



*Alpha*

Alpha Analytical Laboratories, Inc.

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

07 January 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 8oz WM Poly

Work Order: 18L1888

Enclosed are the results of analyses for samples received by the laboratory on 12/17/18 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. email: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)  
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 8oz WM Poly  
Project Number: Lot Number I8339CUCS

Reported:  
01/07/19 08:03

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728  
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922  
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303  
San Diego Service Center: 2722 Loker Avenue West | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| I8339CUCS | 18L1888-01    | Water  | 12/17/18 00:00 | 12/17/18 07:30 |



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I8339CUCS

Reported:  
 01/07/19 08:03

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

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

**I8339CUCS (18L1888-01) Water** Sampled: 12/17/18 00:00 Received: 12/17/18 07:30

|           |    |       |     |      |   |         |                |                |           |     |   |
|-----------|----|-------|-----|------|---|---------|----------------|----------------|-----------|-----|---|
| Calcium   | ND | 0.080 | 1.0 | mg/L | 1 | AL84080 | 12/26/18 14:15 | 01/03/19 16:34 | EPA 200.7 | MAM | U |
| Magnesium | ND | 0.030 | 1.0 | mg/L | 1 | AL84080 | 12/26/18 14:15 | 01/03/19 16:34 | EPA 200.7 | MAM | U |
| Potassium | ND | 0.090 | 1.0 | mg/L | 1 | AL84080 | 12/26/18 14:15 | 01/03/19 16:34 | EPA 200.7 | MAM | U |
| Sodium    | ND | 0.40  | 1.0 | mg/L | 1 | AL84080 | 12/26/18 14:15 | 01/03/19 16:34 | EPA 200.7 | MAM | U |



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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 8oz WM Poly  
Project Number: Lot Number I8339CUCS

Reported:  
01/07/19 08:03

### Metals by EPA 200 Series Methods

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

**I8339CUCS (18L1888-01) Water**    **Sampled: 12/17/18 00:00**    **Received: 12/17/18 07:30**

|         |    |       |       |      |   |         |                |                |           |     |   |
|---------|----|-------|-------|------|---|---------|----------------|----------------|-----------|-----|---|
| Mercury | ND | 0.020 | 0.020 | ug/L | 1 | AL84127 | 12/20/18 07:08 | 12/20/18 15:26 | EPA 245.1 | LMR | U |
| Tin     | ND | 0.050 | 0.050 | mg/L | 1 | AL84080 | 12/26/18 14:15 | 01/03/19 16:34 | EPA 200.7 | MAM | U |



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I8339CUCS

Reported:  
 01/07/19 08:03

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

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

**I8339CUCS (18L1888-01) Water** Sampled: 12/17/18 00:00 Received: 12/17/18 07:30

|               |            |             |             |             |   |         |                |                |           |     |   |
|---------------|------------|-------------|-------------|-------------|---|---------|----------------|----------------|-----------|-----|---|
| Aluminum      | ND         | 5.0         | 10          | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Antimony      | ND         | 0.20        | 0.50        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Arsenic       | ND         | 0.20        | 0.50        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Barium        | ND         | 0.20        | 0.50        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Beryllium     | ND         | 0.050       | 0.10        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Boron         | ND         | 20          | 50          | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Cadmium       | ND         | 0.060       | 0.10        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Chromium      | ND         | 0.50        | 0.50        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Cobalt        | ND         | 0.10        | 0.10        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| <b>Copper</b> | <b>1.6</b> | <b>0.40</b> | <b>0.50</b> | <b>ug/L</b> | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA |   |
| Iron          | ND         | 10          | 50          | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Lead          | ND         | 0.060       | 0.25        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Manganese     | ND         | 2.0         | 5.0         | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Molybdenum    | ND         | 0.070       | 0.25        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| <b>Nickel</b> | <b>1.3</b> | <b>0.30</b> | <b>0.50</b> | <b>ug/L</b> | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA |   |
| Selenium      | ND         | 0.30        | 2.0         | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Silver        | ND         | 0.050       | 0.10        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Thallium      | ND         | 0.050       | 0.10        | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Vanadium      | ND         | 0.50        | 1.0         | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |
| Zinc          | ND         | 2.0         | 5.0         | ug/L        | 1 | AL84279 | 12/27/18 07:45 | 01/02/19 14:41 | EPA 200.8 | JRA | U |



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|   |  |                             |
|---|--|-----------------------------|
| Sample Traps, LLC<br>262 Rickenbacker Circle<br>Livermore CA, 94551 | Project Manager: Quality Control Manager<br>Project: QC- 8oz WM Poly<br>Project Number: Lot Number I8339CUCS | Reported:<br>01/07/19 08:03 |
|---|--|-----------------------------|

**Anions by EPA Method 300.0**

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

**I8339CUCS (18L1888-01) Water    Sampled: 12/17/18 00:00    Received: 12/17/18 07:30**

|                |    |       |      |      |   |         |                |                |           |     |   |
|----------------|----|-------|------|------|---|---------|----------------|----------------|-----------|-----|---|
| Fluoride       | ND | 0.070 | 0.10 | mg/L | 1 | AL83978 | 12/18/18 11:39 | 12/18/18 11:39 | EPA 300.0 | SMP | U |
| Nitrate as NO3 | ND | 0.20  | 1.0  | mg/L | 1 | AL83978 | 12/18/18 11:39 | 12/18/18 11:39 | EPA 300.0 | SMP | U |
| Nitrite as NO2 | ND | 0.20  | 1.0  | mg/L | 1 | AL83978 | 12/18/18 11:39 | 12/18/18 11:39 | EPA 300.0 | SMP | U |
| Sulfate as SO4 | ND | 0.20  | 0.50 | mg/L | 1 | AL83978 | 12/18/18 11:39 | 12/18/18 11:39 | EPA 300.0 | SMP | U |



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|---|--|-----------------------------|

**Metals (Drinking Water) by EPA 200 Series Methods - Quality Control**

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

**Batch AL84080 - Metals Digest**

| <b>Blank (AL84080-BLK1)</b> |    |       |     |      |  |                                       |  |  |  |  |   |
|-----------------------------|----|-------|-----|------|--|---------------------------------------|--|--|--|--|---|
|                             |    |       |     |      |  | Prepared: 12/26/18 Analyzed: 01/02/19 |  |  |  |  |   |
| 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 |

| <b>LCS (AL84080-BS1)</b> |      |       |     |      |      |                                       |      |        |  |  |  |
|--------------------------|------|-------|-----|------|------|---------------------------------------|------|--------|--|--|--|
|                          |      |       |     |      |      | Prepared: 12/26/18 Analyzed: 01/02/19 |      |        |  |  |  |
| Calcium                  | 8.12 | 0.080 | 1.0 | mg/L | 8.00 |                                       | 102  | 85-115 |  |  |  |
| Magnesium                | 8.34 | 0.030 | 1.0 | mg/L | 8.00 |                                       | 104  | 85-115 |  |  |  |
| Potassium                | 7.63 | 0.090 | 1.0 | mg/L | 8.00 |                                       | 95.3 | 85-115 |  |  |  |
| Sodium                   | 8.20 | 0.40  | 1.0 | mg/L | 8.00 |                                       | 103  | 85-115 |  |  |  |

| <b>Duplicate (AL84080-DUP1)</b> |      |       |                           |      |  |                                       |  |  |       |    |  |
|---------------------------------|------|-------|---------------------------|------|--|---------------------------------------|--|--|-------|----|--|
|                                 |      |       | <b>Source: 18L1772-01</b> |      |  | Prepared: 12/26/18 Analyzed: 01/02/19 |  |  |       |    |  |
| Calcium                         | 70.9 | 0.080 | 1.0                       | mg/L |  | 70.6                                  |  |  | 0.404 | 20 |  |
| Magnesium                       | 40.6 | 0.030 | 1.0                       | mg/L |  | 40.3                                  |  |  | 0.623 | 20 |  |
| Potassium                       | 2.78 | 0.090 | 1.0                       | mg/L |  | 2.75                                  |  |  | 1.28  | 20 |  |
| Sodium                          | 36.0 | 0.40  | 1.0                       | mg/L |  | 35.8                                  |  |  | 0.338 | 20 |  |

| <b>Matrix Spike (AL84080-MS1)</b> |      |       |                           |      |      |                                       |     |        |  |  |       |
|-----------------------------------|------|-------|---------------------------|------|------|---------------------------------------|-----|--------|--|--|-------|
|                                   |      |       | <b>Source: 18L1772-01</b> |      |      | Prepared: 12/26/18 Analyzed: 01/02/19 |     |        |  |  |       |
| Calcium                           | 82.4 | 0.080 | 1.0                       | mg/L | 8.00 | 70.6                                  | 148 | 70-130 |  |  | QM-4X |
| Magnesium                         | 50.7 | 0.030 | 1.0                       | mg/L | 8.00 | 40.3                                  | 130 | 70-130 |  |  |       |
| Potassium                         | 10.8 | 0.090 | 1.0                       | mg/L | 8.00 | 2.75                                  | 101 | 70-130 |  |  |       |
| Sodium                            | 46.1 | 0.40  | 1.0                       | mg/L | 8.00 | 35.8                                  | 128 | 70-130 |  |  |       |

| <b>Matrix Spike (AL84080-MS2)</b> |      |       |                           |      |      |                                       |      |        |  |  |  |
|-----------------------------------|------|-------|---------------------------|------|------|---------------------------------------|------|--------|--|--|--|
|                                   |      |       | <b>Source: 18L2065-01</b> |      |      | Prepared: 12/26/18 Analyzed: 01/02/19 |      |        |  |  |  |
| Calcium                           | 13.3 | 0.080 | 1.0                       | mg/L | 8.00 | 5.18                                  | 102  | 70-130 |  |  |  |
| Magnesium                         | 31.3 | 0.030 | 1.0                       | mg/L | 8.00 | 22.9                                  | 105  | 70-130 |  |  |  |
| Potassium                         | 8.24 | 0.090 | 1.0                       | mg/L | 8.00 | 0.528                                 | 96.4 | 70-130 |  |  |  |
| Sodium                            | 10.5 | 0.40  | 1.0                       | mg/L | 8.00 | 1.81                                  | 109  | 70-130 |  |  |  |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I8339CUCS

Reported:  
 01/07/19 08:03

**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 AL84080 - Metals Digest**

**Matrix Spike Dup (AL84080-MSD1)**

Source: 18L1772-01

Prepared: 12/26/18 Analyzed: 01/02/19

|           |      |       |     |      |      |      |      |        |      |    |  |
|-----------|------|-------|-----|------|------|------|------|--------|------|----|--|
| Calcium   | 78.2 | 0.080 | 1.0 | mg/L | 8.00 | 70.6 | 95.4 | 70-130 | 5.26 | 20 |  |
| Magnesium | 49.1 | 0.030 | 1.0 | mg/L | 8.00 | 40.3 | 109  | 70-130 | 3.29 | 20 |  |
| Potassium | 10.6 | 0.090 | 1.0 | mg/L | 8.00 | 2.75 | 98.0 | 70-130 | 2.18 | 20 |  |
| Sodium    | 44.1 | 0.40  | 1.0 | mg/L | 8.00 | 35.8 | 103  | 70-130 | 4.38 | 20 |  |





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Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I8339CUCS

Reported:  
 01/07/19 08:03

**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 AL84080 - Metals Digest**

|  |       |       |       |      |  |    |      |        |      |    |   |
|--|-------|-------|-------|------|--|----|------|--------|------|----|---|
| <b>Blank (AL84080-BLK1)</b>            |       |       |       |      | Prepared: 12/26/18 Analyzed: 01/02/19                    |    |      |        |      |    |   |
| Tin                                    | ND    | 0.050 | 0.050 | mg/L |  |    |      |        |      |    | U |
| <b>LCS (AL84080-BS1)</b>               |       |       |       |      | Prepared: 12/26/18 Analyzed: 01/02/19                    |    |      |        |      |    |   |
| Tin                                    | 0.177 | 0.050 | 0.050 | mg/L | 0.200  |    | 88.7 | 85-115 |      |    |   |
| <b>Duplicate (AL84080-DUP1)</b>        |       |       |       |      | Source: 18L1772-01 Prepared: 12/26/18 Analyzed: 01/02/19 |    |      |        |      |    |   |
| Tin                                    | ND    | 0.050 | 0.050 | mg/L |  | ND |      |        |      | 20 | U |
| <b>Matrix Spike (AL84080-MS1)</b>      |       |       |       |      | Source: 18L1772-01 Prepared: 12/26/18 Analyzed: 01/02/19 |    |      |        |      |    |   |
| Tin                                    | 0.187 | 0.050 | 0.050 | mg/L | 0.200  | ND | 93.3 | 70-130 |      |    |   |
| <b>Matrix Spike (AL84080-MS2)</b>      |       |       |       |      | Source: 18L2065-01 Prepared: 12/26/18 Analyzed: 01/02/19 |    |      |        |      |    |   |
| Tin                                    | 0.182 | 0.050 | 0.050 | mg/L | 0.200  | ND | 90.9 | 70-130 |      |    |   |
| <b>Matrix Spike Dup (AL84080-MSD1)</b> |       |       |       |      | Source: 18L1772-01 Prepared: 12/26/18 Analyzed: 01/02/19 |    |      |        |      |    |   |
| Tin                                    | 0.181 | 0.050 | 0.050 | mg/L | 0.200  | ND | 90.4 | 70-130 | 3.09 | 20 |   |

**Batch AL84127 - EPA 245.1 Hg Water**

|                                 |       |       |       |      |  |    |     |        |  |    |   |
|---------------------------------|-------|-------|-------|------|--|----|-----|--------|--|----|---|
| <b>Blank (AL84127-BLK1)</b>     |       |       |       |      | Prepared & Analyzed: 12/20/18                    |    |     |        |  |    |   |
| Mercury                         | ND    | 0.020 | 0.020 | ug/L |  |    |     |        |  |    | U |
| <b>LCS (AL84127-BS1)</b>        |       |       |       |      | Prepared & Analyzed: 12/20/18                    |    |     |        |  |    |   |
| Mercury                         | 0.250 | 0.020 | 0.020 | ug/L | 0.250  |    | 100 | 85-115 |  |    |   |
| <b>Duplicate (AL84127-DUP1)</b> |       |       |       |      | Source: 18L1613-02 Prepared & Analyzed: 12/20/18 |    |     |        |  |    |   |
| Mercury                         | ND    | 0.020 | 0.020 | ug/L |  | ND |     |        |  | 20 | U |



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|---|--|-----------------------------|

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

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

**Batch AL84127 - EPA 245.1 Hg Water**

|  |       |                           |       |      |                               |    |      |        |      |    |  |
|--|-------|---------------------------|-------|------|-------------------------------|----|------|--------|------|----|--|
| <b>Matrix Spike (AL84127-MS1)</b>      |       | <b>Source: 18L1613-02</b> |       |      | Prepared & Analyzed: 12/20/18 |    |      |        |      |    |  |
| Mercury                                | 0.275 | 0.020                     | 0.020 | ug/L | 0.250                         | ND | 110  | 70-130 |      |    |  |
| <b>Matrix Spike Dup (AL84127-MSD1)</b> |       | <b>Source: 18L1613-02</b> |       |      | Prepared & Analyzed: 12/20/18 |    |      |        |      |    |  |
| Mercury                                | 0.239 | 0.020                     | 0.020 | ug/L | 0.250                         | ND | 95.6 | 70-130 | 14.0 | 20 |  |



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|   |  |                             |
|---|--|-----------------------------|
| Sample Traps, LLC<br>262 Rickenbacker Circle<br>Livermore CA, 94551 | Project Manager: Quality Control Manager<br>Project: QC- 8oz WM Poly<br>Project Number: Lot Number I8339CUCS | Reported:<br>01/07/19 08:03 |
|---|--|-----------------------------|

**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 AL84279 - EPA 200.8**

**Blank (AL84279-BLK1)**

Prepared: 12/27/18 Analyzed: 01/02/19

|            |       |       |      |      |  |  |  |  |  |  |   |
|------------|-------|-------|------|------|--|--|--|--|--|--|---|
| Aluminum   | ND    | 5.0   | 10   | ug/L |  |  |  |  |  |  | U |
| Antimony   | ND    | 0.20  | 0.50 | ug/L |  |  |  |  |  |  | U |
| Arsenic    | ND    | 0.20  | 0.50 | ug/L |  |  |  |  |  |  | U |
| Barium     | ND    | 0.20  | 0.50 | ug/L |  |  |  |  |  |  | U |
| Beryllium  | ND    | 0.050 | 0.10 | ug/L |  |  |  |  |  |  | U |
| Boron      | ND    | 20    | 50   | ug/L |  |  |  |  |  |  | U |
| Cadmium    | ND    | 0.060 | 0.10 | ug/L |  |  |  |  |  |  | U |
| Chromium   | ND    | 0.50  | 0.50 | ug/L |  |  |  |  |  |  | U |
| Cobalt     | ND    | 0.10  | 0.10 | ug/L |  |  |  |  |  |  | U |
| Copper     | 0.463 | 0.40  | 0.50 | ug/L |  |  |  |  |  |  | J |
| 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       | 3.62  | 2.0   | 5.0  | ug/L |  |  |  |  |  |  | J |

**LCS (AL84279-BS1)**

Prepared: 12/27/18 Analyzed: 01/02/19

|            |      |       |      |      |      |  |      |        |  |  |  |
|------------|------|-------|------|------|------|--|------|--------|--|--|--|
| Aluminum   | 500  | 5.0   | 10   | ug/L | 520  |  | 96.1 | 85-115 |  |  |  |
| Antimony   | 19.3 | 0.20  | 0.50 | ug/L | 20.0 |  | 96.3 | 85-115 |  |  |  |
| Arsenic    | 19.7 | 0.20  | 0.50 | ug/L | 20.0 |  | 98.7 | 85-115 |  |  |  |
| Barium     | 19.0 | 0.20  | 0.50 | ug/L | 20.0 |  | 95.2 | 85-115 |  |  |  |
| Beryllium  | 19.9 | 0.050 | 0.10 | ug/L | 20.0 |  | 99.3 | 85-115 |  |  |  |
| Boron      | 90.7 | 20    | 50   | ug/L | 100  |  | 90.7 | 85-115 |  |  |  |
| Cadmium    | 19.0 | 0.060 | 0.10 | ug/L | 20.0 |  | 95.1 | 85-115 |  |  |  |
| Chromium   | 19.4 | 0.50  | 0.50 | ug/L | 20.0 |  | 97.0 | 85-115 |  |  |  |
| Cobalt     | 19.1 | 0.10  | 0.10 | ug/L | 20.0 |  | 95.6 | 85-115 |  |  |  |
| Copper     | 20.3 | 0.40  | 0.50 | ug/L | 20.0 |  | 101  | 85-115 |  |  |  |
| Iron       | 470  | 10    | 50   | ug/L | 520  |  | 90.3 | 85-115 |  |  |  |
| Lead       | 18.8 | 0.060 | 0.25 | ug/L | 20.0 |  | 94.2 | 85-115 |  |  |  |
| Manganese  | 19.1 | 2.0   | 5.0  | ug/L | 20.0 |  | 95.4 | 85-115 |  |  |  |
| Molybdenum | 19.1 | 0.070 | 0.25 | ug/L | 20.0 |  | 95.7 | 85-115 |  |  |  |
| Nickel     | 19.6 | 0.30  | 0.50 | ug/L | 20.0 |  | 97.9 | 85-115 |  |  |  |

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|   |  |                             |
|---|--|-----------------------------|
| Sample Traps, LLC<br>262 Rickenbacker Circle<br>Livermore CA, 94551 | Project Manager: Quality Control Manager<br>Project: QC- 8oz WM Poly<br>Project Number: Lot Number I8339CUCS | Reported:<br>01/07/19 08:03 |
|---|--|-----------------------------|

**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 AL84279 - EPA 200.8**

**LCS (AL84279-BS1)**

Prepared: 12/27/18 Analyzed: 01/02/19

|          |      |       |      |      |      |  |      |        |  |  |  |
|----------|------|-------|------|------|------|--|------|--------|--|--|--|
| Selenium | 19.6 | 0.30  | 2.0  | ug/L | 20.0 |  | 97.9 | 85-115 |  |  |  |
| Silver   | 18.9 | 0.050 | 0.10 | ug/L | 20.0 |  | 94.4 | 85-115 |  |  |  |
| Thallium | 18.8 | 0.050 | 0.10 | ug/L | 20.0 |  | 94.0 | 85-115 |  |  |  |
| Vanadium | 19.5 | 0.50  | 1.0  | ug/L | 20.0 |  | 97.4 | 85-115 |  |  |  |
| Zinc     | 92.2 | 2.0   | 5.0  | ug/L | 100  |  | 92.2 | 85-115 |  |  |  |

**Duplicate (AL84279-DUP1)**

Source: 18L2325-01

Prepared: 12/27/18 Analyzed: 01/02/19

|            |       |      |      |      |  |      |  |  |       |    |         |
|------------|-------|------|------|------|--|------|--|--|-------|----|---------|
| Aluminum   | 20.6  | 20   | 40   | ug/L |  | ND   |  |  | 200   | 20 | J       |
| Antimony   | ND    | 0.80 | 2.0  | ug/L |  | ND   |  |  |       | 20 | R-01, U |
| Arsenic    | 0.890 | 0.80 | 2.0  | ug/L |  | ND   |  |  | 200   | 20 | J       |
| Barium     | 260   | 0.80 | 2.0  | ug/L |  | 259  |  |  | 0.482 | 20 |         |
| Beryllium  | ND    | 0.20 | 0.40 | ug/L |  | ND   |  |  |       | 20 | U       |
| Boron      | 255   | 80   | 200  | ug/L |  | 253  |  |  | 0.899 | 20 |         |
| Cadmium    | ND    | 0.24 | 0.40 | ug/L |  | ND   |  |  |       | 20 | U       |
| Chromium   | ND    | 2.0  | 2.0  | ug/L |  | ND   |  |  |       | 20 | U       |
| Cobalt     | ND    | 0.40 | 0.40 | ug/L |  | ND   |  |  |       | 20 | U       |
| Copper     | 7.93  | 1.6  | 2.0  | ug/L |  | 8.82 |  |  | 10.6  | 20 |         |
| Iron       | 94.5  | 40   | 200  | ug/L |  | 89.6 |  |  | 5.33  | 20 | R-01, J |
| Lead       | ND    | 0.24 | 1.0  | ug/L |  | ND   |  |  |       | 20 | R-01, U |
| Manganese  | 53.8  | 8.0  | 20   | ug/L |  | 53.7 |  |  | 0.191 | 20 |         |
| Molybdenum | 3.44  | 0.28 | 1.0  | ug/L |  | 3.45 |  |  | 0.376 | 20 |         |
| Nickel     | 2.67  | 1.2  | 2.0  | ug/L |  | 2.67 |  |  | 0.249 | 20 |         |
| Selenium   | ND    | 1.2  | 8.0  | ug/L |  | ND   |  |  |       | 20 | R-01, U |
| Silver     | ND    | 0.20 | 0.40 | ug/L |  | ND   |  |  |       | 20 | U       |
| Thallium   | ND    | 0.20 | 0.40 | ug/L |  | ND   |  |  |       | 20 | R-01, U |
| Vanadium   | ND    | 2.0  | 4.0  | ug/L |  | 2.03 |  |  | 200   | 20 | U       |
| Zinc       | ND    | 8.0  | 20   | ug/L |  | ND   |  |  |       | 20 | R-01, U |



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|   |  |                             |
|---|--|-----------------------------|
| Sample Traps, LLC<br>262 Rickenbacker Circle<br>Livermore CA, 94551 | Project Manager: Quality Control Manager<br>Project: QC- 8oz WM Poly<br>Project Number: Lot Number I8339CUCS | Reported:<br>01/07/19 08:03 |
|---|--|-----------------------------|

**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 AL84279 - EPA 200.8**

| Matrix Spike (AL84279-MS1) | Source: 18L2325-01 |      |      | Prepared: 12/27/18 Analyzed: 01/02/19 |      |      |      |        |  |  |  |
|----------------------------|--------------------|------|------|---------------------------------------|------|------|------|--------|--|--|--|
| Aluminum                   | 501                | 20   | 40   | ug/L                                  | 520  | ND   | 96.3 | 70-130 |  |  |  |
| Antimony                   | 19.7               | 0.80 | 2.0  | ug/L                                  | 20.0 | ND   | 98.4 | 70-130 |  |  |  |
| Arsenic                    | 20.1               | 0.80 | 2.0  | ug/L                                  | 20.0 | ND   | 100  | 70-130 |  |  |  |
| Barium                     | 280                | 0.80 | 2.0  | ug/L                                  | 20.0 | 259  | 106  | 70-130 |  |  |  |
| Beryllium                  | 20.0               | 0.20 | 0.40 | ug/L                                  | 20.0 | ND   | 99.9 | 70-130 |  |  |  |
| Boron                      | 347                | 80   | 200  | ug/L                                  | 100  | 253  | 93.6 | 70-130 |  |  |  |
| Cadmium                    | 18.8               | 0.24 | 0.40 | ug/L                                  | 20.0 | ND   | 93.8 | 70-130 |  |  |  |
| Chromium                   | 19.9               | 2.0  | 2.0  | ug/L                                  | 20.0 | ND   | 99.3 | 70-130 |  |  |  |
| Cobalt                     | 18.3               | 0.40 | 0.40 | ug/L                                  | 20.0 | ND   | 91.5 | 70-130 |  |  |  |
| Copper                     | 26.9               | 1.6  | 2.0  | ug/L                                  | 20.0 | 8.82 | 90.3 | 70-130 |  |  |  |
| Iron                       | 559                | 40   | 200  | ug/L                                  | 520  | 89.6 | 90.2 | 70-130 |  |  |  |
| Lead                       | 18.2               | 0.24 | 1.0  | ug/L                                  | 20.0 | ND   | 91.2 | 70-130 |  |  |  |
| Manganese                  | 71.1               | 8.0  | 20   | ug/L                                  | 20.0 | 53.7 | 87.3 | 70-130 |  |  |  |
| Molybdenum                 | 23.1               | 0.28 | 1.0  | ug/L                                  | 20.0 | 3.45 | 98.5 | 70-130 |  |  |  |
| Nickel                     | 21.3               | 1.2  | 2.0  | ug/L                                  | 20.0 | 2.67 | 92.9 | 70-130 |  |  |  |
| Selenium                   | 19.2               | 1.2  | 8.0  | ug/L                                  | 20.0 | ND   | 95.8 | 70-130 |  |  |  |
| Silver                     | 18.5               | 0.20 | 0.40 | ug/L                                  | 20.0 | ND   | 92.7 | 70-130 |  |  |  |
| Thallium                   | 18.2               | 0.20 | 0.40 | ug/L                                  | 20.0 | ND   | 90.8 | 70-130 |  |  |  |
| Vanadium                   | 22.1               | 2.0  | 4.0  | ug/L                                  | 20.0 | 2.03 | 100  | 70-130 |  |  |  |
| Zinc                       | 97.7               | 8.0  | 20   | ug/L                                  | 100  | ND   | 97.7 | 70-130 |  |  |  |

| Matrix Spike (AL84279-MS2) | Source: 18L1888-01 |       |      | Prepared: 12/27/18 Analyzed: 01/02/19 |      |      |      |        |  |  |  |
|----------------------------|--------------------|-------|------|---------------------------------------|------|------|------|--------|--|--|--|
| Aluminum                   | 511                | 5.0   | 10   | ug/L                                  | 520  | ND   | 98.2 | 70-130 |  |  |  |
| Antimony                   | 19.3               | 0.20  | 0.50 | ug/L                                  | 20.0 | ND   | 96.4 | 70-130 |  |  |  |
| Arsenic                    | 19.4               | 0.20  | 0.50 | ug/L                                  | 20.0 | ND   | 97.2 | 70-130 |  |  |  |
| Barium                     | 19.2               | 0.20  | 0.50 | ug/L                                  | 20.0 | ND   | 96.2 | 70-130 |  |  |  |
| Beryllium                  | 19.5               | 0.050 | 0.10 | ug/L                                  | 20.0 | ND   | 97.4 | 70-130 |  |  |  |
| Boron                      | 99.3               | 20    | 50   | ug/L                                  | 100  | ND   | 99.3 | 70-130 |  |  |  |
| Cadmium                    | 18.7               | 0.060 | 0.10 | ug/L                                  | 20.0 | ND   | 93.3 | 70-130 |  |  |  |
| Chromium                   | 19.2               | 0.50  | 0.50 | ug/L                                  | 20.0 | ND   | 95.8 | 70-130 |  |  |  |
| Cobalt                     | 19.0               | 0.10  | 0.10 | ug/L                                  | 20.0 | ND   | 95.0 | 70-130 |  |  |  |
| Copper                     | 19.7               | 0.40  | 0.50 | ug/L                                  | 20.0 | 1.65 | 90.2 | 70-130 |  |  |  |
| Iron                       | 460                | 10    | 50   | ug/L                                  | 520  | ND   | 88.5 | 70-130 |  |  |  |
| Lead                       | 19.1               | 0.060 | 0.25 | ug/L                                  | 20.0 | ND   | 95.7 | 70-130 |  |  |  |
| Manganese                  | 19.1               | 2.0   | 5.0  | ug/L                                  | 20.0 | ND   | 95.4 | 70-130 |  |  |  |
| Molybdenum                 | 19.4               | 0.070 | 0.25 | ug/L                                  | 20.0 | ND   | 96.8 | 70-130 |  |  |  |
| Nickel                     | 19.5               | 0.30  | 0.50 | ug/L                                  | 20.0 | 1.29 | 90.9 | 70-130 |  |  |  |

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|   |  |                             |
|---|--|-----------------------------|
| Sample Traps, LLC<br>262 Rickenbacker Circle<br>Livermore CA, 94551 | Project Manager: Quality Control Manager<br>Project: QC- 8oz WM Poly<br>Project Number: Lot Number I8339CUCS | Reported:<br>01/07/19 08:03 |
|---|--|-----------------------------|

**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 AL84279 - EPA 200.8**

| <b>Matrix Spike (AL84279-MS2)</b> |      | <b>Source: 18L1888-01</b> |      |      | <b>Prepared: 12/27/18</b> |    | <b>Analyzed: 01/02/19</b> |        |
|-----------------------------------|------|---------------------------|------|------|---------------------------|----|---------------------------|--------|
| Selenium                          | 19.3 | 0.30                      | 2.0  | ug/L | 20.0                      | ND | 96.3                      | 70-130 |
| Silver                            | 19.0 | 0.050                     | 0.10 | ug/L | 20.0                      | ND | 95.0                      | 70-130 |
| Thallium                          | 19.2 | 0.050                     | 0.10 | ug/L | 20.0                      | ND | 96.1                      | 70-130 |
| Vanadium                          | 19.6 | 0.50                      | 1.0  | ug/L | 20.0                      | ND | 98.2                      | 70-130 |
| Zinc                              | 92.0 | 2.0                       | 5.0  | ug/L | 100                       | ND | 92.0                      | 70-130 |

| <b>Matrix Spike Dup (AL84279-MSD1)</b> |      | <b>Source: 18L2325-01</b> |      |      | <b>Prepared: 12/27/18</b> |      | <b>Analyzed: 01/02/19</b> |        |        |    |
|--|------|---------------------------|------|------|---------------------------|------|---------------------------|--------|--------|----|
| Aluminum                               | 499  | 20                        | 40   | ug/L | 520                       | ND   | 95.9                      | 70-130 | 0.350  | 20 |
| Antimony                               | 19.5 | 0.80                      | 2.0  | ug/L | 20.0                      | ND   | 97.7                      | 70-130 | 0.683  | 20 |
| Arsenic                                | 20.4 | 0.80                      | 2.0  | ug/L | 20.0                      | ND   | 102                       | 70-130 | 1.51   | 20 |
| Barium                                 | 282  | 0.80                      | 2.0  | ug/L | 20.0                      | 259  | 117                       | 70-130 | 0.763  | 20 |
| Beryllium                              | 19.8 | 0.20                      | 0.40 | ug/L | 20.0                      | ND   | 98.9                      | 70-130 | 1.06   | 20 |
| Boron                                  | 348  | 80                        | 200  | ug/L | 100                       | 253  | 95.4                      | 70-130 | 0.531  | 20 |
| Cadmium                                | 18.5 | 0.24                      | 0.40 | ug/L | 20.0                      | ND   | 92.4                      | 70-130 | 1.53   | 20 |
| Chromium                               | 19.8 | 2.0                       | 2.0  | ug/L | 20.0                      | ND   | 99.2                      | 70-130 | 0.183  | 20 |
| Cobalt                                 | 18.6 | 0.40                      | 0.40 | ug/L | 20.0                      | ND   | 92.8                      | 70-130 | 1.42   | 20 |
| Copper                                 | 26.8 | 1.6                       | 2.0  | ug/L | 20.0                      | 8.82 | 89.8                      | 70-130 | 0.395  | 20 |
| Iron                                   | 547  | 40                        | 200  | ug/L | 520                       | 89.6 | 87.9                      | 70-130 | 2.18   | 20 |
| Lead                                   | 18.5 | 0.24                      | 1.0  | ug/L | 20.0                      | ND   | 92.7                      | 70-130 | 1.56   | 20 |
| Manganese                              | 71.4 | 8.0                       | 20   | ug/L | 20.0                      | 53.7 | 88.5                      | 70-130 | 0.324  | 20 |
| Molybdenum                             | 22.9 | 0.28                      | 1.0  | ug/L | 20.0                      | 3.45 | 97.4                      | 70-130 | 0.921  | 20 |
| Nickel                                 | 21.4 | 1.2                       | 2.0  | ug/L | 20.0                      | 2.67 | 93.8                      | 70-130 | 0.824  | 20 |
| Selenium                               | 20.0 | 1.2                       | 8.0  | ug/L | 20.0                      | ND   | 100                       | 70-130 | 4.47   | 20 |
| Silver                                 | 18.5 | 0.20                      | 0.40 | ug/L | 20.0                      | ND   | 92.7                      | 70-130 | 0.0204 | 20 |
| Thallium                               | 18.3 | 0.20                      | 0.40 | ug/L | 20.0                      | ND   | 91.4                      | 70-130 | 0.623  | 20 |
| Vanadium                               | 21.4 | 2.0                       | 4.0  | ug/L | 20.0                      | 2.03 | 96.8                      | 70-130 | 3.22   | 20 |
| Zinc                                   | 95.9 | 8.0                       | 20   | ug/L | 100                       | ND   | 95.9                      | 70-130 | 1.90   | 20 |

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|   |  |                             |
|---|--|-----------------------------|
| Sample Traps, LLC<br>262 Rickenbacker Circle<br>Livermore CA, 94551 | Project Manager: Quality Control Manager<br>Project: QC- 8oz WM Poly<br>Project Number: Lot Number I8339CUCS | Reported:<br>01/07/19 08:03 |
|---|--|-----------------------------|

**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 AL83978 - General Preparation**

| <b>Blank (AL83978-BLK1)</b> |    | Prepared & Analyzed: 12/18/18 |      |      |  |  |  |  |  |  |   |
|-----------------------------|----|-------------------------------|------|------|--|--|--|--|--|--|---|
| Fluoride                    | ND | 0.070                         | 0.10 | mg/L |  |  |  |  |  |  | U |
| Nitrate as NO3              | ND | 0.20                          | 1.0  | mg/L |  |  |  |  |  |  | U |
| Sulfate as SO4              | ND | 0.20                          | 0.50 | mg/L |  |  |  |  |  |  | U |
| Nitrite as NO2              | ND | 0.20                          | 1.0  | mg/L |  |  |  |  |  |  | U |

| <b>LCS (AL83978-BS1)</b> |      | Prepared & Analyzed: 12/18/18 |      |      |      |  |      |        |  |  |  |
|--------------------------|------|-------------------------------|------|------|------|--|------|--------|--|--|--|
| Fluoride                 | 5.86 | 0.070                         | 0.10 | mg/L | 5.56 |  | 105  | 90-110 |  |  |  |
| Nitrite as NO2           | 18.2 | 0.20                          | 1.0  | mg/L | 18.2 |  | 99.9 | 90-110 |  |  |  |
| Sulfate as SO4           | 23.6 | 0.20                          | 0.50 | mg/L | 22.2 |  | 106  | 90-110 |  |  |  |
| Nitrate as NO3           | 26   | 0.20                          | 1.0  | mg/L | 24.7 |  | 106  | 90-110 |  |  |  |

| <b>Duplicate (AL83978-DUP1)</b> |      | Source: 18L1996-01 |      | Prepared & Analyzed: 12/18/18 |  |      |  |  |       |  |    |   |
|---------------------------------|------|--------------------|------|-------------------------------|--|------|--|--|-------|--|----|---|
| Nitrite as NO2                  | ND   | 0.20               | 1.0  | mg/L                          |  | ND   |  |  |       |  | 20 | U |
| Sulfate as SO4                  | 10.2 | 0.20               | 0.50 | mg/L                          |  | 10.3 |  |  | 0.989 |  | 20 |   |
| Nitrate as NO3                  | 0.98 | 0.20               | 1.0  | mg/L                          |  | 1.0  |  |  | 1.41  |  | 20 | J |
| Fluoride                        | ND   | 0.070              | 0.10 | mg/L                          |  | ND   |  |  |       |  | 20 | U |

| <b>Matrix Spike (AL83978-MS1)</b> |      | Source: 18L1996-01 |      | Prepared & Analyzed: 12/18/18 |      |      |     |        |  |  |  |  |
|-----------------------------------|------|--------------------|------|-------------------------------|------|------|-----|--------|--|--|--|--|
| Sulfate as SO4                    | 33.2 | 0.20               | 0.50 | mg/L                          | 22.2 | 10.3 | 103 | 80-120 |  |  |  |  |
| Nitrite as NO2                    | 18.6 | 0.20               | 1.0  | mg/L                          | 18.2 | ND   | 102 | 80-120 |  |  |  |  |
| Nitrate as NO3                    | 28   | 0.20               | 1.0  | mg/L                          | 24.7 | 1.0  | 108 | 80-120 |  |  |  |  |
| Fluoride                          | 5.95 | 0.070              | 0.10 | mg/L                          | 5.56 | ND   | 107 | 80-120 |  |  |  |  |

| <b>Matrix Spike (AL83978-MS2)</b> |      | Source: 18L0943-01 |      | Prepared & Analyzed: 12/18/18 |      |      |      |        |  |  |  |       |
|-----------------------------------|------|--------------------|------|-------------------------------|------|------|------|--------|--|--|--|-------|
| Nitrate as NO3                    | 28   | 0.20               | 1.0  | mg/L                          | 24.7 | 1.5  | 109  | 80-120 |  |  |  |       |
| Fluoride                          | 5.98 | 0.070              | 0.10 | mg/L                          | 5.56 | ND   | 108  | 80-120 |  |  |  |       |
| Nitrite as NO2                    | 7.22 | 0.20               | 1.0  | mg/L                          | 18.2 | ND   | 39.6 | 80-120 |  |  |  | QM-05 |
| Sulfate as SO4                    | 36.1 | 0.20               | 0.50 | mg/L                          | 22.2 | 13.4 | 102  | 80-120 |  |  |  |       |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I8339CUCS

Reported:  
 01/07/19 08:03

**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 AL83978 - General Preparation**

| Matrix Spike Dup (AL83978-MSD1) | Source: 18L1996-01 |       |      | Prepared & Analyzed: 12/18/18 |      |      |     |        |       |    |  |
|---------------------------------|--------------------|-------|------|-------------------------------|------|------|-----|--------|-------|----|--|
| Fluoride                        | 5.99               | 0.070 | 0.10 | mg/L                          | 5.56 | ND   | 108 | 80-120 | 0.595 | 20 |  |
| Nitrite as NO2                  | 18.7               | 0.20  | 1.0  | mg/L                          | 18.2 | ND   | 103 | 80-120 | 0.902 | 20 |  |
| Sulfate as SO4                  | 33.3               | 0.20  | 0.50 | mg/L                          | 22.2 | 10.3 | 104 | 80-120 | 0.355 | 20 |  |
| Nitrate as NO3                  | 28                 | 0.20  | 1.0  | mg/L                          | 24.7 | 1.0  | 108 | 80-120 | 0.688 | 20 |  |





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Reported:  
01/07/19 08:03

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- 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

# Chain of Custody Record

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

Lab No. 18L1888 Page \_\_\_\_ of \_\_\_\_

|                                    |  |  |  |                            |  |  |  |   |  |  |  |   |  |                  |  |  |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|--|--|--|----------------------------|--|--|--|---|--|--|--|---|--|------------------|--|--|--|-------------------------------------|--|----------------------------------|--|--|--|----------------|--|--|--|-----------------------|--|--|--|--------------|--|--|--|-------|--|--|--|------|--|--|--|-------|--|--|--|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Report to:                         |  |  |  | Invoice to (if different): |  |  |  | Project Info for Report:                |  |  |  | Signature below authorizes work under terms stated on reverse side. |  |                  |  |  |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company:<br>Sample Traps LLC       |  |  |  | Company:                   |  |  |  | Project ID:<br>QC- 8oz WM poly          |  |  |  | Analyses Requested  |  |                  |  | TAT  |  | Lab Approval Required For Rush TATs |  | Sample Notes (lab use only)      |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attn:<br>Quality Control Manager   |  |  |  | Attn:                      |  |  |  | Project No:<br><br>Lot Number I8339CUCS |  |  |  |   |  |                  |  |  |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Address:                           |  |  |  | Address:                   |  |  |  |   |  |  |  | PO/Reference :  |  |                  |  | 10 days<br><input checked="" type="radio"/> <b>RUSH:</b><br>5 days<br><input type="radio"/><br>48 hours<br><input type="radio"/><br>Other:<br>__ days<br><input type="radio"/> |  | Temperature:<br><br>deg. C          |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone/Fax:                         |  |  |  | Phone/Fax:                 |  |  |  | Email Address:<br>admin@sampletraps.com |  |  |  | Sample Traps Inorganics<br><br>include MDL i-flags                  |  | Shipment Method: |  |  |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Samplers Signature:<br><br>N/A     |  |  |  | Container:                 |  |  |  | Preservative:                           |  |  |  |   |  |                  |  | Total Number of Containers   |  |                                     |  | Custody Seals:<br>Y / N          |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Print:                             |  |  |  | 40ml VOA                   |  |  |  | Matrix:                                 |  |  |  | Sample Notes or CDPH Source Numbers:                                |  |                  |  |  |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sample Identification              |  |  |  | Sampled: Date Time         |  |  |  | Poly                                    |  |  |  |   |  |                  |  | Glass bottle   |  |                                     |  | Glass Jar                        |  |  |  | HCL            |  |  |  | Methanol              |  |  |  | Na Bisulfate |  |  |  | Other |  |  |  | None |  |  |  | Water |  |  |  | Container |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I8339CUCS                          |  |  |  | x x                        |  |  |  | x                                       |  |  |  |   |  |                  |  |  |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by:<br><i>Per BAL</i> |  |  |  | Received by:<br><i>SH</i>  |  |  |  | Date:<br>12-17-18                       |  |  |  | Time:<br>0730   |  |                  |  | CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No   |  |                                     |  |                                  |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                    |  |  |  |                            |  |  |  |   |  |  |  |   |  |                  |  | 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): _____  |  |                                     |  | Travel and Site Time: _____      |  |  |  | Mileage: _____ |  |  |  | Misc. Supplies: _____ |  |  |  |              |  |  |  |       |  |  |  |      |  |  |  |       |  |  |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |