | Lab Approval Required For Rush TATs |  | Temperature:<br><br>deg. C<br>Shipment Method:<br><br>Custody Seals:<br>Y / N |  |           |  |   |  |
| <b>Sample Identification</b>  |  | <b>Sampled:</b><br>Date      Time  |  | 40ml VOA   |  | Poly  |  | Glass bottle  |  | Glass Jar |  | HCL |  | Methanol |  | Na Bisulfate |  | Other   |  | None                                |  | Water   |  | Container |  | <b>Sample Notes or CDPH Source Numbers:</b> |  |
| P8040CUCS   |  | x      x   |  | x  |  |   |  |   |  |           |  |     |  |          |  |              |  | x   |  | x                                   |  | 12  |  | x         |  |   |  |
| Relinquished by:  |  | Received by:   |  | Date:  |  | Time:   |  | CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No  |  |           |  |     |  |          |  |              |  |   |  |                                     |  |   |  |           |  |   |  |
| Par BAL   |  |  |  | 2-14-18  |  | 1200  |  | State System Number: _____<br>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: _____ Sampling Company Log Code: _____   |  |           |  |     |  |          |  |              |  |   |  |                                     |  |   |  |           |  |   |  |
|   |  |  |  |  |  |   |  | EDF to (Email Address): _____<br>Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____   |  |           |  |     |  |          |  |              |  |   |  |                                     |  |   |  |           |  |   |  |