



---

335 W. Hampden Ave., Suite 935 Englewood, CO 80110

**August 04, 2023**

Colorado Department of Public Health and Environment  
Water Quality Control Division / WQCD-B2-CAS  
Compliance Assurance Section  
Attention: Jacob Dyste  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530

**Subject:** June 2023 SW-AWD and SW-BPL Surface Monitoring Data for Sampling Stations,  
Schwartzwalder Mine, Paragraph 26, WQCD Order Number: IO 100601-1, June 1, 2010,  
Schwartzwalder Mine, Golden, Colorado

Dear Mr. Dyste:

Pursuant to Paragraph 26 of the above referenced Order, please find enclosed data reports from contract laboratories as received by Ensero Solutions, Inc working on behalf of Colorado Legacy Land. This data originates from the analysis of the surface water sample collected in June 2023 at the Schwartzwalder Mine, monitoring station SW-AWD and SW-BPL. Review of the data indicates that the total and dissolved uranium concentrations at SW-AWD and SW-BPL were below 30 µg/L.

If you have any questions, please don't hesitate to contact me.

Sincerely,

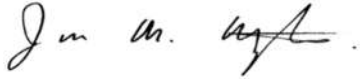
Jim Harrington, Managing Director  
**COLORADO LEGACY LAND**  
[jim@ColoradoLegacy.Land](mailto:jim@ColoradoLegacy.Land)

Distribution List:

Dan Arnold, Denver Water, 1 electronic copy via weblink, [Daniel.Arnold@DenverWater.org](mailto:Daniel.Arnold@DenverWater.org)  
Jacob Dyste, CDPHE, 1 electronic copy via weblink, [jacob.Dyste@state.co.us](mailto:jacob.Dyste@state.co.us)  
Michael Cunningham, Senior Environmental Protection Specialist, [michaela.cunningham@state.co.us](mailto:michaela.cunningham@state.co.us)  
Elizabeth Busby, Ensero Solutions, 1 electronic copy, [ebusby@ensero.com](mailto:ebusby@ensero.com)  
Billy Ray, Ensero Solutions, 1 electronic copy, [bray@ensero.com](mailto:bray@ensero.com)  
Brad Wyant, City of Arvada, 1 electronic copy, [brwyant@arvada.org](mailto:brwyant@arvada.org)  
Evelyn Rhodes, City of Arvada, 1 electronic copy, [erhodes@arvada.org](mailto:erhodes@arvada.org)

Certification

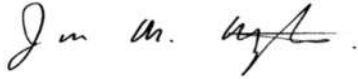
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Jim Harrington, Managing Director  
**COLORADO LEGACY LAND**

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Jim Harrington, Managing Director  
**COLORADO LEGACY LAND**



## June 2023 Schwartzwalder Monthly Surface Water Report

### Contents:

| Sample Location | Sample Date | Analysis       | Sample ID | Temp (°C) | Field pH (S.U.) | Conductivity (µS/cm) | DO (mg/L) | ORP (mV) |
|-----------------|-------------|----------------|-----------|-----------|-----------------|----------------------|-----------|----------|
| SW-AWD          | 06/27/2023  | Sample Suite 2 | L81442-02 | 14.5      | 8.10            | 210.5                | 8.74      | 170.0    |
| SW-BPL          | 06/27/2023  | Sample Suite 2 | L81441-05 | 18.0      | 8.07            | 215.9                | 8.76      | 147.7    |

July 24, 2023

Report to:

Nate Lambert  
Ensero Solutions  
333 W. Hampden Ave  
Ste.935  
Denver, CO 80110

Bill to:

Pauline Wong  
Ensero Solutions  
333 W. Hampden Ave. 935  
Denver, CO 80110

cc: Ensero/Alexco Importer, Ainsley Stewart

Project ID: 3100 PO 1923

ACZ Project ID: L81442

Nate Lambert:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 28, 2023. This project has been assigned to ACZ's project number, L81442. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L81442. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 23, 2023. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

*Madeleine Murray*  
Madeleine Murray has reviewed  
and approved this report.



**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: DIS001A

ACZ Sample ID: **L81442-01**

Date Sampled: 06/27/23 15:30

Date Received: 06/28/23

Sample Matrix: *Waste Water*

## Wet Chemistry

| Parameter                              | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst |
|----------------------------------------|------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Residue, Non-Filterable (TSS)<br>@105C | SM2540D    | 1        | 5.0    | B    | *  | mg/L  | 5   | 20  | 07/01/23 11:40 | cm      |

### Ensero Solutions

Project ID: 3100 PO 1923

Sample ID: SW-AWD

ACZ Sample ID: **L81442-02**

Date Sampled: 06/27/23 13:55

Date Received: 06/28/23

Sample Matrix: Surface Water

### Inorganic Prep

| Parameter                   | EPA Method                            | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst  |
|-----------------------------|---------------------------------------|----------|--------|------|----|-------|-----|-----|----------------|----------|
| Cyanide, WAD                | SM4500-CN I- distillation             |          |        |      |    |       |     |     | 07/07/23 10:17 | bls      |
| Phosphorus, total           | M365.1 - Auto Ascorbic Acid Digestion |          |        |      |    |       |     |     | 07/05/23 13:43 | lbt      |
| Total Hot Plate Digestion   | M200.2 ICP-MS                         |          |        |      |    |       |     |     | 07/10/23 15:44 | jrj      |
| Total Hot Plate Digestion   | M200.2 ICP                            |          |        |      |    |       |     |     | 07/07/23 17:01 | smw/ae h |
| Total Recoverable Digestion | M200.2 ICP-MS                         |          |        |      |    |       |     |     | 07/11/23 12:32 | kja      |
| Total Recoverable Digestion | M200.2 ICP                            |          |        |      |    |       |     |     | 07/07/23 15:03 | ae h     |

### Metals Analysis

| Parameter                   | EPA Method    | Dilution | Result  | Qual | XQ | Units | MDL    | PQL    | Date           | Analyst |
|-----------------------------|---------------|----------|---------|------|----|-------|--------|--------|----------------|---------|
| Antimony, total recoverable | M200.8 ICP-MS | 1        | <0.0004 | U    |    | mg/L  | 0.0004 | 0.002  | 07/13/23 15:30 | jrj     |
| Arsenic, total              | M200.8 ICP-MS | 1        | 0.00038 | B    |    | mg/L  | 0.0002 | 0.001  | 07/11/23 14:46 | jrj     |
| Boron, total                | M200.7 ICP    | 1        | <0.03   | U    |    | mg/L  | 0.03   | 0.1    | 07/12/23 2:25  | ae h    |
| Chromium, total recoverable | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.05   | 07/13/23 20:06 | ae h    |
| Copper, dissolved           | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.05   | 07/13/23 15:01 | wtc     |
| Molybdenum, dissolved       | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.1    | 07/13/23 15:01 | wtc     |
| Molybdenum, total           | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.1    | 07/12/23 2:25  | ae h    |
| Silver, dissolved           | M200.8 ICP-MS | 1        | <0.0001 | U    |    | mg/L  | 0.0001 | 0.0005 | 07/11/23 14:44 | kja     |
| Thallium, total recoverable | M200.8 ICP-MS | 1        | <0.0001 | U    |    | mg/L  | 0.0001 | 0.0005 | 07/13/23 15:30 | jrj     |
| Uranium, dissolved          | M200.8 ICP-MS | 1        | 0.00117 |      |    | mg/L  | 0.0001 | 0.0005 | 07/11/23 14:44 | kja     |
| Uranium, total              | M200.8 ICP-MS | 1        | 0.00152 |      |    | mg/L  | 0.0001 | 0.0005 | 07/11/23 14:46 | jrj     |
| Zinc, dissolved             | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.05   | 07/13/23 15:01 | wtc     |

### Wet Chemistry

| Parameter                           | EPA Method                                  | Dilution | Result | Qual | XQ | Units | MDL   | PQL  | Date           | Analyst  |
|-------------------------------------|---------------------------------------------|----------|--------|------|----|-------|-------|------|----------------|----------|
| Cyanide, WAD                        | SM4500-CN I,E- Colorimetric w/ distillation | 0.5      | <0.003 | U    | *  | mg/L  | 0.003 | 0.01 | 07/10/23 10:53 | ems/gr k |
| Fluoride                            | SM4500F-C                                   | 1        | 0.30   | B    | *  | mg/L  | 0.15  | 0.35 | 07/20/23 17:18 | emk      |
| Nitrate/Nitrite as N                | M353.2 - H2SO4 preserved                    | 1        | 0.090  | B    | *  | mg/L  | 0.02  | 0.1  | 07/13/23 2:49  | pjb      |
| Phosphate, total                    | Calculation based on total Phosphorus       |          | 0.0434 | B    |    | mg/L  | 0.03  | 0.2  | 07/24/23 0:00  | calc     |
| Phosphorus, total                   | M365.1 - Auto Ascorbic Acid (digest)        | 1        | 0.014  | B    | *  | mg/L  | 0.01  | 0.05 | 07/19/23 11:37 | mrd      |
| Residue, Filterable (TDS) @180C     | SM2540C                                     | 1        | 152    |      | *  | mg/L  | 20    | 40   | 07/04/23 12:49 | svm      |
| Residue, Non-Filterable (TSS) @105C | SM2540D                                     | 1        | 7.0    | B    | *  | mg/L  | 5     | 20   | 07/01/23 11:43 | cm       |
| Sulfate                             | D516-02/-07/-11 - TURBIDIMETRIC             | 1        | 9.4    |      | *  | mg/L  | 1     | 5    | 07/18/23 11:24 | gkk      |

**Report Header Explanations**

|                |                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Batch</i>   | A distinct set of samples analyzed at a specific time                                                                                                          |
| <i>Found</i>   | Value of the QC Type of interest                                                                                                                               |
| <i>Limit</i>   | Upper limit for RPD, in %.                                                                                                                                     |
| <i>Lower</i>   | Lower Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>MDL</i>     | Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).<br>Allows for instrument and annual fluctuations. |
| <i>PCN/SCN</i> | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis                                                                 |
| <i>PQL</i>     | Practical Quantitation Limit. Synonymous with the EPA term "minimum level".                                                                                    |
| <i>QC</i>      | True Value of the Control Sample or the amount added to the Spike                                                                                              |
| <i>Rec</i>     | Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)                                                                               |
| <i>RPD</i>     | Relative Percent Difference, calculation used for Duplicate QC Types                                                                                           |
| <i>Upper</i>   | Upper Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>Sample</i>  | Value of the Sample of interest                                                                                                                                |

**QC Sample Types**

|              |                                                        |              |                                              |
|--------------|--------------------------------------------------------|--------------|----------------------------------------------|
| <i>AS</i>    | Analytical Spike (Post Digestion)                      | <i>LCSWD</i> | Laboratory Control Sample - Water Duplicate  |
| <i>ASD</i>   | Analytical Spike (Post Digestion) Duplicate            | <i>LFB</i>   | Laboratory Fortified Blank                   |
| <i>CCB</i>   | Continuing Calibration Blank                           | <i>LFM</i>   | Laboratory Fortified Matrix                  |
| <i>CCV</i>   | Continuing Calibration Verification standard           | <i>LFMD</i>  | Laboratory Fortified Matrix Duplicate        |
| <i>DUP</i>   | Sample Duplicate                                       | <i>LRB</i>   | Laboratory Reagent Blank                     |
| <i>ICB</i>   | Initial Calibration Blank                              | <i>MS</i>    | Matrix Spike                                 |
| <i>ICV</i>   | Initial Calibration Verification standard              | <i>MSD</i>   | Matrix Spike Duplicate                       |
| <i>ICSAB</i> | Inter-element Correction Standard - A plus B solutions | <i>PBS</i>   | Prep Blank - Soil                            |
| <i>LCSS</i>  | Laboratory Control Sample - Soil                       | <i>PBW</i>   | Prep Blank - Water                           |
| <i>LCSSD</i> | Laboratory Control Sample - Soil Duplicate             | <i>PQV</i>   | Practical Quantitation Verification standard |
| <i>LCSW</i>  | Laboratory Control Sample - Water                      | <i>SDL</i>   | Serial Dilution                              |

**QC Sample Type Explanations**

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| Blanks                  | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples         | Verifies the accuracy of the method, including the prep procedure.                              |
| Duplicates              | Verifies the precision of the instrument and/or method.                                         |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any.                                                 |
| Standard                | Verifies the validity of the calibration.                                                       |

**ACZ Qualifiers (Qual)**

|   |                                                                                                                                                                                             |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.                                                                               |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time.                                                                                                         |
| L | Target analyte response was below the laboratory defined negative threshold.                                                                                                                |
| U | The material was analyzed for, but was not detected above the level of the associated value.<br>The associated value is either the sample quantitation limit or the sample detection limit. |

**Method References**

|     |                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------------------|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.                               |
| (2) | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. |
| (3) | EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.   |
| (4) | EPA SW-846. Test Methods for Evaluating Solid Waste.                                                           |
| (5) | Standard Methods for the Examination of Water and Wastewater.                                                  |

**Comments**

|     |                                                                                                                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.                 |
| (2) | Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.                                        |
| (3) | Animal matrices for Inorganic analyses are reported on an "as received" basis.                                                     |
| (4) | An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. |
| (5) | If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.                                            |

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>



**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Antimony, total recoverable**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570288</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG570288ICV     | ICV  | 07/13/23 15:12 | MS230712-3 | .02002 |        | .01978 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570288ICB     | ICB  | 07/13/23 15:14 |            |        |        | .00062 | mg/L  |      | -0.0012  | 0.0012  |     |       |      |
| WG570061LRB     | LRB  | 07/13/23 15:16 |            |        |        | U      | mg/L  |      | -0.00088 | 0.00088 |     |       |      |
| WG570061LFB     | LFB  | 07/13/23 15:17 | MS230626-2 | .01    |        | .00995 | mg/L  | 100  | 85       | 115     |     |       |      |
| WG570288CCV1    | CCV  | 07/13/23 15:34 | MS230710-7 | .0125  |        | .01215 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG570288CCB1    | CCB  | 07/13/23 15:36 |            |        |        | U      | mg/L  |      | -0.0012  | 0.0012  |     |       |      |
| L81510-01LFM    | LFM  | 07/13/23 15:37 | MS230626-2 | .01    | U      | .01019 | mg/L  | 102  | 70       | 130     |     |       |      |
| L81510-01LFMD   | LFMD | 07/13/23 15:39 | MS230626-2 | .01    | U      | .01001 | mg/L  | 100  | 70       | 130     | 2   | 20    |      |
| WG570288CCV2    | CCV  | 07/13/23 15:56 | MS230710-7 | .0125  |        | .012   | mg/L  | 96   | 90       | 110     |     |       |      |
| WG570288CCB2    | CCB  | 07/13/23 15:57 |            |        |        | U      | mg/L  |      | -0.0012  | 0.0012  |     |       |      |
| WG570288CCV3    | CCV  | 07/13/23 16:10 | MS230710-7 | .0125  |        | .01204 | mg/L  | 96   | 90       | 110     |     |       |      |
| WG570288CCB3    | CCB  | 07/13/23 16:12 |            |        |        | U      | mg/L  |      | -0.0012  | 0.0012  |     |       |      |

**Arsenic, total**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual  |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|-------|
| <b>WG570119</b> |      |                |            |       |        |        |       |      |          |         |     |       |       |
| WG570119ICV     | ICV  | 07/11/23 14:35 | MS230620-3 | .05   |        | .047   | mg/L  | 94   | 90       | 110     |     |       |       |
| WG570119ICB     | ICB  | 07/11/23 14:37 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |       |
| WG569980LRB     | LRB  | 07/11/23 14:39 |            |       |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |       |
| WG569980LFB     | LFB  | 07/11/23 14:41 | MS230626-2 | .0501 |        | .04743 | mg/L  | 95   | 85       | 115     |     |       |       |
| WG570119CCV1    | CCV  | 07/11/23 14:57 | MS230710-7 | .1002 |        | .10007 | mg/L  | 100  | 90       | 110     |     |       |       |
| WG570119CCB1    | CCB  | 07/11/23 14:59 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |       |
| L81502-01LFM    | LFM  | 07/11/23 15:04 | MS230626-2 | .0501 | .00089 | .05079 | mg/L  | 100  | 70       | 130     |     |       |       |
| L81502-01LFMD   | LFMD | 07/11/23 15:06 | MS230626-2 | .0501 | .00089 | .0518  | mg/L  | 102  | 70       | 130     | 2   | 20    |       |
| WG570119CCV2    | CCV  | 07/11/23 15:19 | MS230710-7 | .1002 |        | .09909 | mg/L  | 99   | 90       | 110     |     |       |       |
| WG570119CCB2    | CCB  | 07/11/23 15:21 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |       |
| WG570119CCV3    | CCV  | 07/11/23 15:33 | MS230710-7 | .1002 |        | .09848 | mg/L  | 98   | 90       | 110     |     |       |       |
| WG570119CCB3    | CCB  | 07/11/23 15:35 |            |       |        | .0018  | mg/L  |      | -0.0006  | 0.0006  |     |       | BB BE |

**Boron, total**

M200.7 ICP

| ACZ ID          | Type | Analyzed      | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|------------|-------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG570137</b> |      |               |            |       |        |       |       |      |        |       |     |       |      |
| WG570137ICV     | ICV  | 07/12/23 2:01 | II230601-1 | 2     |        | 2.032 | mg/L  | 102  | 95     | 105   |     |       |      |
| WG570137ICB     | ICB  | 07/12/23 2:07 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |
| WG570137PQV     | PQV  | 07/12/23 2:10 | II230622-2 | .1001 |        | .108  | mg/L  | 108  | 70     | 130   |     |       |      |
| WG570137SIC     | SIC  | 07/12/23 2:13 | II230622-3 | .1001 |        | .103  | mg/L  | 103  | 80     | 120   |     |       |      |
| WG569941LRB     | LRB  | 07/12/23 2:19 |            |       |        | U     | mg/L  |      | -0.066 | 0.066 |     |       |      |
| WG569941LFB     | LFB  | 07/12/23 2:22 | II230622-6 | .5005 |        | .492  | mg/L  | 98   | 85     | 115   |     |       |      |
| L81482-04LFM    | LFM  | 07/12/23 2:40 | II230622-6 | .5005 | U      | .505  | mg/L  | 101  | 70     | 130   |     |       |      |
| L81482-04LFMD   | LFMD | 07/12/23 2:43 | II230622-6 | .5005 | U      | .519  | mg/L  | 104  | 70     | 130   | 3   | 20    |      |
| WG570137CCV1    | CCV  | 07/12/23 2:49 | II230622-7 | 1     |        | 1.03  | mg/L  | 103  | 90     | 110   |     |       |      |
| WG570137CCB1    | CCB  | 07/12/23 2:52 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |
| WG570137CCV2    | CCV  | 07/12/23 3:25 | II230622-7 | 1     |        | 1.022 | mg/L  | 102  | 90     | 110   |     |       |      |
| WG570137CCB2    | CCB  | 07/12/23 3:28 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |
| WG570137CCV3    | CCV  | 07/12/23 3:49 | II230622-7 | 1     |        | 1.039 | mg/L  | 104  | 90     | 110   |     |       |      |
| WG570137CCB3    | CCB  | 07/12/23 3:52 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Chromium, total recoverable**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG570105</b> |      |                |            |        |        |       |       |      |        |       |     |       |      |
| WG570105ICV     | ICV  | 07/13/23 19:35 | II230624-1 | 2      |        | 1.955 | mg/L  | 98   | 95     | 105   |     |       |      |
| WG570105ICB     | ICB  | 07/13/23 19:41 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG570105PQV     | PQV  | 07/13/23 19:44 | II230622-2 | .05005 |        | .052  | mg/L  | 104  | 70     | 130   |     |       |      |
| WG570105SIC     | SIC  | 07/13/23 19:47 | II230622-4 | .1001  |        | .098  | mg/L  | 98   | 80     | 120   |     |       |      |
| WG569910LRB     | LRB  | 07/13/23 19:53 |            |        |        | U     | mg/L  |      | -0.044 | 0.044 |     |       |      |
| WG569910LFB     | LFB  | 07/13/23 19:57 | II230622-6 | .5005  |        | .488  | mg/L  | 98   | 85     | 115   |     |       |      |
| L81486-03LFM    | LFM  | 07/13/23 20:18 | II230622-6 | .5005  | U      | .489  | mg/L  | 98   | 70     | 130   |     |       |      |
| L81486-03LFMD   | LFMD | 07/13/23 20:21 | II230622-6 | .5005  | U      | .497  | mg/L  | 99   | 70     | 130   | 2   | 20    |      |
| WG570105CCV1    | CCV  | 07/13/23 20:24 | II230705-1 | 1      |        | .991  | mg/L  | 99   | 90     | 110   |     |       |      |
| WG570105CCB1    | CCB  | 07/13/23 20:27 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG570105CCV2    | CCV  | 07/13/23 21:00 | II230705-1 | 1      |        | .992  | mg/L  | 99   | 90     | 110   |     |       |      |
| WG570105CCB2    | CCB  | 07/13/23 21:03 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG570105CCV3    | CCV  | 07/13/23 21:24 | II230705-1 | 1      |        | .98   | mg/L  | 98   | 90     | 110   |     |       |      |
| WG570105CCB3    | CCB  | 07/13/23 21:27 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |

**Copper, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570218</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG570218ICV     | ICV  | 07/13/23 14:25 | II230624-1 | 2      |        | 1.96  | mg/L  | 98   | 95    | 105   |     |       |      |
| WG570218ICB     | ICB  | 07/13/23 14:30 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG570218PQV     | PQV  | 07/13/23 14:33 | II230622-2 | .05005 |        | .053  | mg/L  | 106  | 70    | 130   |     |       |      |
| WG570218SIC     | SIC  | 07/13/23 14:36 | II230622-4 | .1001  |        | .101  | mg/L  | 101  | 80    | 120   |     |       |      |
| WG570218LFB     | LFB  | 07/13/23 14:43 | II230711-2 | .5005  |        | .515  | mg/L  | 103  | 85    | 115   |     |       |      |
| L81508-02AS     | AS   | 07/13/23 15:10 | II230711-2 | .5005  | U      | .529  | mg/L  | 106  | 85    | 115   |     |       |      |
| WG570218CCV1    | CCV  | 07/13/23 15:13 | II230705-1 | 1      |        | .942  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG570218CCB1    | CCB  | 07/13/23 15:16 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L81508-02ASD    | ASD  | 07/13/23 15:19 | II230711-2 | .5005  | U      | .531  | mg/L  | 106  | 85    | 115   | 0   | 20    |      |
| WG570218CCV2    | CCV  | 07/13/23 15:50 | II230705-1 | 1      |        | .964  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG570218CCB2    | CCB  | 07/13/23 15:53 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG570218CCV3    | CCV  | 07/13/23 16:10 | II230705-1 | 1      |        | .961  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG570218CCB3    | CCB  | 07/13/23 16:13 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Cyanide, WAD**

SM4500-CN I,E-Colorimetric w/ distillation

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG569983</b> |      |                |            |        |        |       |       |      |        |       |     |       |      |
| WG569983ICV     | ICV  | 07/10/23 10:45 | WI230630-6 | .3003  |        | .2799 | mg/L  | 93   | 90     | 110   |     |       |      |
| WG569983ICB     | ICB  | 07/10/23 10:46 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569983LRB     | LRB  | 07/10/23 10:47 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569983LFB     | LFB  | 07/10/23 10:48 | WI230630-3 | .2002  |        | .1831 | mg/L  | 91   | 90     | 110   |     |       |      |
| L81451-01DUP    | DUP  | 07/10/23 10:54 |            |        | U      | U     | mg/L  |      |        |       | 0   | 20    | RA   |
| WG569983CCV1    | CCV  | 07/10/23 10:55 | WI230630-5 | .25025 |        | .253  | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569983CCB1    | CCB  | 07/10/23 10:56 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569983CCV2    | CCV  | 07/10/23 11:12 | WI230630-5 | .25025 |        | .2527 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569983CCB2    | CCB  | 07/10/23 11:12 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| L81451-02LFM    | LFM  | 07/10/23 11:14 | WI230630-3 | .2002  | U      | .1843 | mg/L  | 92   | 90     | 110   |     |       |      |
| WG569983CCV3    | CCV  | 07/10/23 11:22 | WI230630-5 | .25025 |        | .2537 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569983CCB3    | CCB  | 07/10/23 11:23 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569983CCV4    | CCV  | 07/10/23 11:31 | WI230630-5 | .25025 |        | .2537 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569983CCB4    | CCB  | 07/10/23 11:32 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |

**Fluoride**

SM4500F-C

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570642</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG570642ICV     | ICV  | 07/20/23 17:01 | WC230707-2 | 2.002 |        | 1.95  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG570642ICB     | ICB  | 07/20/23 17:07 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570642LFB1    | LFB  | 07/20/23 17:15 | WC221227-7 | 5.02  |        | 5.09  | mg/L  | 101  | 90    | 110   |     |       |      |
| L81442-02AS     | AS   | 07/20/23 17:21 | WC221227-7 | 5.02  | .3     | 5.56  | mg/L  | 105  | 90    | 110   |     |       |      |
| L81442-02ASD    | ASD  | 07/20/23 17:25 | WC221227-7 | 5.02  | .3     | 5.59  | mg/L  | 105  | 90    | 110   | 1   | 20    |      |
| WG570642CCV1    | CCV  | 07/20/23 18:01 | WC230707-2 | 2.002 |        | 1.99  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG570642CCB1    | CCB  | 07/20/23 18:08 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570642CCV2    | CCV  | 07/20/23 19:07 | WC230707-2 | 2.002 |        | 2.133 | mg/L  | 107  | 90    | 110   |     |       |      |
| WG570642CCB2    | CCB  | 07/20/23 19:12 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570642LFB2    | LFB  | 07/20/23 19:44 | WC221227-7 | 5.02  |        | 5.24  | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570642CCV3    | CCV  | 07/20/23 20:08 | WC230707-2 | 2.002 |        | 2.123 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG570642CCB3    | CCB  | 07/20/23 20:13 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570642CCV4    | CCV  | 07/20/23 21:02 | WC230707-2 | 2.002 |        | 2.187 | mg/L  | 109  | 90    | 110   |     |       |      |
| WG570642CCB4    | CCB  | 07/20/23 21:08 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570642CCV5    | CCV  | 07/21/23 9:37  | WC230707-2 | 2.002 |        | 1.857 | mg/L  | 93   | 90    | 110   |     |       |      |
| WG570642CCB5    | CCB  | 07/21/23 9:42  |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Molybdenum, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570218</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG570218ICV     | ICV  | 07/13/23 14:25 | II230624-1 | 2     |        | 1.957 | mg/L  | 98   | 95    | 105   |     |       |      |
| WG570218ICB     | ICB  | 07/13/23 14:30 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG570218PQV     | PQV  | 07/13/23 14:33 | II230622-2 | .1001 |        | .104  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG570218SIC     | SIC  | 07/13/23 14:36 | II230622-4 | .1001 |        | .096  | mg/L  | 96   | 80    | 120   |     |       |      |
| WG570218LFB     | LFB  | 07/13/23 14:43 | II230711-2 | .5005 |        | .509  | mg/L  | 102  | 85    | 115   |     |       |      |
| L81508-02AS     | AS   | 07/13/23 15:10 | II230711-2 | .5005 | U      | .516  | mg/L  | 103  | 85    | 115   |     |       |      |
| WG570218CCV1    | CCV  | 07/13/23 15:13 | II230705-1 | 1     |        | .952  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG570218CCB1    | CCB  | 07/13/23 15:16 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L81508-02ASD    | ASD  | 07/13/23 15:19 | II230711-2 | .5005 | U      | .518  | mg/L  | 103  | 85    | 115   | 0   | 20    |      |
| WG570218CCV2    | CCV  | 07/13/23 15:50 | II230705-1 | 1     |        | .969  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG570218CCB2    | CCB  | 07/13/23 15:53 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG570218CCV3    | CCV  | 07/13/23 16:10 | II230705-1 | 1     |        | .968  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG570218CCB3    | CCB  | 07/13/23 16:13 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**Molybdenum, total**

M200.7 ICP

| ACZ ID          | Type | Analyzed      | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|------------|-------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG570137</b> |      |               |            |       |        |       |       |      |        |       |     |       |      |
| WG570137ICV     | ICV  | 07/12/23 2:01 | II230601-1 | 2     |        | 1.975 | mg/L  | 99   | 95     | 105   |     |       |      |
| WG570137ICB     | ICB  | 07/12/23 2:07 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG570137PQV     | PQV  | 07/12/23 2:10 | II230622-2 | .1001 |        | .102  | mg/L  | 102  | 70     | 130   |     |       |      |
| WG570137SIC     | SIC  | 07/12/23 2:13 | II230622-3 | .1001 |        | .092  | mg/L  | 92   | 80     | 120   |     |       |      |
| WG569941LRB     | LRB  | 07/12/23 2:19 |            |       |        | U     | mg/L  |      | -0.044 | 0.044 |     |       |      |
| WG569941LFB     | LFB  | 07/12/23 2:22 | II230622-6 | .5005 |        | .494  | mg/L  | 99   | 85     | 115   |     |       |      |
| L81482-04LFM    | LFM  | 07/12/23 2:40 | II230622-6 | .5005 | U      | .501  | mg/L  | 100  | 70     | 130   |     |       |      |
| L81482-04LFMD   | LFMD | 07/12/23 2:43 | II230622-6 | .5005 | U      | .508  | mg/L  | 101  | 70     | 130   | 1   | 20    |      |
| WG570137CCV1    | CCV  | 07/12/23 2:49 | II230622-7 | 1     |        | 1.011 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG570137CCB1    | CCB  | 07/12/23 2:52 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG570137CCV2    | CCV  | 07/12/23 3:25 | II230622-7 | 1     |        | .997  | mg/L  | 100  | 90     | 110   |     |       |      |
| WG570137CCB2    | CCB  | 07/12/23 3:28 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG570137CCV3    | CCV  | 07/12/23 3:49 | II230622-7 | 1     |        | 1.01  | mg/L  | 101  | 90     | 110   |     |       |      |
| WG570137CCB3    | CCB  | 07/12/23 3:52 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |

**Nitrate/Nitrite as N**

M353.2 - H2SO4 preserved

| ACZ ID          | Type | Analyzed      | PCN/SCN    | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|------------|----|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570235</b> |      |               |            |    |        |       |       |      |       |       |     |       |      |
| WG570235CCV1    | CCV  | 07/13/23 2:43 | WI230712-9 | 2  |        | 2.018 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG570235CCB1    | CCB  | 07/13/23 2:46 |            |    |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG570235LFB     | LFB  | 07/13/23 2:48 | WI230228-3 | 2  |        | 2.011 | mg/L  | 101  | 90    | 110   |     |       |      |
| L81442-02AS     | AS   | 07/13/23 2:50 | WI230228-3 | 2  | .09    | 2.144 | mg/L  | 103  | 90    | 110   |     |       |      |
| L81505-01DUP    | DUP  | 07/13/23 2:53 |            |    | .026   | .025  | mg/L  |      |       |       | 4   | 20    | RA   |
| WG570235CCV2    | CCV  | 07/13/23 3:00 | WI230712-9 | 2  |        | 2.019 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG570235CCB2    | CCB  | 07/13/23 3:03 |            |    |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG570235CCV3    | CCV  | 07/13/23 3:10 | WI230712-9 | 2  |        | 2.012 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG570235CCB3    | CCB  | 07/13/23 3:12 |            |    |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Phosphorus, total** M365.1 - Auto Ascorbic Acid (digest)

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570591</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG570591ICV     | ICV  | 07/19/23 9:53  | WI230605-6 | .65228 |        | .638  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG570591ICB     | ICB  | 07/19/23 9:56  |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| <b>WG570615</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG570615CCV1    | CCV  | 07/19/23 11:29 | WI230605-8 | .5     |        | .487  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG570615CCB1    | CCB  | 07/19/23 11:30 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG569701LRB     | LRB  | 07/19/23 11:31 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG569701LFB     | LFB  | 07/19/23 11:32 | WI230628-5 | .5     |        | .483  | mg/L  | 97   | 90    | 110   |     |       |      |
| L81420-01LFM    | LFM  | 07/19/23 11:34 | WI230628-5 | .5     | .021   | .501  | mg/L  | 96   | 90    | 110   |     |       |      |
| L81420-02DUP    | DUP  | 07/19/23 11:36 |            |        | .019   | .018  | mg/L  |      |       |       | 5   | 20    | RA   |
| WG570615CCV2    | CCV  | 07/19/23 11:42 | WI230605-8 | .5     |        | .488  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG570615CCB2    | CCB  | 07/19/23 11:43 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG570615CCV3    | CCV  | 07/19/23 11:56 | WI230605-8 | .5     |        | .486  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG570615CCB3    | CCB  | 07/19/23 11:58 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG570615CCV4    | CCV  | 07/19/23 12:31 | WI230605-8 | .5     |        | .479  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG570615CCB4    | CCB  | 07/19/23 12:32 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG570615CCV5    | CCV  | 07/19/23 12:38 | WI230605-8 | .5     |        | .474  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG570615CCB5    | CCB  | 07/19/23 12:39 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |

**Residue, Filterable (TDS) @180C** SM2540C

| ACZ ID          | Type | Analyzed       | PCN/SCN   | QC   | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-----------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569645</b> |      |                |           |      |        |       |       |      |       |       |     |       |      |
| WG569645PBW     | PBW  | 07/04/23 12:44 |           |      |        | U     | mg/L  |      | -20   | 20    |     |       |      |
| WG569645LCSW    | LCSW | 07/04/23 12:46 | PCN625096 | 1000 |        | 962   | mg/L  | 96   | 80    | 120   |     |       |      |
| L81487-08DUP    | DUP  | 07/04/23 13:15 |           |      | 1980   | 1976  | mg/L  |      |       |       | 0   | 10    |      |

**Residue, Non-Filterable (TSS) @105C** SM2540D

| ACZ ID          | Type | Analyzed       | PCN/SCN   | QC  | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-----------|-----|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569544</b> |      |                |           |     |        |       |       |      |       |       |     |       |      |
| WG569544PBW     | PBW  | 07/01/23 11:30 |           |     |        | U     | mg/L  |      | -5    | 5     |     |       |      |
| WG569544LCSW    | LCSW | 07/01/23 11:32 | PCN624433 | 100 |        | 90    | mg/L  | 90   | 80    | 120   |     |       |      |
| L81482-07DUP    | DUP  | 07/01/23 11:56 |           |     | 17     | 19    | mg/L  |      |       |       | 11  | 10    | RA   |

**Silver, dissolved** M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570098</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG570098ICV     | ICV  | 07/11/23 14:08 | MS230620-3 | .02     |        | .02181 | mg/L  | 109  | 90       | 110     |     |       |      |
| WG570098ICB     | ICB  | 07/11/23 14:09 |            |         |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG570098LFB     | LFB  | 07/11/23 14:11 | MS230626-2 | .01001  |        | .01091 | mg/L  | 109  | 85       | 115     |     |       |      |
| WG570098CCV1    | CCV  | 07/11/23 14:26 | MS230710-7 | .025025 |        | .02485 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570098CCB1    | CCB  | 07/11/23 14:28 |            |         |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570098CCV2    | CCV  | 07/11/23 14:48 | MS230710-7 | .025025 |        | .02436 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG570098CCB2    | CCB  | 07/11/23 14:49 |            |         |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L81504-09AS     | AS   | 07/11/23 14:57 | MS230626-2 | .01001  | U      | .00961 | mg/L  | 96   | 70       | 130     |     |       |      |
| L81504-09ASD    | ASD  | 07/11/23 14:59 | MS230626-2 | .01001  | U      | .00937 | mg/L  | 94   | 70       | 130     | 3   | 20    |      |
| WG570098CCV3    | CCV  | 07/11/23 15:04 | MS230710-7 | .025025 |        | .02368 | mg/L  | 95   | 90       | 110     |     |       |      |
| WG570098CCB3    | CCB  | 07/11/23 15:06 |            |         |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Sulfate**

D516-02/-07/-11 - TURBIDIMETRIC

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570505</b> |      |                |            |    |        |       |       |      |       |       |     |       |      |
| WG570505ICB     | ICB  | 07/18/23 8:49  |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505ICV     | ICV  | 07/18/23 8:49  | WI230714-4 | 20 |        | 21.3  | mg/L  | 107  | 90    | 110   |     |       |      |
| WG570505CCV1    | CCV  | 07/18/23 11:22 | WI230714-5 | 25 |        | 25.8  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB1    | CCB  | 07/18/23 11:22 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505LFB     | LFB  | 07/18/23 11:22 | WI230119-9 | 10 |        | 10.6  | mg/L  | 106  | 90    | 110   |     |       |      |
| WG570505CCV2    | CCV  | 07/18/23 11:24 | WI230714-5 | 25 |        | 25.7  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB2    | CCB  | 07/18/23 11:24 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV3    | CCV  | 07/18/23 11:26 | WI230714-5 | 25 |        | 25.8  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB3    | CCB  | 07/18/23 11:26 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV4    | CCV  | 07/18/23 12:40 | WI230714-5 | 25 |        | 25.8  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB4    | CCB  | 07/18/23 12:40 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| L81449-02AS     | AS   | 07/18/23 12:40 | WI230119-9 | 10 | 31.9   | 39.9  | mg/L  | 80   | 90    | 110   |     |       | M2   |
| WG570505CCV5    | CCV  | 07/18/23 12:42 | WI230714-5 | 25 |        | 25.7  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB5    | CCB  | 07/18/23 12:42 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV6    | CCV  | 07/18/23 12:46 | WI230714-5 | 25 |        | 26    | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570505CCB6    | CCB  | 07/18/23 12:46 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV7    | CCV  | 07/18/23 13:16 | WI230714-5 | 25 |        | 25.9  | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570505CCB7    | CCB  | 07/18/23 13:16 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| L81449-01DUP    | DUP  | 07/18/23 13:16 |            |    | 248    | 248.4 | mg/L  |      |       |       | 0   | 20    | RA   |
| WG570505CCV8    | CCV  | 07/18/23 13:17 | WI230714-5 | 25 |        | 25.9  | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570505CCB8    | CCB  | 07/18/23 13:17 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |

**Thallium, total recoverable**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570288</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG570288ICV     | ICV  | 07/13/23 15:12 | MS230712-3 | .05   |        | .05433 | mg/L  | 109  | 90       | 110     |     |       |      |
| WG570288ICB     | ICB  | 07/13/23 15:14 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570061LRB     | LRB  | 07/13/23 15:16 |            |       |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG570061LFB     | LFB  | 07/13/23 15:17 | MS230626-2 | .0501 |        | .04761 | mg/L  | 95   | 85       | 115     |     |       |      |
| WG570288CCV1    | CCV  | 07/13/23 15:34 | MS230710-7 | .1002 |        | .10041 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG570288CCB1    | CCB  | 07/13/23 15:36 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L81510-01LFM    | LFM  | 07/13/23 15:37 | MS230626-2 | .0501 | U      | .04885 | mg/L  | 98   | 70       | 130     |     |       |      |
| L81510-01LFMD   | LFMD | 07/13/23 15:39 | MS230626-2 | .0501 | U      | .04852 | mg/L  | 97   | 70       | 130     | 1   | 20    |      |
| WG570288CCV2    | CCV  | 07/13/23 15:56 | MS230710-7 | .1002 |        | .0996  | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570288CCB2    | CCB  | 07/13/23 15:57 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570288CCV3    | CCV  | 07/13/23 16:10 | MS230710-7 | .1002 |        | .10118 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG570288CCB3    | CCB  | 07/13/23 16:12 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Uranium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570098</b> |      |                |            |     |        |        |       |      |          |         |     |       |      |
| WG570098ICV     | ICV  | 07/11/23 14:08 | MS230620-3 | .05 |        | .05191 | mg/L  | 104  | 90       | 110     |     |       |      |
| WG570098ICB     | ICB  | 07/11/23 14:09 |            |     |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG570098LFB     | LFB  | 07/11/23 14:11 | MS230626-2 | .05 |        | .05367 | mg/L  | 107  | 85       | 115     |     |       |      |
| WG570098CCV1    | CCV  | 07/11/23 14:26 | MS230710-7 | .1  |        | .10255 | mg/L  | 103  | 90       | 110     |     |       |      |
| WG570098CCB1    | CCB  | 07/11/23 14:28 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570098CCV2    | CCV  | 07/11/23 14:48 | MS230710-7 | .1  |        | .1046  | mg/L  | 105  | 90       | 110     |     |       |      |
| WG570098CCB2    | CCB  | 07/11/23 14:49 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L81504-09AS     | AS   | 07/11/23 14:57 | MS230626-2 | .05 | .00083 | .05814 | mg/L  | 115  | 70       | 130     |     |       |      |
| L81504-09ASD    | ASD  | 07/11/23 14:59 | MS230626-2 | .05 | .00083 | .05724 | mg/L  | 113  | 70       | 130     | 2   | 20    |      |
| WG570098CCV3    | CCV  | 07/11/23 15:04 | MS230710-7 | .1  |        | .10319 | mg/L  | 103  | 90       | 110     |     |       |      |
| WG570098CCB3    | CCB  | 07/11/23 15:06 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Uranium, total**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570119</b> |      |                |            |     |        |        |       |      |          |         |     |       |      |
| WG570119ICV     | ICV  | 07/11/23 14:35 | MS230620-3 | .05 |        | .05067 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG570119ICB     | ICB  | 07/11/23 14:37 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG569980LRB     | LRB  | 07/11/23 14:39 |            |     |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG569980LFB     | LFB  | 07/11/23 14:41 | MS230626-2 | .05 |        | .04859 | mg/L  | 97   | 85       | 115     |     |       |      |
| WG570119CCV1    | CCV  | 07/11/23 14:57 | MS230710-7 | .1  |        | .09914 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570119CCB1    | CCB  | 07/11/23 14:59 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L81502-01LFM    | LFM  | 07/11/23 15:04 | MS230626-2 | .05 | .0002  | .04668 | mg/L  | 93   | 70       | 130     |     |       |      |
| L81502-01LFMD   | LFMD | 07/11/23 15:06 | MS230626-2 | .05 | .0002  | .04857 | mg/L  | 97   | 70       | 130     | 4   | 20    |      |
| WG570119CCV2    | CCV  | 07/11/23 15:19 | MS230710-7 | .1  |        | .09862 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570119CCB2    | CCB  | 07/11/23 15:21 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570119CCV3    | CCV  | 07/11/23 15:33 | MS230710-7 | .1  |        | .09701 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG570119CCB3    | CCB  | 07/11/23 15:35 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Zinc, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570218</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG570218ICV     | ICV  | 07/13/23 14:25 | II230624-1 | 2      |        | 1.892 | mg/L  | 95   | 95    | 105   |     |       |      |
| WG570218ICB     | ICB  | 07/13/23 14:30 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG570218PQV     | PQV  | 07/13/23 14:33 | II230622-2 | .05005 |        | .037  | mg/L  | 74   | 70    | 130   |     |       |      |
| WG570218SIC     | SIC  | 07/13/23 14:36 | II230622-4 | .1001  |        | .081  | mg/L  | 81   | 80    | 120   |     |       |      |
| WG570218LFB     | LFB  | 07/13/23 14:43 | II230711-2 | .50045 |        | .5    | mg/L  | 100  | 85    | 115   |     |       |      |
| L81508-02AS     | AS   | 07/13/23 15:10 | II230711-2 | .50045 | U      | .512  | mg/L  | 102  | 85    | 115   |     |       |      |
| WG570218CCV1    | CCV  | 07/13/23 15:13 | II230705-1 | 1      |        | .938  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG570218CCB1    | CCB  | 07/13/23 15:16 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L81508-02ASD    | ASD  | 07/13/23 15:19 | II230711-2 | .50045 | U      | .519  | mg/L  | 104  | 85    | 115   | 1   | 20    |      |
| WG570218CCV2    | CCV  | 07/13/23 15:50 | II230705-1 | 1      |        | .954  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG570218CCB2    | CCB  | 07/13/23 15:53 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG570218CCV3    | CCV  | 07/13/23 16:10 | II230705-1 | 1      |        | .987  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG570218CCB3    | CCB  | 07/13/23 16:13 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**Ensero Solutions**

ACZ Project ID: **L81442**

| ACZ ID    | WORKNUM  | PARAMETER                           | METHOD                                     | QUAL | DESCRIPTION                                                                                                                                                           |
|-----------|----------|-------------------------------------|--------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L81442-01 | WG569544 | Residue, Non-Filterable (TSS) @105C | SM2540D                                    | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           |          |                                     | SM2540D                                    | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
|           |          |                                     | SM2540D                                    | Z3   | Sample volume yielded a residue less than 2.5 mg                                                                                                                      |
| L81442-02 | WG569983 | Cyanide, WAD                        | SM4500-CN I,E-Colorimetric w/ distillation | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           |          |                                     | SM4500-CN I,E-Colorimetric w/ distillation | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
|           | WG570642 | Fluoride                            | SM4500F-C                                  | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           | WG570235 | Nitrate/Nitrite as N                | M353.2 - H2SO4 preserved                   | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           |          |                                     | M353.2 - H2SO4 preserved                   | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
|           | WG570615 | Phosphorus, total                   | M365.1 - Auto Ascorbic Acid (digest)       | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           |          |                                     | M365.1 - Auto Ascorbic Acid (digest)       | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
|           | WG569645 | Residue, Filterable (TDS) @180C     | SM2540C                                    | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           | WG569544 | Residue, Non-Filterable (TSS) @105C | SM2540D                                    | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           |          |                                     | SM2540D                                    | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
|           | WG570505 | Sulfate                             | SM2540D                                    | Z3   | Sample volume yielded a residue less than 2.5 mg                                                                                                                      |
|           |          |                                     | D516-02/-07/-11 - TURBIDIMETRIC            | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                             |
|           |          |                                     | D516-02/-07/-11 - TURBIDIMETRIC            | Q6   | Sample was received above recommended temperature.                                                                                                                    |
|           |          |                                     | D516-02/-07/-11 - TURBIDIMETRIC            | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |



**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: SW-AWD

Locator:

ACZ Sample ID: **L81442-02**

Date Sampled: 06/27/23 13:55

Date Received: 06/28/23

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

| Parameter               | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Combined Radium (total) | 07/24/23 12:11 |           | 1.2    |            |     | pCi/L |    | calc    |

Gross Alpha &amp; Beta, total

Prep Method:

M900.0

| Parameter   | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha | 07/06/23 0:28 |           | 2.3    | 1.7        | 7.9 | pCi/L | *  | jhd     |
| Gross Beta  | 07/06/23 0:28 |           | 3.3    | 2.7        | 7.8 | pCi/L | *  | jhd     |

Radium 226, total

Prep Method:

M903.1

| Parameter         | Measure Date  | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Radium 226, total | 07/18/23 0:05 |           | 1.2    | 0.2        | 0.61 | pCi/L | *  | ang     |

Radium 228, total

Prep Method:

M904.0

| Parameter         | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Radium 228, total | 07/07/23 17:54 |           | 0.24   | 0.78       | 2   | pCi/L | *  | trt     |

**Report Header Explanations**

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| <i>Batch</i>      | A distinct set of samples analyzed at a specific time                                          |
| <i>Error(+/-)</i> | Calculated sample specific uncertainty                                                         |
| <i>Found</i>      | Value of the QC Type of interest                                                               |
| <i>Limit</i>      | Upper limit for RPD, in %.                                                                     |
| <i>LCL</i>        | Lower Control Limit, in % (except for LCSS, mg/Kg)                                             |
| <i>LLD</i>        | Calculated sample specific Lower Limit of Detection                                            |
| <i>PCN/SCN</i>    | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| <i>PQL</i>        | Practical Quantitation Limit                                                                   |
| <i>QC</i>         | True Value of the Control Sample or the amount added to the Spike                              |
| <i>Rec</i>        | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)               |
| <i>RER</i>        | Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.       |
| <i>RPD</i>        | Relative Percent Difference, calculation used for Duplicate QC Types                           |
| <i>UCL</i>        | Upper Control Limit, in % (except for LCSS, mg/Kg)                                             |
| <i>Sample</i>     | Value of the Sample of interest                                                                |

**QC Sample Types**

|             |                                   |               |                                     |
|-------------|-----------------------------------|---------------|-------------------------------------|
| <i>DUP</i>  | Sample Duplicate                  | <i>MS/MSD</i> | Matrix Spike/Matrix Spike Duplicate |
| <i>LCSS</i> | Laboratory Control Sample - Soil  | <i>PBS</i>    | Prep Blank - Soil                   |
| <i>LCSW</i> | Laboratory Control Sample - Water | <i>PBW</i>    | Prep Blank - Water                  |

**QC Sample Type Explanations**

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Blanks          | Verifies that there is no or minimal contamination in the prep method procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure.               |
| Duplicates      | Verifies the precision of the instrument and/or method.                          |
| Matrix Spikes   | Determines sample matrix interferences, if any.                                  |

**ACZ Qualifiers (Qual)**

|   |                                     |
|---|-------------------------------------|
| H | Analysis exceeded method hold time. |
|---|-------------------------------------|

**Method Prefix Reference**

|     |                                                               |
|-----|---------------------------------------------------------------|
| M   | EPA methodology, including those under SDWA, CWA, and RCRA    |
| SM  | Standard Methods for the Examination of Water and Wastewater. |
| D   | ASTM                                                          |
| RP  | DOE                                                           |
| ESM | DOE/ESM                                                       |

**Comments**

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://aczk.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

| Alpha           |         | M900.0   |           |     |        |       |     |       |       |     |      | Units: pCi/L |       |         |       |      |
|-----------------|---------|----------|-----------|-----|--------|-------|-----|-------|-------|-----|------|--------------|-------|---------|-------|------|
| ACZ ID          | Type    | Analyzed | PCN/SCN   | QC  | Sample | Error | LLD | Found | Error | LLD | Rec% | Lower        | Upper | RPD/RER | Limit | Qual |
| <b>WG569702</b> |         |          |           |     |        |       |     |       |       |     |      |              |       |         |       |      |
| WG569702PBW     | PBW     | 07/06/23 |           |     |        |       |     | -.29  | 0.74  | 12  |      |              | 24    |         |       |      |
| WG569702LCSWA   | LCSW    | 07/06/23 | PCN624450 | 100 |        |       |     | 100   | 8.7   | 12  | 100  | 67           | 144   |         |       |      |
| L81301-01DUP    | DUP-RPD | 07/06/23 |           |     | -0.55  | 0.57  | 15  | .38   | 1.1   | 7.6 |      |              |       | 1094    | 20    | RG   |
| L81301-01DUP    | DUP-RER | 07/06/23 |           |     | -0.55  | 0.57  | 15  | .38   | 1.1   | 7.6 |      |              |       | 0.75    | 2     |      |
| L81409-02DUP    | DUP-RPD | 07/06/23 |           |     | 1.8    | 1.8   | 10  | .65   | 1.2   | 4.9 |      |              |       | 94      | 20    | RG   |
| L81409-02DUP    | DUP-RER | 07/06/23 |           |     | 1.8    | 1.8   | 10  | .65   | 1.2   | 4.9 |      |              |       | 0.53    | 2     |      |
| L81441-05MSA    | MS      | 07/06/23 | PCN624450 | 100 | 6.2    | 2.7   | 15  | 100   | 9.9   | 15  | 94   | 67           | 144   |         |       |      |

| Beta            |         | M900.0   |             |     |        |       |     |       |       |     |      | Units: pCi/L |       |         |       |      |
|-----------------|---------|----------|-------------|-----|--------|-------|-----|-------|-------|-----|------|--------------|-------|---------|-------|------|
| ACZ ID          | Type    | Analyzed | PCN/SCN     | QC  | Sample | Error | LLD | Found | Error | LLD | Rec% | Lower        | Upper | RPD/RER | Limit | Qual |
| <b>WG569702</b> |         |          |             |     |        |       |     |       |       |     |      |              |       |         |       |      |
| WG569702PBW     | PBW     | 07/06/23 |             |     |        |       |     | 3.5   | 3     | 20  |      |              | 40    |         |       |      |
| WG569702LCSWB   | LCSW    | 07/06/23 | RC230516-10 | 100 |        |       |     | 98    | 6.6   | 7.6 | 98   | 82           | 122   |         |       |      |
| L81301-01DUP    | DUP-RPD | 07/06/23 |             |     | 2.8    | 2.8   | 22  | 5.4   | 2.8   | 7.8 |      |              |       | 63      | 20    | RG   |
| L81301-01DUP    | DUP-RER | 07/06/23 |             |     | 2.8    | 2.8   | 22  | 5.4   | 2.8   | 7.8 |      |              |       | 0.66    | 2     |      |
| L81409-02DUP    | DUP-RPD | 07/06/23 |             |     | 6      | 3.1   | 13  | 3.5   | 2.9   | 10  |      |              |       | 53      | 20    | RG   |
| L81409-02DUP    | DUP-RER | 07/06/23 |             |     | 6      | 3.1   | 13  | 3.5   | 2.9   | 10  |      |              |       | 0.59    | 2     |      |
| L81442-02MSB    | MS      | 07/06/23 | RC230516-10 | 100 | 3.3    | 2.7   | 7.8 | 100   | 6.8   | 5.9 | 97   | 82           | 122   |         |       |      |

**ENSERO**

ACZ Project ID: **L81442**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Radium 226, total**

M903.1

Units: pCi/L

| ACZ ID          | Type    | Analyzed | PCN/SCN   | QC | Sample | Error | LLD  | Found | Error | LLD  | Rec% | Lower | Upper | RPD/RER | Limit | Qual |
|-----------------|---------|----------|-----------|----|--------|-------|------|-------|-------|------|------|-------|-------|---------|-------|------|
| <b>WG570199</b> |         |          |           |    |        |       |      |       |       |      |      |       |       |         |       |      |
| WG570199LCSW    | LCSW    | 07/18/23 | PCN624896 | 20 |        |       |      | 17    | 0.48  | 0.34 | 85   | 43    | 148   |         |       |      |
| WG570199PBW     | PBW     | 07/18/23 |           |    |        |       |      | .06   | 0.07  | 0.27 |      |       | 0.54  |         |       |      |
| L81479-01DUP    | DUP-RPD | 07/18/23 |           |    | 0.31   | 0.12  | 0.46 | .38   | 0.12  | 0.4  |      |       |       | 20      | 20    |      |
| L81519-02MS     | MS      | 07/18/23 | PCN624896 | 20 | 2.1    | 0.19  | 0.45 | 16    | 0.47  | 0.43 | 70   | 43    | 148   |         |       |      |
| L81577-02DUP    | DUP-RPD | 07/18/23 |           |    | 0.34   | 0.11  | 0.43 | .22   | 0.08  | 0.33 |      |       |       | 43      | 20    | RG   |
| L81577-02DUP    | DUP-RER | 07/18/23 |           |    | 0.34   | 0.11  | 0.43 | .22   | 0.08  | 0.33 |      |       |       | 0.88    | 2     |      |

**Radium 228, total**

M904.0

Units: pCi/L

| ACZ ID          | Type    | Analyzed | PCN/SCN   | QC   | Sample | Error | LLD | Found | Error | LLD | Rec% | Lower | Upper | RPD/RER | Limit | Qual |
|-----------------|---------|----------|-----------|------|--------|-------|-----|-------|-------|-----|------|-------|-------|---------|-------|------|
| <b>WG569452</b> |         |          |           |      |        |       |     |       |       |     |      |       |       |         |       |      |
| WG569452LCSW    | LCSW    | 07/07/23 | PCN623727 | 9.12 |        |       |     | 10    | 1.3   | 2.3 | 110  | 47    | 123   |         |       |      |
| WG569452PBW     | PBW     | 07/07/23 |           |      |        |       |     | 1.4   | 0.81  | 2.2 |      |       | 4.4   |         |       |      |
| L81331-01DUP    | DUP-RER | 07/07/23 |           |      | 3.1    | 3.4   | 8.1 | -.97  | 1.9   | 4.8 |      |       |       | 1.04    | 2     |      |
| L81331-01DUP    | DUP-RPD | 07/07/23 |           |      | 3.1    | 3.4   | 8.1 | -.97  | 1.9   | 4.8 |      |       |       | 382     | 20    | RG   |
| L81441-05MS     | MS      | 07/07/23 | PCN623727 | 9.12 | 0.96   | 1.1   | 2.8 | 13    | 1.7   | 2.9 | 132  | 47    | 123   |         |       | M1   |
| L81442-02DUP    | DUP-RPD | 07/07/23 |           |      | 0.24   | 0.78  | 2   | .24   | 0.89  | 2.1 |      |       |       | 0       | 20    |      |

Ensero Solutions

ACZ Project ID: **L81442**

| ACZ ID    | WORKNUM  | PARAMETER         | METHOD | QUAL | DESCRIPTION                                                                                                                                                    |
|-----------|----------|-------------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L81442-02 | WG569702 | Gross Alpha       | M900.0 | RG   | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |
|           |          | Gross Beta        | M900.0 | RG   | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |
|           | WG570199 | Radium 226, total | M903.1 | D1   | Sample required dilution due to matrix.                                                                                                                        |
|           | WG569452 | Radium 228, total | M904.0 | M1   | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                     |
|           |          |                   |        |      |                                                                                                                                                                |

**Ensero Solutions**

ACZ Project ID: **L81442**

No certification qualifiers associated with this analysis

Ensero Solutions  
3100 PO 1923

ACZ Project ID: L81442  
Date Received: 06/28/2023 11:34  
Received By:  
Date Printed: 6/29/2023

#### Receipt Verification

|                                                                                             | YES                                 | NO                                  | NA                                  |
|---------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1) Is a foreign soil permit included for applicable samples?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2) Is the Chain of Custody form or other directive shipping papers present?                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3) Does this project require special handling procedures such as CLP protocol?              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4) Are any samples NRC licensable material?                                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6) Is the Chain of Custody form complete and accurate?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

#### Samples/Containers

|                                                                                         | YES                                 | NO                       | NA                                  |
|-----------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 8) Are all containers intact and with no leaks?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9) Are all labels on containers and are they intact and legible?                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 12) Is there sufficient sample volume to perform all requested work?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13) Is the custody seal intact on all containers?                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14) Are samples that require zero headspace acceptable?                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15) Are all sample containers appropriate for analytical requirements?                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 16) Is there an Hg-1631 trip blank present?                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17) Is there a VOA trip blank present?                                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18) Were all samples received within hold time?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

NA indicates Not Applicable

#### Chain of Custody Related Remarks

#### Client Contact Remarks

#### Shipping Containers

| Cooler Id | Temp (°C) | Temp<br>Criteria (°C) | Rad (µR/Hr) | Custody Seal<br>Intact? |
|-----------|-----------|-----------------------|-------------|-------------------------|
| -----     | -----     | -----                 | -----       | -----                   |
| 4518      | 7.7       | <=6.0                 | 15          | Yes                     |

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Ensero Solutions  
3100 PO 1923

ACZ Project ID: L81442

Date Received: 06/28/2023 11:34

Received By:

Date Printed: 6/29/2023

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



**Laboratories, Inc.**

L81442

**CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Report to:**

Name: Nate Lambert

Company: Ensero Solutions

E-mail: nlambert@ensero.com

Address: 333 W. Hampden Ave. Ste. 935

Denver, CO 80110

Telephone: 719-281-7594

**Copy of Report to:**

Name: Ainsley Stewart

Company: Ensero Solutions

E-mail: astewart@ensero.com

Telephone: 306-978-3111

**Invoice to:**

Name: Pauline Wong

Company: Ensero Solutions

E-mail: ap@ensero.com

Address: 333 W. Hampden Ave. 935

Denver, CO 80110

Telephone: 778-404-1182

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES



NO



If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

**Are samples for SDWA Compliance Monitoring?**

Yes



No



If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Tyler F.

Sampler's Site Information

State CO

Zip code 80401

Time Zone MTN

\*Sampler's Signature:

\*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

**PROJECT INFORMATION**

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Ensero-2023

PO#: 3100-PO#1923

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material?



SAMPLE IDENTIFICATION

DATE:TIME

Matrix

# of Containers

Sample Suite #1  
(Discharge Sample)Sample Suite #2  
(NOV/CDO Samples)Sample Suite #3  
(DRMS Samples)Chemical Oxygen  
Demand (M410.4)Total Suspended Solids  
(SM2540D)Total Dissolved Solids  
(SM2540C)

LLHG Trip Blank

DIS001A

2023JUN27-1530

WW

1



SW-AWD

2023JUN27-1355

SW

8



Matrix

SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

**REMARKS**

Please email reports to importer@alexco.ehsdata.com

Cooler 2 of 2

Please refer to ACZ's terms &amp; conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Tyler F. Ensero

6/27/23: 17:30

Mr. Chika

6/28/23 1134

FRMAD050.06.14.14

White - Return with sample.

Yellow - Retain for your records.

July 27, 2023

Report to:

Nate Lambert  
Ensero Solutions  
333 W. Hampden Ave  
Ste.935  
Denver, CO 80110

Bill to:

Pauline Wong  
Ensero Solutions  
333 W. Hampden Ave. 935  
Denver, CO 80110

cc: Ensero/Alexco Importer, Ainsley Stewart

Project ID: 3100 PO 1923

ACZ Project ID: L81441

Nate Lambert:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 28, 2023. This project has been assigned to ACZ's project number, L81441. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L81441. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 26, 2023. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

*Madeleine Murray*  
Madeleine Murray has reviewed  
and approved this report.



**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: DIS001A

ACZ Sample ID: **L81441-01**

Date Sampled: 06/23/23 16:00

Date Received: 06/28/23

Sample Matrix: *Waste Water*

## Wet Chemistry

| Parameter                           | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst |
|-------------------------------------|------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Residue, Non-Filterable (TSS) @105C | SM2540D    | 1        | <5     | U    | *  | mg/L  | 5   | 20  | 06/29/23 14:15 | pcj     |

**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: DIS001A

ACZ Sample ID: **L81441-02**

Date Sampled: 06/23/23 15:00

Date Received: 06/28/23

Sample Matrix: Waste Water

Wet Chemistry

| Parameter              | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst |
|------------------------|------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Chemical Oxygen Demand | M410.4     | 1        | <10    | U    | *  | mg/L  | 10  | 20  | 07/19/23 10:04 | cm      |

**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: DIS001A

ACZ Sample ID: **L81441-03**

Date Sampled: 06/26/23 15:30

Date Received: 06/28/23

Sample Matrix: *Waste Water*

## Wet Chemistry

| Parameter                              | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst |
|----------------------------------------|------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Residue, Non-Filterable (TSS)<br>@105C | SM2540D    | 1        | <5     | U    | *  | mg/L  | 5   | 20  | 06/29/23 14:19 | pcj     |

**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: DIS001A

ACZ Sample ID: **L81441-04**

Date Sampled: 06/26/23 15:30

Date Received: 06/28/23

Sample Matrix: *Waste Water*

Wet Chemistry

| Parameter              | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst |
|------------------------|------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Chemical Oxygen Demand | M410.4     | 1        | <10    | U    | *  | mg/L  | 10  | 20  | 07/19/23 10:19 | cm      |

**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: SW-BPL

ACZ Sample ID: **L81441-05**

Date Sampled: 06/27/23 14:40

Date Received: 06/28/23

Sample Matrix: Surface Water

## Inorganic Prep

| Parameter                   | EPA Method                            | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date           | Analyst     |
|-----------------------------|---------------------------------------|----------|--------|------|----|-------|-----|-----|----------------|-------------|
| Cyanide, WAD                | SM4500-CN I- distillation             |          |        |      |    |       |     |     | 07/04/23 11:52 | aps         |
| Phosphorus, total           | M365.1 - Auto Ascorbic Acid Digestion |          |        |      |    |       |     |     | 07/03/23 13:32 | lbt         |
| Total Hot Plate Digestion   | M200.2 ICP-MS                         |          |        |      |    |       |     |     | 07/05/23 16:20 | jrj         |
| Total Hot Plate Digestion   | M200.2 ICP                            |          |        |      |    |       |     |     | 07/05/23 11:10 | smw/ae<br>h |
| Total Recoverable Digestion | M200.2 ICP-MS                         |          |        |      |    |       |     |     | 07/06/23 13:26 | kja         |
| Total Recoverable Digestion | M200.2 ICP                            |          |        |      |    |       |     |     | 06/30/23 20:00 | aeH         |

## Metals Analysis

| Parameter                   | EPA Method    | Dilution | Result  | Qual | XQ | Units | MDL    | PQL    | Date           | Analyst |
|-----------------------------|---------------|----------|---------|------|----|-------|--------|--------|----------------|---------|
| Antimony, total recoverable | M200.8 ICP-MS | 1        | <0.0004 | U    |    | mg/L  | 0.0004 | 0.002  | 07/07/23 14:14 | kja     |
| Arsenic, total              | M200.8 ICP-MS | 1        | 0.00067 | B    |    | mg/L  | 0.0002 | 0.001  | 07/11/23 11:27 | jrj     |
| Boron, total                | M200.7 ICP    | 1        | <0.03   | U    |    | mg/L  | 0.03   | 0.1    | 07/07/23 22:24 | wtc     |
| Chromium, total recoverable | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.05   | 07/05/23 13:00 | aeH     |
| Copper, dissolved           | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.05   | 07/07/23 21:14 | wtc     |
| Molybdenum, dissolved       | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.1    | 07/07/23 21:14 | wtc     |
| Molybdenum, total           | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.1    | 07/07/23 22:24 | wtc     |
| Silver, dissolved           | M200.8 ICP-MS | 1        | <0.0001 | U    |    | mg/L  | 0.0001 | 0.0005 | 07/11/23 17:09 | kja     |
| Thallium, total recoverable | M200.8 ICP-MS | 1        | <0.0001 | U    |    | mg/L  | 0.0001 | 0.0005 | 07/07/23 14:14 | kja     |
| Uranium, dissolved          | M200.8 ICP-MS | 1        | 0.0148  |      |    | mg/L  | 0.0001 | 0.0005 | 07/10/23 15:29 | kja     |
| Uranium, total              | M200.8 ICP-MS | 1        | 0.0156  |      |    | mg/L  | 0.0001 | 0.0005 | 07/11/23 11:27 | jrj     |
| Zinc, dissolved             | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.05   | 07/07/23 21:14 | wtc     |

## Wet Chemistry

| Parameter                           | EPA Method                                  | Dilution | Result | Qual | XQ | Units | MDL   | PQL  | Date           | Analyst |
|-------------------------------------|---------------------------------------------|----------|--------|------|----|-------|-------|------|----------------|---------|
| Cyanide, WAD                        | SM4500-CN I,E- Colorimetric w/ distillation | 0.5      | <0.003 | U    | *  | mg/L  | 0.003 | 0.01 | 07/05/23 15:30 | ems     |
| Fluoride                            | SM4500F-C                                   | 1        | 0.33   | B    | *  | mg/L  | 0.15  | 0.35 | 07/19/23 18:54 | emk     |
| Nitrate/Nitrite as N                | M353.2 - H2SO4 preserved                    | 1        | 0.606  |      | *  | mg/L  | 0.02  | 0.1  | 07/08/23 3:04  | pjb     |
| Phosphate, total                    | Calculation based on total Phosphorus       |          | 0.0403 | B    |    | mg/L  | 0.03  | 0.2  | 07/27/23 0:00  | calc    |
| Phosphorus, total                   | M365.1 - Auto Ascorbic Acid (digest)        | 1        | 0.013  | B    | *  | mg/L  | 0.01  | 0.05 | 07/14/23 14:39 | ems     |
| Residue, Filterable (TDS) @180C     | SM2540C                                     | 1        | 188    |      | *  | mg/L  | 20    | 40   | 07/04/23 11:44 | mmj     |
| Residue, Non-Filterable (TSS) @105C | SM2540D                                     | 1        | 11.0   | B    | *  | mg/L  | 5     | 20   | 07/01/23 11:38 | cm      |
| Sulfate                             | D516-02/-07/-11 - TURBIDIMETRIC             | 1        | 14.0   |      | *  | mg/L  | 1     | 5    | 07/18/23 12:40 | gkk     |



#### Report Header Explanations

|                |                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Batch</i>   | A distinct set of samples analyzed at a specific time                                                                                                          |
| <i>Found</i>   | Value of the QC Type of interest                                                                                                                               |
| <i>Limit</i>   | Upper limit for RPD, in %.                                                                                                                                     |
| <i>Lower</i>   | Lower Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>MDL</i>     | Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).<br>Allows for instrument and annual fluctuations. |
| <i>PCN/SCN</i> | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis                                                                 |
| <i>PQL</i>     | Practical Quantitation Limit. Synonymous with the EPA term "minimum level".                                                                                    |
| <i>QC</i>      | True Value of the Control Sample or the amount added to the Spike                                                                                              |
| <i>Rec</i>     | Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)                                                                               |
| <i>RPD</i>     | Relative Percent Difference, calculation used for Duplicate QC Types                                                                                           |
| <i>Upper</i>   | Upper Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>Sample</i>  | Value of the Sample of interest                                                                                                                                |

#### QC Sample Types

|              |                                                        |              |                                              |
|--------------|--------------------------------------------------------|--------------|----------------------------------------------|
| <i>AS</i>    | Analytical Spike (Post Digestion)                      | <i>LCSWD</i> | Laboratory Control Sample - Water Duplicate  |
| <i>ASD</i>   | Analytical Spike (Post Digestion) Duplicate            | <i>LFB</i>   | Laboratory Fortified Blank                   |
| <i>CCB</i>   | Continuing Calibration Blank                           | <i>LFM</i>   | Laboratory Fortified Matrix                  |
| <i>CCV</i>   | Continuing Calibration Verification standard           | <i>LFMD</i>  | Laboratory Fortified Matrix Duplicate        |
| <i>DUP</i>   | Sample Duplicate                                       | <i>LRB</i>   | Laboratory Reagent Blank                     |
| <i>ICB</i>   | Initial Calibration Blank                              | <i>MS</i>    | Matrix Spike                                 |
| <i>ICV</i>   | Initial Calibration Verification standard              | <i>MSD</i>   | Matrix Spike Duplicate                       |
| <i>ICSAB</i> | Inter-element Correction Standard - A plus B solutions | <i>PBS</i>   | Prep Blank - Soil                            |
| <i>LCSS</i>  | Laboratory Control Sample - Soil                       | <i>PBW</i>   | Prep Blank - Water                           |
| <i>LCSSD</i> | Laboratory Control Sample - Soil Duplicate             | <i>PQV</i>   | Practical Quantitation Verification standard |
| <i>LCSW</i>  | Laboratory Control Sample - Water                      | <i>SDL</i>   | Serial Dilution                              |

#### QC Sample Type Explanations

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| Blanks                  | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples         | Verifies the accuracy of the method, including the prep procedure.                              |
| Duplicates              | Verifies the precision of the instrument and/or method.                                         |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any.                                                 |
| Standard                | Verifies the validity of the calibration.                                                       |

#### ACZ Qualifiers (Qual)

|   |                                                                                                                                                                                             |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.                                                                               |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time.                                                                                                         |
| L | Target analyte response was below the laboratory defined negative threshold.                                                                                                                |
| U | The material was analyzed for, but was not detected above the level of the associated value.<br>The associated value is either the sample quantitation limit or the sample detection limit. |

#### Method References

|     |                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------------------|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.                               |
| (2) | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. |
| (3) | EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.   |
| (4) | EPA SW-846. Test Methods for Evaluating Solid Waste.                                                           |
| (5) | Standard Methods for the Examination of Water and Wastewater.                                                  |

#### Comments

|     |                                                                                                                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.                 |
| (2) | Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.                                        |
| (3) | Animal matrices for Inorganic analyses are reported on an "as received" basis.                                                     |
| (4) | An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. |
| (5) | If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.                                            |

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>



**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Antimony, total recoverable**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG569903</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG569903ICV     | ICV  | 07/07/23 14:05 | MS230620-3 | .0201 |        | .0191  | mg/L  | 95   | 90       | 110     |     |       |      |
| WG569903ICB     | ICB  | 07/07/23 14:07 |            |       |        | U      | mg/L  |      | -0.0012  | 0.0012  |     |       |      |
| WG569790LRB     | LRB  | 07/07/23 14:09 |            |       |        | U      | mg/L  |      | -0.00088 | 0.00088 |     |       |      |
| WG569790LFB     | LFB  | 07/07/23 14:11 | MS230626-2 | .01   |        | .01006 | mg/L  | 101  | 85       | 115     |     |       |      |
| L81452-05LFM    | LFM  | 07/07/23 14:22 | MS230626-2 | .01   | U      | .01016 | mg/L  | 102  | 70       | 130     |     |       |      |
| WG569903CCV1    | CCV  | 07/07/23 14:23 | MS230616-2 | .0125 |        | .01226 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG569903CCB1    | CCB  | 07/07/23 14:25 |            |       |        | U      | mg/L  |      | -0.0012  | 0.0012  |     |       |      |
| L81452-05LFMD   | LFMD | 07/07/23 14:27 | MS230626-2 | .01   | U      | .01009 | mg/L  | 101  | 70       | 130     | 1   | 20    |      |
| WG569903CCV2    | CCV  | 07/07/23 14:38 | MS230616-2 | .0125 |        | .01205 | mg/L  | 96   | 90       | 110     |     |       |      |
| WG569903CCB2    | CCB  | 07/07/23 14:40 |            |       |        | U      | mg/L  |      | -0.0012  | 0.0012  |     |       |      |

**Arsenic, total**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570050</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG570050ICV     | ICV  | 07/11/23 11:07 | MS230620-3 | .05   |        | .0472  | mg/L  | 94   | 90       | 110     |     |       |      |
| WG570050ICB     | ICB  | 07/11/23 11:09 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG569667LRB     | LRB  | 07/11/23 11:10 |            |       |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG569667LFB     | LFB  | 07/11/23 11:12 | MS230626-2 | .0501 |        | .04763 | mg/L  | 95   | 85       | 115     |     |       |      |
| L81299-01LFM    | LFM  | 07/11/23 11:18 | MS230626-2 | .0501 | .00206 | .04566 | mg/L  | 87   | 70       | 130     |     |       |      |
| L81299-01LFMD   | LFMD | 07/11/23 11:19 | MS230626-2 | .0501 | .00206 | .04587 | mg/L  | 87   | 70       | 130     | 0   | 20    |      |
| WG570050CCV1    | CCV  | 07/11/23 11:28 | MS230710-7 | .1002 |        | .09584 | mg/L  | 96   | 90       | 110     |     |       |      |
| WG570050CCB1    | CCB  | 07/11/23 11:30 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG570050CCV2    | CCV  | 07/11/23 11:50 | MS230710-7 | .1002 |        | .09711 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG570050CCB2    | CCB  | 07/11/23 11:52 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG570050CCV3    | CCV  | 07/11/23 12:04 | MS230710-7 | .1002 |        | .09683 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG570050CCB3    | CCB  | 07/11/23 12:06 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |

**Boron, total**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG569926</b> |      |                |            |       |        |       |       |      |        |       |     |       |      |
| WG569926ICV     | ICV  | 07/07/23 21:48 | II230601-1 | 2     |        | 2.038 | mg/L  | 102  | 95     | 105   |     |       |      |
| WG569926ICB     | ICB  | 07/07/23 21:54 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |
| WG569926PQV     | PQV  | 07/07/23 21:57 | II230622-2 | .1001 |        | .103  | mg/L  | 103  | 70     | 130   |     |       |      |
| WG569926SIC     | SIC  | 07/07/23 22:00 | II230622-3 | .1001 |        | .097  | mg/L  | 97   | 80     | 120   |     |       |      |
| WG569714LRB     | LRB  | 07/07/23 22:06 |            |       |        | U     | mg/L  |      | -0.066 | 0.066 |     |       |      |
| WG569714LFB     | LFB  | 07/07/23 22:09 | II230622-6 | .5005 |        | .507  | mg/L  | 101  | 85     | 115   |     |       |      |
| L81454-04LFM    | LFM  | 07/07/23 22:33 | II230622-6 | .5005 | U      | .504  | mg/L  | 101  | 70     | 130   |     |       |      |
| WG569926CCV1    | CCV  | 07/07/23 22:36 | II230622-7 | 1     |        | 1.012 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569926CCB1    | CCB  | 07/07/23 22:39 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |
| L81454-04LFMD   | LFMD | 07/07/23 22:42 | II230622-6 | .5005 | U      | .496  | mg/L  | 99   | 70     | 130   | 2   | 20    |      |
| WG569926CCV2    | CCV  | 07/07/23 23:13 | II230622-7 | 1     |        | 1.002 | mg/L  | 100  | 90     | 110   |     |       |      |
| WG569926CCB2    | CCB  | 07/07/23 23:16 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |
| WG569926CCV3    | CCV  | 07/07/23 23:37 | II230622-7 | 1     |        | .925  | mg/L  | 93   | 90     | 110   |     |       |      |
| WG569926CCB3    | CCB  | 07/07/23 23:40 |            |       |        | U     | mg/L  |      | -0.09  | 0.09  |     |       |      |

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Chemical Oxygen Demand M410.4**

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570589</b> |      |                |            |     |        |       |       |      |       |       |     |       |      |
| WG570589ICV     | ICV  | 07/19/23 9:07  | WC230609-3 | 200 |        | 208   | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570589ICB     | ICB  | 07/19/23 9:21  |            |     |        | U     | mg/L  |      | -10   | 10    |     |       |      |
| WG570589LRB     | LRB  | 07/19/23 9:35  |            |     |        | U     | mg/L  |      | -10   | 10    |     |       |      |
| WG570589LFB     | LFB  | 07/19/23 9:50  | WC230609-5 | 50  |        | 55    | mg/L  | 110  | 90    | 110   |     |       |      |
| WG570589CCV1    | CCV  | 07/19/23 12:00 | WC230609-4 | 400 |        | 414   | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570589CCB1    | CCB  | 07/19/23 12:14 |            |     |        | U     | mg/L  |      | -10   | 10    |     |       |      |
| L81750-03DUP    | DUP  | 07/19/23 12:58 |            |     | 26     | 28    | mg/L  |      |       |       | 7   | 20    | RA   |
| L81750-03AS     | AS   | 07/19/23 13:12 | WC230609-5 | 50  | 26     | 79    | mg/L  | 106  | 90    | 110   |     |       |      |
| WG570589CCV2    | CCV  | 07/19/23 14:53 | WC230609-4 | 400 |        | 416   | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570589CCB2    | CCB  | 07/19/23 15:08 |            |     |        | U     | mg/L  |      | -10   | 10    |     |       |      |
| WG570589CCV3    | CCV  | 07/19/23 16:20 | WC230609-4 | 400 |        | 419   | mg/L  | 105  | 90    | 110   |     |       |      |
| WG570589CCB3    | CCB  | 07/19/23 16:34 |            |     |        | U     | mg/L  |      | -10   | 10    |     |       |      |

**Chromium, total recoverable M200.7 ICP**

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG569681</b> |      |                |            |        |        |       |       |      |        |       |     |       |      |
| WG569681ICV     | ICV  | 07/05/23 11:09 | II230624-1 | 2      |        | 1.986 | mg/L  | 99   | 95     | 105   |     |       |      |
| WG569681ICB     | ICB  | 07/05/23 11:15 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG569681PQV     | PQV  | 07/05/23 11:18 | II230622-2 | .05005 |        | .054  | mg/L  | 108  | 70     | 130   |     |       |      |
| WG569681SIC     | SIC  | 07/05/23 11:21 | II230622-4 | .1001  |        | .103  | mg/L  | 103  | 80     | 120   |     |       |      |
| WG569475LRB     | LRB  | 07/05/23 11:28 |            |        |        | U     | mg/L  |      | -0.044 | 0.044 |     |       |      |
| WG569475LFB     | LFB  | 07/05/23 11:31 | II230622-6 | .5005  |        | .48   | mg/L  | 96   | 85     | 115   |     |       |      |
| WG569681CCV1    | CCV  | 07/05/23 11:59 | II230614-1 | 1      |        | .996  | mg/L  | 100  | 90     | 110   |     |       |      |
| WG569681CCB1    | CCB  | 07/05/23 12:03 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG569681CCV2    | CCV  | 07/05/23 12:38 | II230614-1 | 1      |        | .985  | mg/L  | 99   | 90     | 110   |     |       |      |
| WG569681CCB2    | CCB  | 07/05/23 12:41 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| L81408-05LFM    | LFM  | 07/05/23 12:44 | II230622-6 | .5005  | U      | .485  | mg/L  | 97   | 70     | 130   |     |       |      |
| L81408-05LFMD   | LFMD | 07/05/23 12:47 | II230622-6 | .5005  | U      | .482  | mg/L  | 96   | 70     | 130   | 1   | 20    |      |
| WG569681CCV3    | CCV  | 07/05/23 13:03 | II230614-1 | 1      |        | .962  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG569681CCB3    | CCB  | 07/05/23 13:06 |            |        |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |

**Copper, dissolved M200.7 ICP**

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569904</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG569904ICV     | ICV  | 07/07/23 19:41 | II230624-1 | 2      |        | 1.977 | mg/L  | 99   | 95    | 105   |     |       |      |
| WG569904ICB     | ICB  | 07/07/23 19:46 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG569904PQV     | PQV  | 07/07/23 19:50 | II230622-2 | .05005 |        | .054  | mg/L  | 108  | 70    | 130   |     |       |      |
| WG569904SIC     | SIC  | 07/07/23 19:53 | II230622-4 | .1001  |        | .101  | mg/L  | 101  | 80    | 120   |     |       |      |
| WG569904LFB     | LFB  | 07/07/23 19:59 | II230622-6 | .5005  |        | .51   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG569904CCV1    | CCV  | 07/07/23 20:31 | II230614-1 | 1      |        | .971  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG569904CCB1    | CCB  | 07/07/23 20:34 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG569904CCV2    | CCV  | 07/07/23 21:08 | II230614-1 | 1      |        | .971  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG569904CCB2    | CCB  | 07/07/23 21:11 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L81441-05AS     | AS   | 07/07/23 21:17 | II230622-6 | .5005  | U      | .516  | mg/L  | 103  | 85    | 115   |     |       |      |
| L81441-05ASD    | ASD  | 07/07/23 21:20 | II230622-6 | .5005  | U      | .512  | mg/L  | 102  | 85    | 115   | 1   | 20    |      |
| WG569904CCV3    | CCV  | 07/07/23 21:29 | II230614-1 | 1      |        | .98   | mg/L  | 98   | 90    | 110   |     |       |      |
| WG569904CCB3    | CCB  | 07/07/23 21:32 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Cyanide, WAD**

SM4500-CN I,E-Colorimetric w/ distillation

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG569704</b> |      |                |            |        |        |       |       |      |        |       |     |       |      |
| WG569704ICV     | ICV  | 07/05/23 13:27 | WI230630-6 | .3003  |        | .2803 | mg/L  | 93   | 90     | 110   |     |       |      |
| WG569704ICB     | ICB  | 07/05/23 13:28 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| <b>WG569744</b> |      |                |            |        |        |       |       |      |        |       |     |       |      |
| WG569744CCV1    | CCV  | 07/05/23 15:21 | WI230630-5 | .25025 |        | .2508 | mg/L  | 100  | 90     | 110   |     |       |      |
| WG569744CCB1    | CCB  | 07/05/23 15:22 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569641LRB     | LRB  | 07/05/23 15:23 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569641LFB     | LFB  | 07/05/23 15:24 | WI230630-3 | .2002  |        | .1894 | mg/L  | 95   | 90     | 110   |     |       |      |
| L71601-71DUP    | DUP  | 07/05/23 15:26 |            |        | U      | U     | mg/L  |      |        |       | 0   | 20    | RA   |
| L81409-01LFM    | LFM  | 07/05/23 15:29 | WI230630-3 | .2002  | U      | .1892 | mg/L  | 95   | 90     | 110   |     |       |      |
| WG569744CCV2    | CCV  | 07/05/23 15:31 | WI230630-5 | .25025 |        | .2537 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569744CCB2    | CCB  | 07/05/23 15:32 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569744CCV3    | CCV  | 07/05/23 15:41 | WI230630-5 | .25025 |        | .2534 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569744CCB3    | CCB  | 07/05/23 15:42 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |
| WG569744CCV4    | CCV  | 07/05/23 15:50 | WI230630-5 | .25025 |        | .2539 | mg/L  | 101  | 90     | 110   |     |       |      |
| WG569744CCB4    | CCB  | 07/05/23 15:51 |            |        |        | U     | mg/L  |      | -0.003 | 0.003 |     |       |      |

**Fluoride**

SM4500F-C

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570629</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG570629ICV     | ICV  | 07/19/23 16:21 | WC230707-2 | 2.002 |        | 2.12  | mg/L  | 106  | 90    | 110   |     |       |      |
| WG570629ICB     | ICB  | 07/19/23 16:25 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570629PQV     | PQV  | 07/19/23 16:29 | WC230629-5 | .3514 |        | .33   | mg/L  | 94   | 70    | 130   |     |       |      |
| WG570629LFB1    | LFB  | 07/19/23 16:33 | WC221227-7 | 5.02  |        | 5.19  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570629CCV1    | CCV  | 07/19/23 17:14 | WC230707-2 | 2.002 |        | 2.21  | mg/L  | 110  | 90    | 110   |     |       |      |
| WG570629CCB1    | CCB  | 07/19/23 17:21 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570629CCV2    | CCV  | 07/19/23 18:09 | WC230707-2 | 2.002 |        | 2.21  | mg/L  | 110  | 90    | 110   |     |       |      |
| WG570629CCB2    | CCB  | 07/19/23 18:17 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570629LFB2    | LFB  | 07/19/23 18:40 | WC221227-7 | 5.02  |        | 5.49  | mg/L  | 109  | 90    | 110   |     |       |      |
| L81439-07AS     | AS   | 07/19/23 18:48 | WC221227-7 | 5.02  | .67    | 6.14  | mg/L  | 109  | 90    | 110   |     |       |      |
| L81439-07ASD    | ASD  | 07/19/23 18:51 | WC221227-7 | 5.02  | .67    | 6.11  | mg/L  | 108  | 90    | 110   | 0   | 20    |      |
| WG570629CCV3    | CCV  | 07/19/23 18:58 | WC230707-2 | 2.002 |        | 2.179 | mg/L  | 109  | 90    | 110   |     |       |      |
| WG570629CCB3    | CCB  | 07/19/23 19:06 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570629CCV4    | CCV  | 07/19/23 19:54 | WC230707-2 | 2.002 |        | 2.21  | mg/L  | 110  | 90    | 110   |     |       |      |
| WG570629CCB4    | CCB  | 07/19/23 20:02 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG570629CCV5    | CCV  | 07/19/23 20:48 | WC230707-2 | 2.002 |        | 2.118 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG570629CCB5    | CCB  | 07/19/23 20:56 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Molybdenum, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569904</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG569904ICV     | ICV  | 07/07/23 19:41 | II230624-1 | 2     |        | 1.985 | mg/L  | 99   | 95    | 105   |     |       |      |
| WG569904ICB     | ICB  | 07/07/23 19:46 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG569904PQV     | PQV  | 07/07/23 19:50 | II230622-2 | .1001 |        | .109  | mg/L  | 109  | 70    | 130   |     |       |      |
| WG569904SIC     | SIC  | 07/07/23 19:53 | II230622-4 | .1001 |        | .098  | mg/L  | 98   | 80    | 120   |     |       |      |
| WG569904LFB     | LFB  | 07/07/23 19:59 | II230622-6 | .5005 |        | .506  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG569904CCV1    | CCV  | 07/07/23 20:31 | II230614-1 | 1     |        | .979  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG569904CCB1    | CCB  | 07/07/23 20:34 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG569904CCV2    | CCV  | 07/07/23 21:08 | II230614-1 | 1     |        | .973  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG569904CCB2    | CCB  | 07/07/23 21:11 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L81441-05AS     | AS   | 07/07/23 21:17 | II230622-6 | .5005 | U      | .467  | mg/L  | 93   | 85    | 115   |     |       |      |
| L81441-05ASD    | ASD  | 07/07/23 21:20 | II230622-6 | .5005 | U      | .53   | mg/L  | 106  | 85    | 115   | 13  | 20    |      |
| WG569904CCV3    | CCV  | 07/07/23 21:29 | II230614-1 | 1     |        | .98   | mg/L  | 98   | 90    | 110   |     |       |      |
| WG569904CCB3    | CCB  | 07/07/23 21:32 |            |       |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**Molybdenum, total**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG569926</b> |      |                |            |       |        |       |       |      |        |       |     |       |      |
| WG569926ICV     | ICV  | 07/07/23 21:48 | II230601-1 | 2     |        | 1.988 | mg/L  | 99   | 95     | 105   |     |       |      |
| WG569926ICB     | ICB  | 07/07/23 21:54 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG569926PQV     | PQV  | 07/07/23 21:57 | II230622-2 | .1001 |        | .097  | mg/L  | 97   | 70     | 130   |     |       |      |
| WG569926SIC     | SIC  | 07/07/23 22:00 | II230622-3 | .1001 |        | .087  | mg/L  | 87   | 80     | 120   |     |       |      |
| WG569714LRB     | LRB  | 07/07/23 22:06 |            |       |        | U     | mg/L  |      | -0.044 | 0.044 |     |       |      |
| WG569714LFB     | LFB  | 07/07/23 22:09 | II230622-6 | .5005 |        | .505  | mg/L  | 101  | 85     | 115   |     |       |      |
| L81454-04LFM    | LFM  | 07/07/23 22:33 | II230622-6 | .5005 | U      | .497  | mg/L  | 99   | 70     | 130   |     |       |      |
| WG569926CCV1    | CCV  | 07/07/23 22:36 | II230622-7 | 1     |        | .988  | mg/L  | 99   | 90     | 110   |     |       |      |
| WG569926CCB1    | CCB  | 07/07/23 22:39 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| L81454-04LFMD   | LFMD | 07/07/23 22:42 | II230622-6 | .5005 | U      | .497  | mg/L  | 99   | 70     | 130   | 0   | 20    |      |
| WG569926CCV2    | CCV  | 07/07/23 23:13 | II230622-7 | 1     |        | .977  | mg/L  | 98   | 90     | 110   |     |       |      |
| WG569926CCB2    | CCB  | 07/07/23 23:16 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |
| WG569926CCV3    | CCV  | 07/07/23 23:37 | II230622-7 | 1     |        | .896  | mg/L  | 90   | 90     | 110   |     |       |      |
| WG569926CCB3    | CCB  | 07/07/23 23:40 |            |       |        | U     | mg/L  |      | -0.06  | 0.06  |     |       |      |

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Nitrate/Nitrite as N**

M353.2 - H2SO4 preserved

| ACZ ID          | Type | Analyzed      | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569947</b> |      |               |            |       |        |       |       |      |       |       |     |       |      |
| WG569947ICV     | ICV  | 07/08/23 0:25 | WI230701-1 | 2.416 |        | 2.359 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG569947ICB     | ICB  | 07/08/23 0:27 |            |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| <b>WG569950</b> |      |               |            |       |        |       |       |      |       |       |     |       |      |
| WG569950CCV1    | CCV  | 07/08/23 2:33 | WI230705-1 | 2     |        | 2.028 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG569950CCB1    | CCB  | 07/08/23 2:36 |            |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG569950LFB     | LFB  | 07/08/23 2:37 | WI230228-3 | 2     |        | 2.03  | mg/L  | 102  | 90    | 110   |     |       |      |
| WG569950CCV2    | CCV  | 07/08/23 2:50 | WI230705-1 | 2     |        | 2.022 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG569950CCB2    | CCB  | 07/08/23 2:53 |            |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| L81412-03AS     | AS   | 07/08/23 2:59 | WI230228-3 | 2     | .022   | 2.124 | mg/L  | 105  | 90    | 110   |     |       |      |
| L81412-04DUP    | DUP  | 07/08/23 3:02 |            |       | U      | U     | mg/L  |      |       |       | 0   | 20    | RA   |
| WG569950CCV3    | CCV  | 07/08/23 3:07 | WI230705-1 | 2     |        | 2.02  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG569950CCB3    | CCB  | 07/08/23 3:10 |            |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG569950CCV4    | CCV  | 07/08/23 3:19 | WI230705-1 | 2     |        | 2.017 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG569950CCB4    | CCB  | 07/08/23 3:22 |            |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |

**Phosphorus, total**

M365.1 - Auto Ascorbic Acid (digest)

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570345</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG570345ICV     | ICV  | 07/14/23 10:39 | WI230605-6 | .65228 |        | .668  | mg/L  | 102  | 90    | 110   |     |       |      |
| WG570345ICB     | ICB  | 07/14/23 10:42 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| <b>WG570381</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG570381CCV1    | CCV  | 07/14/23 14:08 | WI230605-8 | .5     |        | .481  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG570381CCB1    | CCB  | 07/14/23 14:09 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG569561LRB     | LRB  | 07/14/23 14:10 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG569561LFB     | LFB  | 07/14/23 14:11 | WI230628-5 | .5     |        | .504  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG570381CCV2    | CCV  | 07/14/23 14:21 | WI230605-8 | .5     |        | .489  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG570381CCB2    | CCB  | 07/14/23 14:22 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| L81364-04LFM    | LFM  | 07/14/23 14:29 | 5XPTW      | 2.5    | 1.68   | 4.048 | mg/L  | 95   | 90    | 110   |     |       |      |
| L81398-01DUP    | DUP  | 07/14/23 14:31 |            |        | .094   | .091  | mg/L  |      |       |       | 3   | 20    | RA   |
| WG570381CCV3    | CCV  | 07/14/23 14:34 | WI230605-8 | .5     |        | .494  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG570381CCB3    | CCB  | 07/14/23 14:35 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG570381CCV4    | CCV  | 07/14/23 14:47 | WI230605-8 | .5     |        | .487  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG570381CCB4    | CCB  | 07/14/23 14:49 |            |        |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |

**Residue, Filterable (TDS) @180C**

SM2540C

| ACZ ID          | Type | Analyzed       | PCN/SCN   | QC   | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-----------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569642</b> |      |                |           |      |        |       |       |      |       |       |     |       |      |
| WG569642PBW     | PBW  | 07/04/23 10:47 |           |      |        | U     | mg/L  |      | -20   | 20    |     |       |      |
| WG569642LCSW    | LCSW | 07/04/23 10:49 | PCN625096 | 1000 |        | 982   | mg/L  | 98   | 80    | 120   |     |       |      |
| L81441-05DUP    | DUP  | 07/04/23 11:47 |           |      | 188    | 182   | mg/L  |      |       |       | 3   | 10    | RA   |

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Residue, Non-Filterable (TSS) @105C SM2540D**

| ACZ ID          | Type | Analyzed       | PCN/SCN   | QC  | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-----------|-----|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569418</b> |      |                |           |     |        |       |       |      |       |       |     |       |      |
| WG569418PBW     | PBW  | 06/29/23 13:30 |           |     |        | U     | mg/L  |      | -5    | 5     |     |       |      |
| WG569418LCSW    | LCSW | 06/29/23 13:32 | PCN624434 | 100 |        | 114   | mg/L  | 114  | 80    | 120   |     |       |      |
| L81441-01DUP    | DUP  | 06/29/23 14:17 |           |     | U      | U     | mg/L  |      |       |       | 0   | 10    | RA   |
| <b>WG569544</b> |      |                |           |     |        |       |       |      |       |       |     |       |      |
| WG569544PBW     | PBW  | 07/01/23 11:30 |           |     |        | U     | mg/L  |      | -5    | 5     |     |       |      |
| WG569544LCSW    | LCSW | 07/01/23 11:32 | PCN624433 | 100 |        | 90    | mg/L  | 90   | 80    | 120   |     |       |      |
| L81482-07DUP    | DUP  | 07/01/23 11:56 |           |     | 17     | 19    | mg/L  |      |       |       | 11  | 10    | RA   |

**Silver, dissolved M200.8 ICP-MS**

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570128</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG570128ICV     | ICV  | 07/11/23 16:40 | MS230620-3 | .02     |        | .02177 | mg/L  | 109  | 90       | 110     |     |       |      |
| WG570128ICB     | ICB  | 07/11/23 16:42 |            |         |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG570128LFB     | LFB  | 07/11/23 16:44 | MS230626-2 | .01001  |        | .01075 | mg/L  | 107  | 85       | 115     |     |       |      |
| L81402-04AS     | AS   | 07/11/23 16:53 | MS230626-2 | .01001  | U      | .01064 | mg/L  | 106  | 70       | 130     |     |       |      |
| L81402-04ASD    | ASD  | 07/11/23 16:55 | MS230626-2 | .01001  | U      | .01025 | mg/L  | 102  | 70       | 130     | 4   | 20    |      |
| WG570128CCV1    | CCV  | 07/11/23 16:59 | MS230710-7 | .025025 |        | .02501 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG570128CCB1    | CCB  | 07/11/23 17:00 |            |         |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570128CCV2    | CCV  | 07/11/23 17:20 | MS230710-7 | .025025 |        | .02506 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG570128CCB2    | CCB  | 07/11/23 17:22 |            |         |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570128CCV3    | CCV  | 07/11/23 17:37 | MS230710-7 | .025025 |        | .0249  | mg/L  | 100  | 90       | 110     |     |       |      |
| WG570128CCB3    | CCB  | 07/11/23 17:39 |            |         |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Sulfate D516-02/-07/-11 - TURBIDIMETRIC**

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG570505</b> |      |                |            |    |        |       |       |      |       |       |     |       |      |
| WG570505ICB     | ICB  | 07/18/23 8:49  |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505ICV     | ICV  | 07/18/23 8:49  | WI230714-4 | 20 |        | 21.3  | mg/L  | 107  | 90    | 110   |     |       |      |
| WG570505CCV1    | CCV  | 07/18/23 11:22 | WI230714-5 | 25 |        | 25.8  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB1    | CCB  | 07/18/23 11:22 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505LFB     | LFB  | 07/18/23 11:22 | WI230119-9 | 10 |        | 10.6  | mg/L  | 106  | 90    | 110   |     |       |      |
| WG570505CCV2    | CCV  | 07/18/23 11:24 | WI230714-5 | 25 |        | 25.7  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB2    | CCB  | 07/18/23 11:24 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV3    | CCV  | 07/18/23 11:26 | WI230714-5 | 25 |        | 25.8  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB3    | CCB  | 07/18/23 11:26 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV4    | CCV  | 07/18/23 12:40 | WI230714-5 | 25 |        | 25.8  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB4    | CCB  | 07/18/23 12:40 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| L81414-01DUP    | DUP  | 07/18/23 12:42 |            |    | 136    | 135.6 | mg/L  |      |       |       | 0   | 20    |      |
| L81437-01AS     | AS   | 07/18/23 12:42 | SO4TURB5X  | 10 | 72.3   | 81.9  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG570505CCV5    | CCV  | 07/18/23 12:42 | WI230714-5 | 25 |        | 25.7  | mg/L  | 103  | 90    | 110   |     |       |      |
| WG570505CCB5    | CCB  | 07/18/23 12:42 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV6    | CCV  | 07/18/23 12:46 | WI230714-5 | 25 |        | 26    | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570505CCB6    | CCB  | 07/18/23 12:46 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV7    | CCV  | 07/18/23 13:16 | WI230714-5 | 25 |        | 25.9  | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570505CCB7    | CCB  | 07/18/23 13:16 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |
| WG570505CCV8    | CCV  | 07/18/23 13:17 | WI230714-5 | 25 |        | 25.9  | mg/L  | 104  | 90    | 110   |     |       |      |
| WG570505CCB8    | CCB  | 07/18/23 13:17 |            |    |        | U     | mg/L  |      | -3    | 3     |     |       |      |

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Thallium, total recoverable**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG569903</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG569903ICV     | ICV  | 07/07/23 14:05 | MS230620-3 | .05   |        | .0522  | mg/L  | 104  | 90       | 110     |     |       |      |
| WG569903ICB     | ICB  | 07/07/23 14:07 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG569790LRB     | LRB  | 07/07/23 14:09 |            |       |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG569790LFB     | LFB  | 07/07/23 14:11 | MS230626-2 | .0501 |        | .04892 | mg/L  | 98   | 85       | 115     |     |       |      |
| L81452-05LFM    | LFM  | 07/07/23 14:22 | MS230626-2 | .0501 | U      | .04959 | mg/L  | 99   | 70       | 130     |     |       |      |
| WG569903CCV1    | CCV  | 07/07/23 14:23 | MS230616-2 | .1002 |        | .09946 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG569903CCB1    | CCB  | 07/07/23 14:25 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L81452-05LFMD   | LFMD | 07/07/23 14:27 | MS230626-2 | .0501 | U      | .05008 | mg/L  | 100  | 70       | 130     | 1   | 20    |      |
| WG569903CCV2    | CCV  | 07/07/23 14:38 | MS230616-2 | .1002 |        | .09866 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG569903CCB2    | CCB  | 07/07/23 14:40 |            |       |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Uranium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570012</b> |      |                |            |     |        |        |       |      |          |         |     |       |      |
| WG570012ICV     | ICV  | 07/10/23 14:56 | MS230620-3 | .05 |        | .05036 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG570012ICB     | ICB  | 07/10/23 14:58 |            |     |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG570012LFB     | LFB  | 07/10/23 15:05 | MS230626-2 | .05 |        | .05158 | mg/L  | 103  | 85       | 115     |     |       |      |
| WG570012CCV1    | CCV  | 07/10/23 15:15 | MS230616-2 | .1  |        | .09916 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570012CCB1    | CCB  | 07/10/23 15:16 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570012CCV2    | CCV  | 07/10/23 15:37 | MS230616-2 | .1  |        | .09733 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG570012CCB2    | CCB  | 07/10/23 15:38 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L81461-01AS     | AS   | 07/10/23 15:46 | MS230626-2 | .05 | U      | .05164 | mg/L  | 103  | 70       | 130     |     |       |      |
| L81461-01ASD    | ASD  | 07/10/23 15:48 | MS230626-2 | .05 | U      | .05198 | mg/L  | 104  | 70       | 130     | 1   | 20    |      |
| WG570012CCV3    | CCV  | 07/10/23 15:53 | MS230616-2 | .1  |        | .09854 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG570012CCB3    | CCB  | 07/10/23 15:55 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Uranium, total**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG570050</b> |      |                |            |     |        |        |       |      |          |         |     |       |      |
| WG570050ICV     | ICV  | 07/11/23 11:07 | MS230620-3 | .05 |        | .05026 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG570050ICB     | ICB  | 07/11/23 11:09 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG569667LRB     | LRB  | 07/11/23 11:10 |            |     |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG569667LFB     | LFB  | 07/11/23 11:12 | MS230626-2 | .05 |        | .04886 | mg/L  | 98   | 85       | 115     |     |       |      |
| L81299-01LFM    | LFM  | 07/11/23 11:18 | MS230626-2 | .05 | .00254 | .05339 | mg/L  | 102  | 70       | 130     |     |       |      |
| L81299-01LFMD   | LFMD | 07/11/23 11:19 | MS230626-2 | .05 | .00254 | .05445 | mg/L  | 104  | 70       | 130     | 2   | 20    |      |
| WG570050CCV1    | CCV  | 07/11/23 11:28 | MS230710-7 | .1  |        | .10217 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG570050CCB1    | CCB  | 07/11/23 11:30 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570050CCV2    | CCV  | 07/11/23 11:50 | MS230710-7 | .1  |        | .10207 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG570050CCB2    | CCB  | 07/11/23 11:52 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG570050CCV3    | CCV  | 07/11/23 12:04 | MS230710-7 | .1  |        | .10054 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG570050CCB3    | CCB  | 07/11/23 12:06 |            |     |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

### ENSERO

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

#### Zinc, dissolved

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG569904</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG569904ICV     | ICV  | 07/07/23 19:41 | II230624-1 | 2      |        | 1.912 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG569904ICB     | ICB  | 07/07/23 19:46 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG569904PQV     | PQV  | 07/07/23 19:50 | II230622-2 | .05005 |        | .057  | mg/L  | 114  | 70    | 130   |     |       |      |
| WG569904SIC     | SIC  | 07/07/23 19:53 | II230622-4 | .1001  |        | .101  | mg/L  | 101  | 80    | 120   |     |       |      |
| WG569904LFB     | LFB  | 07/07/23 19:59 | II230622-6 | .50045 |        | .508  | mg/L  | 102  | 85    | 115   |     |       |      |
| WG569904CCV1    | CCV  | 07/07/23 20:31 | II230614-1 | 1      |        | .951  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG569904CCB1    | CCB  | 07/07/23 20:34 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG569904CCV2    | CCV  | 07/07/23 21:08 | II230614-1 | 1      |        | .949  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG569904CCB2    | CCB  | 07/07/23 21:11 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L81441-05AS     | AS   | 07/07/23 21:17 | II230622-6 | .50045 | U      | .479  | mg/L  | 96   | 85    | 115   |     |       |      |
| L81441-05ASD    | ASD  | 07/07/23 21:20 | II230622-6 | .50045 | U      | .541  | mg/L  | 108  | 85    | 115   | 12  | 20    |      |
| WG569904CCV3    | CCV  | 07/07/23 21:29 | II230614-1 | 1      |        | .959  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG569904CCB3    | CCB  | 07/07/23 21:32 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |



Ensero Solutions

ACZ Project ID: **L81441**

| ACZ ID    | WORKNUM  | PARAMETER                           | METHOD                                     | QUAL | DESCRIPTION                                                                                                                                                              |
|-----------|----------|-------------------------------------|--------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L81441-01 | WG569418 | Residue, Non-Filterable (TSS) @105C | SM2540D                                    | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | SM2540D                                    | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           |          |                                     | SM2540D                                    | Z3   | Sample volume yielded a residue less than 2.5 mg                                                                                                                         |
|           |          |                                     | SM2540D                                    | Z5   | Oven temperature observed out of range. Sample and Quality Control attained a consistent weight and all Quality controls were within limits. Reanalyze at client request |
| L81441-02 | WG570589 | Chemical Oxygen Demand              | M410.4                                     | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | M410.4                                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
| L81441-03 | WG569418 | Residue, Non-Filterable (TSS) @105C | SM2540D                                    | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | SM2540D                                    | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           |          |                                     | SM2540D                                    | Z3   | Sample volume yielded a residue less than 2.5 mg                                                                                                                         |
|           |          |                                     | SM2540D                                    | Z4   | Quarterly LOQ sample was outside of acceptance limits. All other batch QC is acceptable.                                                                                 |
| L81441-04 | WG570589 | Chemical Oxygen Demand              | M410.4                                     | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | M410.4                                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
| L81441-05 | WG569744 | Cyanide, WAD                        | SM4500-CN I,E-Colorimetric w/ distillation | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | SM4500-CN I,E-Colorimetric w/ distillation | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           | WG570629 | Fluoride                            | SM4500F-C                                  | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           | WG569950 | Nitrate/Nitrite as N                | M353.2 - H2SO4 preserved                   | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | M353.2 - H2SO4 preserved                   | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           | WG570381 | Phosphorus, total                   | M365.1 - Auto Ascorbic Acid (digest)       | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | M365.1 - Auto Ascorbic Acid (digest)       | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           | WG569642 | Residue, Filterable (TDS) @180C     | SM2540C                                    | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | SM2540C                                    | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           | WG569544 | Residue, Non-Filterable (TSS) @105C | SM2540D                                    | Q6   | Sample was received above recommended temperature.                                                                                                                       |
|           |          |                                     | SM2540D                                    | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).    |
|           | WG570505 | Sulfate                             | SM2540D                                    | Z3   | Sample volume yielded a residue less than 2.5 mg                                                                                                                         |
|           |          |                                     | D516-02/-07/-11 - TURBIDIMETRIC            | Q6   | Sample was received above recommended temperature.                                                                                                                       |

**Ensero Solutions**

Project ID: 3100 PO 1923

Sample ID: SW-BPL

Locator:

ACZ Sample ID: **L81441-05**

Date Sampled: 06/27/23 14:40

Date Received: 06/28/23

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

| Parameter               | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Combined Radium (total) | 07/27/23 11:26 |           | 0      |            |     | pCi/L |    | calc    |

Gross Alpha &amp; Beta, total

Prep Method:

M900.0

| Parameter   | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha | 07/06/23 0:25 |           | 6.2    | 2.7        | 15  | pCi/L | *  | jhd     |
| Gross Beta  | 07/06/23 0:25 |           | 8.4    | 3.4        | 21  | pCi/L | *  | jhd     |

Radium 226, total

Prep Method:

M903.1

| Parameter         | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Radium 226, total | 07/18/23 0:15 |           | 0.67   | 0.23       | 1.2 | pCi/L | *  | ajp     |

Radium 228, total

Prep Method:

M904.0

| Parameter         | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Radium 228, total | 07/07/23 17:54 |           | 0.96   | 1.1        | 2.8 | pCi/L | *  | trt     |

**Report Header Explanations**

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| <i>Batch</i>      | A distinct set of samples analyzed at a specific time                                          |
| <i>Error(+/-)</i> | Calculated sample specific uncertainty                                                         |
| <i>Found</i>      | Value of the QC Type of interest                                                               |
| <i>Limit</i>      | Upper limit for RPD, in %.                                                                     |
| <i>LCL</i>        | Lower Control Limit, in % (except for LCSS, mg/Kg)                                             |
| <i>LLD</i>        | Calculated sample specific Lower Limit of Detection                                            |
| <i>PCN/SCN</i>    | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| <i>PQL</i>        | Practical Quantitation Limit                                                                   |
| <i>QC</i>         | True Value of the Control Sample or the amount added to the Spike                              |
| <i>Rec</i>        | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)               |
| <i>RER</i>        | Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.       |
| <i>RPD</i>        | Relative Percent Difference, calculation used for Duplicate QC Types                           |
| <i>UCL</i>        | Upper Control Limit, in % (except for LCSS, mg/Kg)                                             |
| <i>Sample</i>     | Value of the Sample of interest                                                                |

**QC Sample Types**

|             |                                   |               |                                     |
|-------------|-----------------------------------|---------------|-------------------------------------|
| <i>DUP</i>  | Sample Duplicate                  | <i>MS/MSD</i> | Matrix Spike/Matrix Spike Duplicate |
| <i>LCSS</i> | Laboratory Control Sample - Soil  | <i>PBS</i>    | Prep Blank - Soil                   |
| <i>LCSW</i> | Laboratory Control Sample - Water | <i>PBW</i>    | Prep Blank - Water                  |

**QC Sample Type Explanations**

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Blanks          | Verifies that there is no or minimal contamination in the prep method procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure.               |
| Duplicates      | Verifies the precision of the instrument and/or method.                          |
| Matrix Spikes   | Determines sample matrix interferences, if any.                                  |

**ACZ Qualifiers (Qual)**

|   |                                     |
|---|-------------------------------------|
| H | Analysis exceeded method hold time. |
|---|-------------------------------------|

**Method Prefix Reference**

|     |                                                               |
|-----|---------------------------------------------------------------|
| M   | EPA methodology, including those under SDWA, CWA, and RCRA    |
| SM  | Standard Methods for the Examination of Water and Wastewater. |
| D   | ASTM                                                          |
| RP  | DOE                                                           |
| ESM | DOE/ESM                                                       |

**Comments**

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://aczk.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

**ENSERO**

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

| Alpha           |         | M900.0   |           |     |        |       |     |       |       |     |      | Units: pCi/L |       |         |       |      |
|-----------------|---------|----------|-----------|-----|--------|-------|-----|-------|-------|-----|------|--------------|-------|---------|-------|------|
| ACZ ID          | Type    | Analyzed | PCN/SCN   | QC  | Sample | Error | LLD | Found | Error | LLD | Rec% | Lower        | Upper | RPD/RER | Limit | Qual |
| <b>WG569702</b> |         |          |           |     |        |       |     |       |       |     |      |              |       |         |       |      |
| WG569702PBW     | PBW     | 07/06/23 |           |     |        |       |     | -.29  | 0.74  | 12  |      |              | 24    |         |       |      |
| WG569702LCSWA   | LCSW    | 07/06/23 | PCN624450 | 100 |        |       |     | 100   | 8.7   | 12  | 100  | 67           | 144   |         |       |      |
| L81301-01DUP    | DUP-RPD | 07/06/23 |           |     | -0.55  | 0.57  | 15  | .38   | 1.1   | 7.6 |      |              |       | 1094    | 20    | RG   |
| L81301-01DUP    | DUP-RER | 07/06/23 |           |     | -0.55  | 0.57  | 15  | .38   | 1.1   | 7.6 |      |              |       | 0.75    | 2     |      |
| L81409-02DUP    | DUP-RER | 07/06/23 |           |     | 1.8    | 1.8   | 10  | .65   | 1.2   | 4.9 |      |              |       | 0.53    | 2     |      |
| L81409-02DUP    | DUP-RPD | 07/06/23 |           |     | 1.8    | 1.8   | 10  | .65   | 1.2   | 4.9 |      |              |       | 94      | 20    | RG   |
| L81441-05MSA    | MS      | 07/06/23 | PCN624450 | 100 | 6.2    | 2.7   | 15  | 100   | 9.9   | 15  | 94   | 67           | 144   |         |       |      |

| Beta            |         | M900.0   |             |     |        |       |     |       |       |     |      | Units: pCi/L |       |         |       |      |
|-----------------|---------|----------|-------------|-----|--------|-------|-----|-------|-------|-----|------|--------------|-------|---------|-------|------|
| ACZ ID          | Type    | Analyzed | PCN/SCN     | QC  | Sample | Error | LLD | Found | Error | LLD | Rec% | Lower        | Upper | RPD/RER | Limit | Qual |
| <b>WG569702</b> |         |          |             |     |        |       |     |       |       |     |      |              |       |         |       |      |
| WG569702PBW     | PBW     | 07/06/23 |             |     |        |       |     | 3.5   | 3     | 20  |      |              | 40    |         |       |      |
| WG569702LCSWB   | LCSW    | 07/06/23 | RC230516-10 | 100 |        |       |     | 98    | 6.6   | 7.6 | 98   | 82           | 122   |         |       |      |
| L81301-01DUP    | DUP-RPD | 07/06/23 |             |     | 2.8    | 2.8   | 22  | 5.4   | 2.8   | 7.8 |      |              |       | 63      | 20    | RG   |
| L81301-01DUP    | DUP-RER | 07/06/23 |             |     | 2.8    | 2.8   | 22  | 5.4   | 2.8   | 7.8 |      |              |       | 0.66    | 2     |      |
| L81409-02DUP    | DUP-RPD | 07/06/23 |             |     | 6      | 3.1   | 13  | 3.5   | 2.9   | 10  |      |              |       | 53      | 20    | RG   |
| L81409-02DUP    | DUP-RER | 07/06/23 |             |     | 6      | 3.1   | 13  | 3.5   | 2.9   | 10  |      |              |       | 0.59    | 2     |      |
| L81442-02MSB    | MS      | 07/06/23 | RC230516-10 | 100 | 3.3    | 2.7   | 7.8 | 100   | 6.8   | 5.9 | 97   | 82           | 122   |         |       |      |

| Radium 226, total |         | M903.1   |           |    |        |       |      |       |       |      |      | Units: pCi/L |       |         |       |      |
|-------------------|---------|----------|-----------|----|--------|-------|------|-------|-------|------|------|--------------|-------|---------|-------|------|
| ACZ ID            | Type    | Analyzed | PCN/SCN   | QC | Sample | Error | LLD  | Found | Error | LLD  | Rec% | Lower        | Upper | RPD/RER | Limit | Qual |
| <b>WG569628</b>   |         |          |           |    |        |       |      |       |       |      |      |              |       |         |       |      |
| WG569628LCSW      | LCSW    | 07/18/23 | PCN624896 | 20 |        |       |      | 18    | 0.54  | 0.5  | 90   | 43           | 148   |         |       |      |
| WG569628PBW       | PBW     | 07/18/23 |           |    |        |       |      | .02   | 0.05  | 0.28 |      |              | 0.56  |         |       |      |
| L81439-01DUP      | DUP-RPD | 07/18/23 |           |    | 2.8    | 0.37  | 2.1  | 1.7   | 0.27  | 0.78 |      |              |       | 49      | 20    | RM   |
| L81439-04MS       | MS      | 07/18/23 | PCN624896 | 40 | 0.64   | 0.2   | 0.97 | 48    | 1.4   | 1.1  | 118  | 43           | 148   |         |       |      |
| L81441-05DUP      | DUP-RPD | 07/18/23 |           |    | 0.67   | 0.23  | 1.2  | .55   | 0.2   | 1    |      |              |       | 20      | 20    |      |

ENSERO

ACZ Project ID: **L81441**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Radium 228, total**

M904.0

Units: pCi/L

| ACZ ID          | Type    | Analyzed | PCN/SCN   | QC   | Sample | Error | LLD | Found | Error | LLD | Rec% | Lower | Upper | RPD/RER | Limit | Qual |
|-----------------|---------|----------|-----------|------|--------|-------|-----|-------|-------|-----|------|-------|-------|---------|-------|------|
| <b>WG569452</b> |         |          |           |      |        |       |     |       |       |     |      |       |       |         |       |      |
| WG569452LCSW    | LCSW    | 07/07/23 | PCN623727 | 9.12 |        |       |     | 10    | 1.3   | 2.3 | 110  | 47    | 123   |         |       |      |
| WG569452PBW     | PBW     | 07/07/23 |           |      |        |       |     | 1.4   | 0.81  | 2.2 |      |       | 4.4   |         |       |      |
| L81331-01DUP    | DUP-RER | 07/07/23 |           |      | 3.1    | 3.4   | 8.1 | -.97  | 1.9   | 4.8 |      |       |       | 1.04    | 2     |      |
| L81331-01DUP    | DUP-RPD | 07/07/23 |           |      | 3.1    | 3.4   | 8.1 | -.97  | 1.9   | 4.8 |      |       |       | 382     | 20    | RG   |
| L81441-05MS     | MS      | 07/07/23 | PCN623727 | 9.12 | 0.96   | 1.1   | 2.8 | 13    | 1.7   | 2.9 | 132  | 47    | 123   |         |       | M1   |
| L81442-02DUP    | DUP-RPD | 07/07/23 |           |      | 0.24   | 0.78  | 2   | .24   | 0.89  | 2.1 |      |       |       | 0       | 20    |      |

Ensero Solutions

ACZ Project ID: **L81441**

| ACZ ID    | WORKNUM  | PARAMETER         | METHOD | QUAL | DESCRIPTION                                                                                                                                                    |
|-----------|----------|-------------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L81441-05 | WG569702 | Gross Alpha       | M900.0 | RG   | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |
|           |          | Gross Beta        | M900.0 | RG   | Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control. |
|           | WG569628 | Radium 226, total | M903.1 | D1   | Sample required dilution due to matrix.                                                                                                                        |
|           | WG569452 | Radium 228, total | M904.0 | M1   | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                     |
|           |          |                   |        |      |                                                                                                                                                                |

**Ensero Solutions**

ACZ Project ID: **L81441**

No certification qualifiers associated with this analysis

Ensero Solutions  
3100 PO 1923

ACZ Project ID: L81441  
Date Received: 06/28/2023 11:34  
Received By:  
Date Printed: 6/29/2023

#### Receipt Verification

|                                                                                             | YES                                 | NO                                  | NA                                  |
|---------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1) Is a foreign soil permit included for applicable samples?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2) Is the Chain of Custody form or other directive shipping papers present?                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3) Does this project require special handling procedures such as CLP protocol?              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4) Are any samples NRC licensable material?                                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6) Is the Chain of Custody form complete and accurate?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

#### Samples/Containers

|                                                                                         | YES                                 | NO                       | NA                                  |
|-----------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 8) Are all containers intact and with no leaks?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9) Are all labels on containers and are they intact and legible?                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 12) Is there sufficient sample volume to perform all requested work?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13) Is the custody seal intact on all containers?                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14) Are samples that require zero headspace acceptable?                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15) Are all sample containers appropriate for analytical requirements?                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 16) Is there an Hg-1631 trip blank present?                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17) Is there a VOA trip blank present?                                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18) Were all samples received within hold time?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

NA indicates Not Applicable

#### Chain of Custody Related Remarks

#### Client Contact Remarks

#### Shipping Containers

| Cooler Id | Temp (°C) | Temp<br>Criteria (°C) | Rad (µR/Hr) | Custody Seal<br>Intact? |
|-----------|-----------|-----------------------|-------------|-------------------------|
| -----     | -----     | -----                 | -----       | -----                   |
| 6888      | 7.6       | <=6.0                 | 15          | Yes                     |

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.



Ensero Solutions  
3100 PO 1923

ACZ Project ID: L81441

Date Received: 06/28/2023 11:34

Received By:

Date Printed: 6/29/2023

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

81441

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Nate Lambert

Company: Ensero Solutions

E-mail: nlambert@ensero.com

Address: 333 W. Hampden Ave. Ste. 935

Denver, CO 80110

Telephone: 719-281-7594

Copy of Report to:

Name: Ainsley Stewart

Company: Ensero Solutions

E-mail: astewart@ensero.com

Telephone: 306-978-3111

Invoice to:

Name: Pauline Wong

Company: Ensero Solutions

E-mail: ap@ensero.com

Address: 333 W. Hampden Ave. 935

Denver, CO 80110

Telephone: 778-404-1182

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES

NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring?

Yes

No

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Tyler F.

Sampler's Site Information

State CO

Zip code 80401

Time Zone MTN

\*Sampler's Signature:

\*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Ensero-2023

PO#: 3100-PO#1923

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material?

SAMPLE IDENTIFICATION

DATE:TIME

Matrix

# of Containers

Sample Suite #1  
(Discharge Sample)

Sample Suite #2  
(NOV/CDO Samples)

Sample Suite #3  
(DRMS Samples)

Chemical Oxygen  
Demand (M410.4)

Total Suspended Solids  
(SM2540D)

Total Dissolved Solids  
(SM2540C)

LLHG Trip Blank

|         |                |    |   |                          |                                     |                          |                                     |                                     |                          |                          |                          |
|---------|----------------|----|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| DIS001A | 2023JUN23-1600 | WW | 1 | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DIS001A | 2023JUN23-1500 | WW | 1 | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DIS001A | 2023JUN26-1530 | WW | 1 | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DIS001A | 2023JUN26-1530 | WW | 1 | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SW-BPL  | 2023JUN27-1440 | SW | 8 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |                |    |   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |                |    |   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |                |    |   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |                |    |   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |                |    |   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |                |    |   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please email reports to importer@alexco.ehsdata.com

Cooler 1 of 2

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Tyler F. Ensero

6-27-23/17:30

Mr. G. G. G.

6/28/23 11:34

FRMAD050.06.14.14

White - Return with sample. Yellow - Retain for your records.

81441-2307271351