

### Hit Summary Sheet SW-846

**SDG No.:** Q2818 **Order ID:** Q2818  
**Client:** Earth Engineering Inc. **Project ID:** Reserve Turgyan Farms

| Sample ID                  | Client ID | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|----------------------------|-----------|--------|-----------|---------------|---|--------|-------|-------|
| <b>Client ID : B-2-5-1</b> |           |        |           |               |   |        |       |       |
| Q2818-01                   | B-2-5-1   | SOIL   | Aluminum  | 5490          |   | 0.82   | 4.88  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Arsenic   | 12.0          |   | 0.19   | 0.98  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Barium    | 40.4          |   | 0.71   | 4.88  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Beryllium | 0.99          |   | 0.024  | 0.29  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Cadmium   | 1.31          |   | 0.023  | 0.29  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Calcium   | 1720          |   | 10.8   | 97.7  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Chromium  | 54.0          |   | 0.046  | 0.49  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Cobalt    | 4.33          |   | 0.098  | 1.47  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Copper    | 25.2          |   | 0.22   | 0.98  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Iron      | 26400         |   | 3.90   | 4.88  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Lead      | 16.4          |   | 0.13   | 0.59  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Magnesium | 622           |   | 11.7   | 97.7  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Manganese | 101           |   | 0.14   | 0.98  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Mercury   | 0.14          |   | 0.0090 | 0.015 | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Nickel    | 8.31          |   | 0.13   | 1.95  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Potassium | 1130          |   | 27.1   | 97.7  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Selenium  | 0.64          | J | 0.25   | 0.98  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Silver    | 0.75          |   | 0.12   | 0.49  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Sodium    | 128           |   | 17.4   | 97.7  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Vanadium  | 55.0          |   | 0.24   | 1.95  | mg/Kg |
| Q2818-01                   | B-2-5-1   | SOIL   | Zinc      | 77.2          |   | 0.23   | 1.95  | mg/Kg |
| <b>Client ID : B-3-5-2</b> |           |        |           |               |   |        |       |       |
| Q2818-02                   | B-3-5-2   | SOIL   | Aluminum  | 5230          |   | 0.81   | 4.82  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Arsenic   | 12.3          |   | 0.18   | 0.96  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Barium    | 36.6          |   | 0.70   | 4.82  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Beryllium | 0.97          |   | 0.024  | 0.29  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Cadmium   | 1.31          |   | 0.023  | 0.29  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Calcium   | 1580          |   | 10.7   | 96.3  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Chromium  | 52.9          |   | 0.045  | 0.48  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Cobalt    | 4.12          |   | 0.096  | 1.45  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Copper    | 22.9          |   | 0.21   | 0.96  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Iron      | 25700         |   | 3.84   | 4.82  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Lead      | 18.6          |   | 0.13   | 0.58  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Magnesium | 567           |   | 11.6   | 96.3  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Manganese | 93.1          |   | 0.14   | 0.96  | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Mercury   | 0.083         |   | 0.0080 | 0.015 | mg/Kg |
| Q2818-02                   | B-3-5-2   | SOIL   | Nickel    | 8.04          |   | 0.13   | 1.93  | mg/Kg |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q2818

**Order ID:** Q2818

**Client:** Earth Engineering Inc.

**Project ID:** Reserve Turgyan Farms

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL  | RDL  | Units |
|-----------|-----------|--------|-----------|---------------|---|------|------|-------|
| Q2818-02  | B-3-5-2   | SOIL   | Potassium | 1050          |   | 26.7 | 96.3 | mg/Kg |
| Q2818-02  | B-3-5-2   | SOIL   | Selenium  | 0.62          | J | 0.25 | 0.96 | mg/Kg |
| Q2818-02  | B-3-5-2   | SOIL   | Silver    | 0.72          |   | 0.12 | 0.48 | mg/Kg |
| Q2818-02  | B-3-5-2   | SOIL   | Sodium    | 118           |   | 17.1 | 96.3 | mg/Kg |
| Q2818-02  | B-3-5-2   | SOIL   | Vanadium  | 54.6          |   | 0.24 | 1.93 | mg/Kg |
| Q2818-02  | B-3-5-2   | SOIL   | Zinc      | 71.2          |   | 0.22 | 1.93 | mg/Kg |



# SAMPLE DATA

## Report of Analysis

|                   |                        |                 |          |
|-------------------|------------------------|-----------------|----------|
| Client:           | Earth Engineering Inc. | Date Collected: | 08/11/25 |
| Project:          | Reserve Turgyan Farms  | Date Received:  | 08/11/25 |
| Client Sample ID: | B-2-5-1                | SDG No.:        | Q2818    |
| Lab Sample ID:    | Q2818-01               | Matrix:         | SOIL     |
| Level (low/med):  | low                    | % Solid:        | 87.5     |

| Cas       | Parameter | Conc. | Qua. | DF | MDL    | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|--------|------------|-------------------|----------------|----------------|----------|-----------|
| 7429-90-5 | Aluminum  | 5490  |      | 1  | 0.82   | 4.88       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-36-0 | Antimony  | 0.22  | UN   | 1  | 0.22   | 2.44       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-38-2 | Arsenic   | 12.0  | N    | 1  | 0.19   | 0.98       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-39-3 | Barium    | 40.4  |      | 1  | 0.71   | 4.88       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-41-7 | Beryllium | 0.99  | N    | 1  | 0.024  | 0.29       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-43-9 | Cadmium   | 1.31  |      | 1  | 0.023  | 0.29       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-70-2 | Calcium   | 1720  |      | 1  | 10.8   | 97.7       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-47-3 | Chromium  | 54.0  | N    | 1  | 0.046  | 0.49       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-48-4 | Cobalt    | 4.33  |      | 1  | 0.098  | 1.47       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-50-8 | Copper    | 25.2  |      | 1  | 0.22   | 0.98       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7439-89-6 | Iron      | 26400 | *    | 1  | 3.90   | 4.88       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7439-92-1 | Lead      | 16.4  |      | 1  | 0.13   | 0.59       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7439-95-4 | Magnesium | 622   |      | 1  | 11.7   | 97.7       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7439-96-5 | Manganese | 101   |      | 1  | 0.14   | 0.98       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7439-97-6 | Mercury   | 0.14  |      | 1  | 0.0090 | 0.015      | mg/Kg             | 08/11/25 16:30 | 08/12/25 11:03 | 7471B    |           |
| 7440-02-0 | Nickel    | 8.31  |      | 1  | 0.13   | 1.95       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-09-7 | Potassium | 1130  | N    | 1  | 27.1   | 97.7       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7782-49-2 | Selenium  | 0.64  | JN   | 1  | 0.25   | 0.98       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-22-4 | Silver    | 0.75  | N    | 1  | 0.12   | 0.49       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-23-5 | Sodium    | 128   |      | 1  | 17.4   | 97.7       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-28-0 | Thallium  | 0.23  | UN   | 1  | 0.23   | 1.95       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-62-2 | Vanadium  | 55.0  | N*   | 1  | 0.24   | 1.95       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |
| 7440-66-6 | Zinc      | 77.2  |      | 1  | 0.23   | 1.95       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:11 | 6010D    | SW3050    |

|               |            |                 |            |        |
|---------------|------------|-----------------|------------|--------|
| Color Before: | Brown      | Clarity Before: | Texture:   | Medium |
| Color After:  | Yellow     | Clarity After:  | Artifacts: |        |
| Comments:     | TCL+30/TAL |                 |            |        |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

|                   |                        |                 |          |
|-------------------|------------------------|-----------------|----------|
| Client:           | Earth Engineering Inc. | Date Collected: | 08/11/25 |
| Project:          | Reserve Turgyan Farms  | Date Received:  | 08/11/25 |
| Client Sample ID: | B-3-5-2                | SDG No.:        | Q2818    |
| Lab Sample ID:    | Q2818-02               | Matrix:         | SOIL     |
| Level (low/med):  | low                    | % Solid:        | 89.1     |

| Cas       | Parameter | Conc. | Qua. | DF | MDL    | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|--------|------------|-------------------|----------------|----------------|----------|-----------|
| 7429-90-5 | Aluminum  | 5230  |      | 1  | 0.81   | 4.82       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-36-0 | Antimony  | 0.21  | UN   | 1  | 0.21   | 2.41       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-38-2 | Arsenic   | 12.3  | N    | 1  | 0.18   | 0.96       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-39-3 | Barium    | 36.6  |      | 1  | 0.70   | 4.82       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-41-7 | Beryllium | 0.97  | N    | 1  | 0.024  | 0.29       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-43-9 | Cadmium   | 1.31  |      | 1  | 0.023  | 0.29       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-70-2 | Calcium   | 1580  |      | 1  | 10.7   | 96.3       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-47-3 | Chromium  | 52.9  | N    | 1  | 0.045  | 0.48       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-48-4 | Cobalt    | 4.12  |      | 1  | 0.096  | 1.45       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-50-8 | Copper    | 22.9  |      | 1  | 0.21   | 0.96       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7439-89-6 | Iron      | 25700 | *    | 1  | 3.84   | 4.82       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7439-92-1 | Lead      | 18.6  |      | 1  | 0.13   | 0.58       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7439-95-4 | Magnesium | 567   |      | 1  | 11.6   | 96.3       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7439-96-5 | Manganese | 93.1  |      | 1  | 0.14   | 0.96       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7439-97-6 | Mercury   | 0.083 |      | 1  | 0.0080 | 0.015      | mg/Kg             | 08/11/25 16:30 | 08/12/25 11:06 | 7471B    |           |
| 7440-02-0 | Nickel    | 8.04  |      | 1  | 0.13   | 1.93       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-09-7 | Potassium | 1050  | N    | 1  | 26.7   | 96.3       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7782-49-2 | Selenium  | 0.62  | JN   | 1  | 0.25   | 0.96       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-22-4 | Silver    | 0.72  | N    | 1  | 0.12   | 0.48       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-23-5 | Sodium    | 118   |      | 1  | 17.1   | 96.3       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-28-0 | Thallium  | 0.22  | UN   | 1  | 0.22   | 1.93       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-62-2 | Vanadium  | 54.6  | N*   | 1  | 0.24   | 1.93       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |
| 7440-66-6 | Zinc      | 71.2  |      | 1  | 0.22   | 1.93       | mg/Kg             | 08/12/25 12:55 | 08/13/25 14:16 | 6010D    | SW3050    |

|               |            |                 |            |        |
|---------------|------------|-----------------|------------|--------|
| Color Before: | Brown      | Clarity Before: | Texture:   | Medium |
| Color After:  | Yellow     | Clarity After:  | Artifacts: |        |
| Comments:     | TCL+30/TAL |                 |            |        |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

**Metals**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|------|----|------------------|------------------|---------------|
| ICB08     | Mercury | 0.076          | +/-0.2              | U            | 0.20 | CV | 08/12/2025       | 10:01            | LB136782      |

**Metals**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|------|----|------------------|------------------|---------------|
| CCB22     | Mercury | 0.076          | +/-0.2              | U            | 0.20 | CV | 08/12/2025       | 10:08            | LB136782      |
| CCB23     | Mercury | 0.076          | +/-0.2              | U            | 0.20 | CV | 08/12/2025       | 11:21            | LB136782      |
| CCB24     | Mercury | 0.076          | +/-0.2              | U            | 0.20 | CV | 08/12/2025       | 11:54            | LB136782      |
| CCB25     | Mercury | 0.076          | +/-0.2              | U            | 0.20 | CV | 08/12/2025       | 12:37            | LB136782      |
| CCB26     | Mercury | 0.076          | +/-0.2              | U            | 0.20 | CV | 08/12/2025       | 13:00            | LB136782      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| ICB01     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 12:33            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 12:33            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 12:33            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 12:33            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 12:33            | LB136801      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB01     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 13:03            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 13:03            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 13:03            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:03            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:03            | LB136801      |
| CCB02     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 13:46            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 13:46            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 13:46            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 13:46            | LB136801      |

## Metals

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Earth Engineering Inc.

SDG No.: Q2818

Contract: EARTH03

Lab Code: ACE

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB02     | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:46            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 13:46            | LB136801      |
| CCB03     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 14:37            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 14:37            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 14:37            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 14:37            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 14:37            | LB136801      |
| CCB04     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 15:27            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 15:27            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 15:27            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 15:27            | LB136801      |

## Metals

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Earth Engineering Inc.

SDG No.: Q2818

Contract: EARTH03

Lab Code: ACE

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB04     | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 15:27            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 15:27            | LB136801      |
| CCB05     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 16:19            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 16:19            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 16:19            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 16:19            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 16:19            | LB136801      |
| CCB06     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 17:09            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 17:09            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:09            | LB136801      |

# Metals

- 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Earth Engineering Inc.

SDG No.: Q2818

Contract: EARTH03

Lab Code: ACE

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB06     | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 17:09            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:09            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:09            | LB136801      |
| CCB07     | Aluminum  | 11.3           | +/-50               | U            | 100  | P | 08/13/2025       | 17:50            | LB136801      |
|           | Antimony  | 6.76           | +/-25               | U            | 50.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Arsenic   | 5.12           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Barium    | 14.6           | +/-50               | U            | 100  | P | 08/13/2025       | 17:50            | LB136801      |
|           | Beryllium | 0.56           | +/-3                | U            | 6.00 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Cadmium   | 0.50           | +/-3                | U            | 6.00 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Calcium   | 234            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Chromium  | 2.12           | +/-5                | U            | 10.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Cobalt    | 2.26           | +/-15               | U            | 30.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Copper    | 4.60           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Iron      | 23.4           | +/-50               | U            | 100  | P | 08/13/2025       | 17:50            | LB136801      |
|           | Lead      | 2.30           | +/-6                | U            | 12.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Magnesium | 244            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Manganese | 5.94           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Nickel    | 3.06           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Potassium | 918            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Selenium  | 9.64           | +/-10               | U            | 20.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Silver    | 1.62           | +/-5                | U            | 10.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Sodium    | 868            | +/-1000             | U            | 2000 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Thallium  | 4.38           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Vanadium  | 6.26           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:50            | LB136801      |
|           | Zinc      | 16.7           | +/-20               | U            | 40.0 | P | 08/13/2025       | 17:50            | LB136801      |

**Metals**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Instrument:** CV1

| Sample ID         | Analyte | Result<br>(mg/Kg) | Acceptance<br>Limit | Conc<br>Qual         | CRQL<br>mg/Kg   | M  | Analysis<br>Date  | Analysis<br>Time  | Run      |
|-------------------|---------|-------------------|---------------------|----------------------|-----------------|----|-------------------|-------------------|----------|
| <b>PB169204BL</b> |         | <b>SOLID</b>      |                     | <b>Batch Number:</b> | <b>PB169204</b> |    | <b>Prep Date:</b> | <b>08/11/2025</b> |          |
|                   | Mercury | 0.0080            | <0.014              | U                    | 0.014           | CV | 08/12/2025        | 10:46             | LB136782 |

**Metals**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Instrument:** P4

| Sample ID         | Analyte      | Result<br>(mg/Kg) | Acceptance<br>Limit | Conc<br>Qual         | CRQL<br>mg/Kg   | M | Analysis<br>Date  | Analysis<br>Time  | Run      |
|-------------------|--------------|-------------------|---------------------|----------------------|-----------------|---|-------------------|-------------------|----------|
| <b>PB169211BL</b> | <b>SOLID</b> |                   |                     | <b>Batch Number:</b> | <b>PB169211</b> |   | <b>Prep Date:</b> | <b>08/12/2025</b> |          |
|                   | Aluminum     | 0.84              | <2.5                | U                    | 5.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Antimony     | 0.22              | <1.25               | U                    | 2.50            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Arsenic      | 0.19              | <0.5                | U                    | 1.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Barium       | 0.73              | <2.5                | U                    | 5.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Beryllium    | 0.025             | <0.15               | U                    | 0.30            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Cadmium      | 0.024             | <0.15               | U                    | 0.30            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Calcium      | 11.1              | <50                 | U                    | 100             | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Chromium     | 0.047             | <0.25               | U                    | 0.50            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Cobalt       | 0.10              | <0.75               | U                    | 1.50            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Copper       | 0.22              | <0.5                | U                    | 1.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Iron         | 3.99              | <2.5                | U                    | 5.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Lead         | 0.13              | <0.3                | U                    | 0.60            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Magnesium    | 12.0              | <50                 | U                    | 100             | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Manganese    | 0.14              | <0.5                | U                    | 1.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Nickel       | 0.13              | <1                  | U                    | 2.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Potassium    | 27.7              | <50                 | U                    | 100             | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Selenium     | 0.26              | <0.5                | U                    | 1.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Silver       | 0.12              | <0.25               | U                    | 0.50            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Sodium       | 17.8              | <50                 | U                    | 100             | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Thallium     | 0.23              | <1                  | U                    | 2.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Vanadium     | 0.25              | <1                  | U                    | 2.00            | P | 08/13/2025        | 15:06             | LB136801 |
|                   | Zinc         | 0.23              | <1                  | U                    | 2.00            | P | 08/13/2025        | 15:06             | LB136801 |



# METAL CALIBRATION DATA

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|----|------------------|------------------|---------------|
| ICV08     | Mercury | 4.39           | 4.0        | 110           | 90 - 110                  | CV | 08/12/2025       | 09:56            | LB136782      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|----|------------------|------------------|---------------|
| CCV22     | Mercury | 5.22           | 5.0        | 104           | 90 - 110                  | CV | 08/12/2025       | 10:03            | LB136782      |
| CCV23     | Mercury | 5.26           | 5.0        | 105           | 90 - 110                  | CV | 08/12/2025       | 11:11            | LB136782      |
| CCV24     | Mercury | 5.28           | 5.0        | 106           | 90 - 110                  | CV | 08/12/2025       | 11:51            | LB136782      |
| CCV25     | Mercury | 5.14           | 5.0        | 103           | 90 - 110                  | CV | 08/12/2025       | 12:32            | LB136782      |
| CCV26     | Mercury | 4.84           | 5.0        | 97            | 90 - 110                  | CV | 08/12/2025       | 12:55            | LB136782      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| ICV01     | Aluminum  | 7680           | 8000       | 96            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Antimony  | 4000           | 4000       | 100           | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Arsenic   | 3870           | 4000       | 97            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Barium    | 7790           | 8000       | 97            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Beryllium | 189            | 200        | 95            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Cadmium   | 1920           | 2000       | 96            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Calcium   | 19200          | 20000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Chromium  | 788            | 800        | 98            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Cobalt    | 1950           | 2000       | 98            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Copper    | 997            | 1000       | 100           | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Iron      | 3950           | 4000       | 99            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Lead      | 3770           | 4000       | 94            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Magnesium | 19100          | 20000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Manganese | 1920           | 2000       | 96            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Nickel    | 1950           | 2000       | 97            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Potassium | 19400          | 20000      | 97            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Selenium  | 3880           | 4000       | 97            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Silver    | 1030           | 1000       | 103           | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Sodium    | 19100          | 20000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Thallium  | 3750           | 4000       | 94            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Vanadium  | 1940           | 2000       | 97            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |
|           | Zinc      | 1950           | 2000       | 98            | 90 - 110                  | P | 08/13/2025       | 12:21            | LB136801      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| LLICV01   | Aluminum  | 95.1           | 100        | 95            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Antimony  | 50.1           | 50.0       | 100           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Arsenic   | 21.3           | 20.0       | 106           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Barium    | 94.7           | 100        | 95            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Beryllium | 6.08           | 6.0        | 101           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Cadmium   | 5.59           | 6.0        | 93            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Calcium   | 2040           | 2000       | 102           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Chromium  | 10.5           | 10.0       | 105           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Cobalt    | 29.4           | 30.0       | 98            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Copper    | 21.3           | 20.0       | 107           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Iron      | 107            | 100        | 107           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Lead      | 11.2           | 12.0       | 93            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Magnesium | 2120           | 2000       | 106           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Manganese | 21.0           | 20.0       | 105           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Nickel    | 39.6           | 40.0       | 99            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Potassium | 1990           | 2000       | 100           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Selenium  | 19.2           | 20.0       | 96            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Silver    | 10.1           | 10.0       | 101           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Sodium    | 1850           | 2000       | 92            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Thallium  | 43.0           | 40.0       | 107           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Vanadium  | 38.9           | 40.0       | 97            | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |
|           | Zinc      | 42.4           | 40.0       | 106           | 80 - 120                  | P | 08/13/2025       | 12:28            | LB136801      |

## Metals

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Earth Engineering Inc.

SDG No.: Q2818

Contract: EARTH03

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV01     | Aluminum  | 9630           | 10000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Antimony  | 4930           | 5000       | 99            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Arsenic   | 4900           | 5000       | 98            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Barium    | 9640           | 10000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Beryllium | 240            | 250        | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Cadmium   | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Calcium   | 24100          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Chromium  | 1000           | 1000       | 100           | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Cobalt    | 2420           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Copper    | 1230           | 1250       | 98            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Iron      | 5030           | 5000       | 101           | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Lead      | 4860           | 5000       | 97            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Magnesium | 24000          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Manganese | 2390           | 2500       | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Nickel    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Potassium | 25000          | 25000      | 100           | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Selenium  | 4930           | 5000       | 98            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Silver    | 1230           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Sodium    | 24600          | 25000      | 99            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Thallium  | 4820           | 5000       | 96            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Vanadium  | 2420           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
|           | Zinc      | 2490           | 2500       | 99            | 90 - 110                  | P | 08/13/2025       | 12:58            | LB136801      |
| CCV02     | Aluminum  | 9700           | 10000      | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Antimony  | 4970           | 5000       | 99            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Arsenic   | 4950           | 5000       | 99            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Barium    | 9660           | 10000      | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Beryllium | 240            | 250        | 96            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Cadmium   | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Calcium   | 24200          | 25000      | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Chromium  | 987            | 1000       | 99            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Cobalt    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Copper    | 1230           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Iron      | 4980           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Lead      | 4850           | 5000       | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |

# Metals

- 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Earth Engineering Inc.

SDG No.: Q2818

Contract: EARTH03

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV02     | Magnesium | 24100          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Manganese | 2420           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Nickel    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Potassium | 24600          | 25000      | 98            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Selenium  | 4980           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Silver    | 1240           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Sodium    | 24100          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Thallium  | 4960           | 5000       | 99            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Vanadium  | 2450           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
|           | Zinc      | 2460           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 13:42            | LB136801      |
| CCV03     | Aluminum  | 9650           | 10000      | 96            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Antimony  | 5020           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Arsenic   | 4990           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Barium    | 9670           | 10000      | 97            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Beryllium | 238            | 250        | 95            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Cadmium   | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Calcium   | 24100          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Chromium  | 993            | 1000       | 99            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Cobalt    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Copper    | 1240           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Iron      | 5010           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Lead      | 4860           | 5000       | 97            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Magnesium | 23900          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Manganese | 2390           | 2500       | 96            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Nickel    | 2440           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Potassium | 24700          | 25000      | 99            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Selenium  | 5020           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Silver    | 1240           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Sodium    | 23300          | 25000      | 93            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Thallium  | 4820           | 5000       | 96            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Vanadium  | 2450           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
|           | Zinc      | 2480           | 2500       | 99            | 90 - 110                  | P | 08/13/2025       | 14:33            | LB136801      |
| CCV04     | Aluminum  | 9760           | 10000      | 98            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Antimony  | 5060           | 5000       | 101           | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |

## Metals

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Earth Engineering Inc.

SDG No.: Q2818

Contract: EARTH03

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV04     | Arsenic   | 5010           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Barium    | 9660           | 10000      | 97            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Beryllium | 239            | 250        | 96            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Cadmium   | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Calcium   | 24300          | 25000      | 97            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Chromium  | 991            | 1000       | 99            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Cobalt    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Copper    | 1240           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Iron      | 5000           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Lead      | 4860           | 5000       | 97            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Magnesium | 24200          | 25000      | 97            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Manganese | 2390           | 2500       | 96            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Nickel    | 2440           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Potassium | 24700          | 25000      | 99            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Selenium  | 5070           | 5000       | 101           | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Silver    | 1240           | 1250       | 99            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Sodium    | 23700          | 25000      | 95            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Thallium  | 4760           | 5000       | 95            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Vanadium  | 2470           | 2500       | 99            | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
|           | Zinc      | 2500           | 2500       | 100           | 90 - 110                  | P | 08/13/2025       | 15:23            | LB136801      |
| CCV05     | Aluminum  | 9690           | 10000      | 97            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Antimony  | 5090           | 5000       | 102           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Arsenic   | 5010           | 5000       | 100           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Barium    | 9840           | 10000      | 98            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Beryllium | 235            | 250        | 94            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Cadmium   | 2400           | 2500       | 96            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Calcium   | 24100          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Chromium  | 991            | 1000       | 99            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Cobalt    | 2420           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Copper    | 1240           | 1250       | 100           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Iron      | 5090           | 5000       | 102           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Lead      | 4810           | 5000       | 96            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Magnesium | 23800          | 25000      | 95            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Manganese | 2380           | 2500       | 95            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV05     | Nickel    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Potassium | 25000          | 25000      | 100           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Selenium  | 5070           | 5000       | 101           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Silver    | 1250           | 1250       | 100           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Sodium    | 23800          | 25000      | 95            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Thallium  | 4540           | 5000       | 91            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Vanadium  | 2460           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
|           | Zinc      | 2510           | 2500       | 101           | 90 - 110                  | P | 08/13/2025       | 16:14            | LB136801      |
| CCV06     | Aluminum  | 9690           | 10000      | 97            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Antimony  | 5110           | 5000       | 102           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Arsenic   | 5040           | 5000       | 101           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Barium    | 9810           | 10000      | 98            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Beryllium | 238            | 250        | 95            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Cadmium   | 2420           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Calcium   | 24100          | 25000      | 97            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Chromium  | 988            | 1000       | 99            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Cobalt    | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Copper    | 1250           | 1250       | 100           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Iron      | 5070           | 5000       | 102           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Lead      | 4850           | 5000       | 97            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Magnesium | 24000          | 25000      | 96            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Manganese | 2400           | 2500       | 96            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Nickel    | 2440           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Potassium | 24800          | 25000      | 99            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Selenium  | 5150           | 5000       | 103           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Silver    | 1260           | 1250       | 100           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Sodium    | 23300          | 25000      | 93            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Thallium  | 5380           | 5000       | 108           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Vanadium  | 2460           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
|           | Zinc      | 2520           | 2500       | 101           | 90 - 110                  | P | 08/13/2025       | 17:05            | LB136801      |
| CCV07     | Aluminum  | 9840           | 10000      | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Antimony  | 5120           | 5000       | 102           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Arsenic   | 5060           | 5000       | 101           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Barium    | 9850           | 10000      | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Earth Engineering Inc.  
**Contract:** EARTH03  
**Initial Calibration Source:** EPA  
**Continuing Calibration Source:** Inorganic Ventures

**SDG No.:** Q2818  
**Lab Code:** ACE

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV07     | Beryllium | 241            | 250        | 96            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Cadmium   | 2440           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Calcium   | 24600          | 25000      | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Chromium  | 1010           | 1000       | 101           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Cobalt    | 2450           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Copper    | 1250           | 1250       | 100           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Iron      | 5140           | 5000       | 103           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Lead      | 4880           | 5000       | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Magnesium | 24400          | 25000      | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Manganese | 2430           | 2500       | 97            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Nickel    | 2460           | 2500       | 98            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Potassium | 24800          | 25000      | 99            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Selenium  | 5160           | 5000       | 103           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Silver    | 1260           | 1250       | 100           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Sodium    | 23600          | 25000      | 95            | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Thallium  | 5360           | 5000       | 107           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Vanadium  | 2490           | 2500       | 100           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |
|           | Zinc      | 2530           | 2500       | 101           | 90 - 110                  | P | 08/13/2025       | 17:46            | LB136801      |

**Metals**

**- 2b -**

**CRDL STANDARD FOR AA & ICP**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Initial Calibration Source:** \_\_\_\_\_

**Continuing Calibration Source:** \_\_\_\_\_

| Sample ID    | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|--------------|-----------|----------------|--------------------|---------------|---------------------------|----|------------------|------------------|---------------|
| <b>CRA</b>   | Mercury   | 0.23           | 0.2                | 113           | 70 - 130                  | CV | 08/12/2025       | 10:34            | LB136782      |
| <b>CRI01</b> | Aluminum  | 92.9           | 100                | 93            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Antimony  | 50.2           | 50.0               | 100           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Arsenic   | 20.6           | 20.0               | 103           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Barium    | 93.9           | 100                | 94            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Beryllium | 6.01           | 6.0                | 100           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Cadmium   | 5.49           | 6.0                | 92            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Calcium   | 2010           | 2000               | 100           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Chromium  | 10.00          | 10.0               | 100           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Cobalt    | 29.0           | 30.0               | 97            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Copper    | 20.9           | 20.0               | 104           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Iron      | 95.9           | 100                | 96            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Lead      | 10.0           | 12.0               | 83            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Magnesium | 2120           | 2000               | 106           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Manganese | 20.8           | 20.0               | 104           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Nickel    | 38.7           | 40.0               | 97            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Potassium | 1930           | 2000               | 97            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Selenium  | 21.1           | 20.0               | 106           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Silver    | 10.3           | 10.0               | 103           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Sodium    | 1810           | 2000               | 91            | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Thallium  | 40.7           | 40.0               | 102           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Vanadium  | 42.3           | 40.0               | 106           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |
|              | Zinc      | 41.0           | 40.0               | 102           | 65 - 135                  | P  | 08/13/2025       | 12:37            | LB136801      |

**Metals**  
- 4 -  
**INTERFERENCE CHECK SAMPLE**

|                                              |                                 |
|----------------------------------------------|---------------------------------|
| <b>Client:</b> <u>Earth Engineering Inc.</u> | <b>SDG No.:</b> <u>Q2818</u>    |
| <b>Contract:</b> <u>EARTH03</u>              | <b>Lab Code:</b> <u>ACE</u>     |
| <b>ICS Source:</b> <u>EPA</u>                | <b>Instrument ID:</b> <u>P4</u> |

| Sample ID | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSA01    | Aluminum  | 240000         | 255000             | 94            | 216000                 | 294000                  | 08/13/2025       | 12:41            | LB136801      |
|           | Antimony  | -4.82          |                    |               | -50                    | 50                      | 08/13/2025       | 12:41            | LB136801      |
|           | Arsenic   | 13.5           |                    |               | -20                    | 20                      | 08/13/2025       | 12:41            | LB136801      |
|           | Barium    | -0.47          | 6.0                | 8             | -94                    | 106                     | 08/13/2025       | 12:41            | LB136801      |
|           | Beryllium | 1.31           |                    |               | -6                     | 6                       | 08/13/2025       | 12:41            | LB136801      |
|           | Cadmium   | 2.33           | 1.0                | 233           | -5                     | 7                       | 08/13/2025       | 12:41            | LB136801      |
|           | Calcium   | 229000         | 245000             | 94            | 208000                 | 282000                  | 08/13/2025       | 12:41            | LB136801      |
|           | Chromium  | 58.2           | 52.0               | 112           | 42                     | 62                      | 08/13/2025       | 12:41            | LB136801      |
|           | Cobalt    | 1.85           |                    |               | -30                    | 30                      | 08/13/2025       | 12:41            | LB136801      |
|           | Copper    | 4.82           | 2.0                | 241           | -18                    | 22                      | 08/13/2025       | 12:41            | LB136801      |
|           | Iron      | 99200          | 101000             | 98            | 85600                  | 116500                  | 08/13/2025       | 12:41            | LB136801      |
|           | Lead      | -6.38          |                    |               | -12                    | 12                      | 08/13/2025       | 12:41            | LB136801      |
|           | Magnesium | 243000         | 255000             | 95            | 216000                 | 294000                  | 08/13/2025       | 12:41            | LB136801      |
|           | Manganese | 8.17           | 7.0                | 117           | -13                    | 27                      | 08/13/2025       | 12:41            | LB136801      |
|           | Nickel    | 5.22           | 2.0                | 261           | -38                    | 42                      | 08/13/2025       | 12:41            | LB136801      |
|           | Potassium | -4.10          |                    |               | 0                      | 0                       | 08/13/2025       | 12:41            | LB136801      |
|           | Selenium  | 2.91           |                    |               | -20                    | 20                      | 08/13/2025       | 12:41            | LB136801      |
|           | Silver    | 2.33           |                    |               | -10                    | 10                      | 08/13/2025       | 12:41            | LB136801      |
|           | Sodium    | 3.06           |                    |               | 0                      | 0                       | 08/13/2025       | 12:41            | LB136801      |
|           | Thallium  | 2.91           |                    |               | -40                    | 40                      | 08/13/2025       | 12:41            | LB136801      |
|           | Vanadium  | 3.65           |                    |               | -40                    | 40                      | 08/13/2025       | 12:41            | LB136801      |
|           | Zinc      | 2.20           |                    |               | -40                    | 40                      | 08/13/2025       | 12:41            | LB136801      |
| ICSAB01   | Aluminum  | 247000         | 247000             | 100           | 209000                 | 285000                  | 08/13/2025       | 12:45            | LB136801      |
|           | Antimony  | 588            | 618                | 95            | 525                    | 711                     | 08/13/2025       | 12:45            | LB136801      |
|           | Arsenic   | 111            | 104                | 107           | 88.4                   | 120                     | 08/13/2025       | 12:45            | LB136801      |
|           | Barium    | 492            | 537                | 92            | 437                    | 637                     | 08/13/2025       | 12:45            | LB136801      |
|           | Beryllium | 487            | 495                | 98            | 420                    | 570                     | 08/13/2025       | 12:45            | LB136801      |
|           | Cadmium   | 994            | 972                | 102           | 826                    | 1120                    | 08/13/2025       | 12:45            | LB136801      |
|           | Calcium   | 236000         | 235000             | 100           | 199000                 | 271000                  | 08/13/2025       | 12:45            | LB136801      |
|           | Chromium  | 558            | 542                | 103           | 460                    | 624                     | 08/13/2025       | 12:45            | LB136801      |
|           | Cobalt    | 498            | 476                | 105           | 404                    | 548                     | 08/13/2025       | 12:45            | LB136801      |
|           | Copper    | 486            | 511                | 95            | 434                    | 588                     | 08/13/2025       | 12:45            | LB136801      |
|           | Iron      | 102000         | 99300              | 103           | 84400                  | 114500                  | 08/13/2025       | 12:45            | LB136801      |
|           | Lead      | 42.2           | 49.0               | 86            | 37                     | 61                      | 08/13/2025       | 12:45            | LB136801      |
|           | Magnesium | 250000         | 248000             | 101           | 210000                 | 286000                  | 08/13/2025       | 12:45            | LB136801      |
|           | Manganese | 493            | 507                | 97            | 430                    | 584                     | 08/13/2025       | 12:45            | LB136801      |
|           | Nickel    | 992            | 954                | 104           | 810                    | 1100                    | 08/13/2025       | 12:45            | LB136801      |
|           | Potassium | 42.9           |                    |               | 0                      | 0                       | 08/13/2025       | 12:45            | LB136801      |
|           | Selenium  | 50.5           | 46.0               | 110           | 26                     | 66                      | 08/13/2025       | 12:45            | LB136801      |
|           | Silver    | 216            | 201                | 108           | 170                    | 232                     | 08/13/2025       | 12:45            | LB136801      |
|           | Sodium    | -3.58          |                    |               | 0                      | 0                       | 08/13/2025       | 12:45            | LB136801      |
|           | Thallium  | 113            | 108                | 105           | 68                     | 148                     | 08/13/2025       | 12:45            | LB136801      |

**Metals**  
**- 4 -**  
**INTERFERENCE CHECK SAMPLE**

|                                              |                                 |
|----------------------------------------------|---------------------------------|
| <b>Client:</b> <u>Earth Engineering Inc.</u> | <b>SDG No.:</b> <u>Q2818</u>    |
| <b>Contract:</b> <u>EARTH03</u>              | <b>Lab Code:</b> <u>ACE</u>     |
| <b>ICS Source:</b> <u>EPA</u>                | <b>Instrument ID:</b> <u>P4</u> |

| Sample ID | Analyte  | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|----------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSAB01   | Vanadium | 479            | 491                | 98            | 417                    | 565                     | 08/13/2025       | 12:45            | LB136801      |
|           | Zinc     | 1040           | 952                | 109           | 809                    | 1095                    | 08/13/2025       | 12:45            | LB136801      |



# METAL QC DATA

**metals**  
**- 5a -**  
**MATRIX SPIKE SUMMARY**

**client:** Earth Engineering Inc. **level:** low **sdg no.:** Q2818  
**contract:** EARTH03 **lab code:** ACE  
**matrix:** Solid **sample id:** Q2828-01 **client id:** POWDERMS

**Percent Solids for Sample:** 99.4 **Spiked ID:** Q2828-01MS **Percent Solids for Spike Sample:** 99.4

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Aluminum  | mg/Kg | 74 - 119               | 9300             |   | 7750             |   | 82.1           | 1892          |      | P |
| Antimony  | mg/Kg | 79 - 114               | 12.2             |   | 4.95             |   | 32.9           | 22            | N    | P |
| Arsenic   | mg/Kg | 82 - 111               | 17.9             |   | 5.28             |   | 32.9           | 38            | N    | P |
| Barium    | mg/Kg | 83 - 113               | 117              |   | 123              |   | 8.2            | -68           |      | P |
| Beryllium | mg/Kg | 83 - 113               | 3.99             |   | 0.95             |   | 8.2            | 37            | N    | P |
| Cadmium   | mg/Kg | 82 - 113               | 12.5             |   | 4.95             |   | 8.2            | 93            |      | P |
| Calcium   | mg/Kg | 81 - 116               | 10400            |   | 8670             |   | 41.1           | 4260          |      | P |
| Chromium  | mg/Kg | 85 - 113               | 62.4             |   | 60.9             |   | 16.4           | 9             | N    | P |
| Cobalt    | mg/Kg | 85 - 112               | 47.2             |   | 40.3             |   | 8.2            | 84            |      | P |
| Copper    | mg/Kg | 81 - 117               | 80.6             |   | 76.1             |   | 12.3           | 37            |      | P |
| Iron      | mg/Kg | 81 - 118               | 10200            |   | 12000            |   | 120            | -1436         |      | P |
| Lead      | mg/Kg | 81 - 112               | 110              |   | 71.4             |   | 41.1           | 95            |      | P |
| Magnesium | mg/Kg | 78 - 115               | 1470             |   | 1200             |   | 82.1           | 323           |      | P |
| Manganese | mg/Kg | 84 - 114               | 219              |   | 207              |   | 8.2            | 147           |      | P |
| Nickel    | mg/Kg | 83 - 113               | 157              |   | 143              |   | 20.5           | 70            |      | P |
| Potassium | mg/Kg | 81 - 116               | 551              |   | 309              |   | 410            | 59            | N    | P |
| Selenium  | mg/Kg | 78 - 111               | 30.0             |   | 0.51             | J | 82.1           | 36            | N    | P |
| Silver    | mg/Kg | 82 - 112               | 3.22             |   | 1.58             |   | 3.1            | 53            | N    | P |
| Sodium    | mg/Kg | 83 - 118               | 1030             |   | 872              |   | 120            | 128           |      | P |
| Thallium  | mg/Kg | 83 - 111               | 67.0             |   | 0.43             | J | 82.1           | 81            | N    | P |
| Vanadium  | mg/Kg | 82 - 114               | 56.1             |   | 31.8             |   | 12.3           | 197           | N    | P |
| Zinc      | mg/Kg | 82 - 113               | 244              |   | 240              |   | 8.2            | 46            |      | P |

**metals**  
**- 5a -**  
**MATRIX SPIKE DUPLICATE SUMMARY**

|                                              |                                   |                                              |
|----------------------------------------------|-----------------------------------|----------------------------------------------|
| <b>client:</b> <u>Earth Engineering Inc.</u> | <b>level:</b> <u>low</u>          | <b>sdg no.:</b> <u>Q2818</u>                 |
| <b>contract:</b> <u>EARTH03</u>              |                                   | <b>lab code:</b> <u>ACE</u>                  |
| <b>matrix:</b> <u>Solid</u>                  | <b>sample id:</b> <u>Q2828-01</u> | <b>client id:</b> <u>POWDERMSD</u>           |
| <b>Percent Solids for Sample:</b> 99.4       | <b>Spiked ID:</b> Q2828-01MSD     | <b>Percent Solids for Spike Sample:</b> 99.4 |

| Analyte   | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Aluminum  | mg/Kg | 74 - 119               | 10600         |   | 7750             |   | 87.5           | 3219          |      | P |
| Antimony  | mg/Kg | 79 - 114               | 10.5          |   | 4.95             |   | 35.0           | 16            | N    | P |
| Arsenic   | mg/Kg | 82 - 111               | 20.2          |   | 5.28             |   | 35.0           | 43            | N    | P |
| Barium    | mg/Kg | 83 - 113               | 120           |   | 123              |   | 8.7            | -28           |      | P |
| Beryllium | mg/Kg | 83 - 113               | 4.64          |   | 0.95             |   | 8.7            | 43            | N    | P |
| Cadmium   | mg/Kg | 82 - 113               | 13.8          |   | 4.95             |   | 8.7            | 101           |      | P |
| Calcium   | mg/Kg | 81 - 116               | 12400         |   | 8670             |   | 43.7           | 8468          |      | P |
| Chromium  | mg/Kg | 85 - 113               | 76.4          |   | 60.9             |   | 17.5           | 88            |      | P |
| Cobalt    | mg/Kg | 85 - 112               | 52.6          |   | 40.3             |   | 8.7            | 142           |      | P |
| Copper    | mg/Kg | 81 - 117               | 84.2          |   | 76.1             |   | 13.1           | 61            |      | P |
| Iron      | mg/Kg | 81 - 118               | 12600         |   | 12000            |   | 130            | 492           |      | P |
| Lead      | mg/Kg | 81 - 112               | 116           |   | 71.4             |   | 43.7           | 102           |      | P |
| Magnesium | mg/Kg | 78 - 115               | 1710          |   | 1200             |   | 87.5           | 575           |      | P |
| Manganese | mg/Kg | 84 - 114               | 251           |   | 207              |   | 8.7            | 505           |      | P |
| Nickel    | mg/Kg | 83 - 113               | 178           |   | 143              |   | 21.9           | 163           |      | P |
| Potassium | mg/Kg | 81 - 116               | 582           |   | 309              |   | 440            | 62            | N    | P |
| Selenium  | mg/Kg | 78 - 111               | 34.3          |   | 0.51             | J | 87.5           | 39            | N    | P |
| Silver    | mg/Kg | 82 - 112               | 3.45          |   | 1.58             |   | 3.3            | 57            | N    | P |
| Sodium    | mg/Kg | 83 - 118               | 1050          |   | 872              |   | 130            | 141           |      | P |
| Thallium  | mg/Kg | 83 - 111               | 75.0          |   | 0.43             | J | 87.5           | 85            |      | P |
| Vanadium  | mg/Kg | 82 - 114               | 41.4          |   | 31.8             |   | 13.1           | 73            | N    | P |
| Zinc      | mg/Kg | 82 - 113               | 250           |   | 240              |   | 8.7            | 115           |      | P |

**metals**  
**- 5a -**  
**MATRIX SPIKE SUMMARY**

|                                              |                                   |                                    |
|----------------------------------------------|-----------------------------------|------------------------------------|
| <b>client:</b> <u>Earth Engineering Inc.</u> | <b>level:</b> <u>low</u>          | <b>sdg no.:</b> <u>Q2818</u>       |
| <b>contract:</b> <u>EARTH03</u>              |                                   | <b>lab code:</b> <u>ACE</u>        |
| <b>matrix:</b> <u>Solid</u>                  | <b>sample id:</b> <u>Q2831-01</u> | <b>client id:</b> <u>VNJ-238MS</u> |

|                                        |                              |                                              |
|----------------------------------------|------------------------------|----------------------------------------------|
| <b>Percent Solids for Sample:</b> 93.1 | <b>Spiked ID:</b> Q2831-01MS | <b>Percent Solids for Spike Sample:</b> 93.1 |
|----------------------------------------|------------------------------|----------------------------------------------|

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 124               | 0.29             |   | 0.037            |   | 0.26           | 97            |      | CV |

**metals**  
**- 5a -**  
**MATRIX SPIKE DUPLICATE SUMMARY**

|                                              |                                   |                                              |
|----------------------------------------------|-----------------------------------|----------------------------------------------|
| <b>client:</b> <u>Earth Engineering Inc.</u> | <b>level:</b> <u>low</u>          | <b>sdg no.:</b> <u>Q2818</u>                 |
| <b>contract:</b> <u>EARTH03</u>              |                                   | <b>lab code:</b> <u>ACE</u>                  |
| <b>matrix:</b> <u>Solid</u>                  | <b>sample id:</b> <u>Q2831-01</u> | <b>client id:</b> <u>VNJ-238MSD</u>          |
| <b>Percent Solids for Sample:</b> 93.1       | <b>Spiked ID:</b> Q2831-01MSD     | <b>Percent Solids for Spike Sample:</b> 93.1 |

| Analyte | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 124               | 0.30          |   | 0.037            |   | 0.28           | 92            |      | CV |

**Metals**  
**- 5b -**  
**POST DIGEST SPIKE SUMMARY**

|                                              |                                    |                                  |
|----------------------------------------------|------------------------------------|----------------------------------|
| <b>Client:</b> <u>Earth Engineering Inc.</u> | <b>SDG No.:</b> <u>Q2818</u>       |                                  |
| <b>Contract:</b> <u>EARTH03</u>              | <b>Lab Code:</b> <u>ACE</u>        |                                  |
| <b>Matrix:</b> <u>Solid</u>                  | <b>Level:</b> <u>LOW</u>           | <b>Client ID:</b> <u>POWDERA</u> |
| <b>Sample ID:</b> <u>Q2828-01</u>            | <b>Spiked ID:</b> <u>Q2828-01A</u> |                                  |

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Antimony  | mg/Kg | 79 - 114               | 23.9             |   | 4.95             |   | 37.3           | 51            | N    | P |
| Arsenic   | mg/Kg | 82 - 111               | 23.2             |   | 5.28             |   | 37.3           | 48            | N    | P |
| Beryllium | mg/Kg | 83 - 113               | 5.02             |   | 0.95             |   | 9.30           | 44            | N    | P |
| Chromium  | mg/Kg | 85 - 113               | 68.9             |   | 60.9             |   | 18.6           | 43            | N    | P |
| Potassium | mg/Kg | 81 - 116               | 575              |   | 309              |   | 470            | 57            | N    | P |
| Selenium  | mg/Kg | 78 - 111               | 44.6             |   | 0.51             | J | 93.2           | 47            | N    | P |
| Silver    | mg/Kg | 82 - 112               | 3.46             |   | 1.58             |   | 3.50           | 54            | N    | P |
| Thallium  | mg/Kg | 83 - 111               | 80.5             |   | 0.43             | J | 93.2           | 86            |      | P |
| Vanadium  | mg/Kg | 82 - 114               | 38.6             |   | 31.8             |   | 14.0           | 49            | N    | P |

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

|                                   |                               |                     |                 |                                         |                  |
|-----------------------------------|-------------------------------|---------------------|-----------------|-----------------------------------------|------------------|
| <b>Client:</b>                    | <u>Earth Engineering Inc.</u> | <b>Level:</b>       | <u>LOW</u>      | <b>SDG No.:</b>                         | <u>Q2818</u>     |
| <b>Contract:</b>                  | <u>EARTH03</u>                |                     |                 | <b>Lab Code:</b>                        | <u>ACE</u>       |
| <b>Matrix:</b>                    | <u>Solid</u>                  | <b>Sample ID:</b>   | <u>Q2828-01</u> | <b>Client ID:</b>                       | <u>POWDERDUP</u> |
| <b>Percent Solids for Sample:</b> | 99.4                          | <b>Duplicate ID</b> | Q2828-01DUP     | <b>Percent Solids for Spike Sample:</b> | 99.4             |

| Analyte   | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|-----------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Aluminum  | mg/Kg | 20               | 7750          |   | 7150             |   | 8   |      | P |
| Antimony  | mg/Kg | 20               | 4.95          |   | 4.87             |   | 2   |      | P |
| Arsenic   | mg/Kg | 20               | 5.28          |   | 5.00             |   | 5   |      | P |
| Barium    | mg/Kg | 20               | 123           |   | 112              |   | 9   |      | P |
| Beryllium | mg/Kg | 20               | 0.95          |   | 0.88             |   | 7   |      | P |
| Cadmium   | mg/Kg | 20               | 4.95          |   | 4.56             |   | 8   |      | P |
| Calcium   | mg/Kg | 20               | 8670          |   | 8040             |   | 8   |      | P |
| Chromium  | mg/Kg | 20               | 60.9          |   | 55.8             |   | 9   |      | P |
| Cobalt    | mg/Kg | 20               | 40.3          |   | 36.8             |   | 9   |      | P |
| Copper    | mg/Kg | 20               | 76.1          |   | 71.4             |   | 6   |      | P |
| Iron      | mg/Kg | 20               | 12000         |   | 11000            |   | 9   |      | P |
| Lead      | mg/Kg | 20               | 71.4          |   | 66.2             |   | 8   |      | P |
| Magnesium | mg/Kg | 20               | 1200          |   | 1120             |   | 7   |      | P |
| Manganese | mg/Kg | 20               | 207           |   | 192              |   | 8   |      | P |
| Nickel    | mg/Kg | 20               | 143           |   | 131              |   | 9   |      | P |
| Potassium | mg/Kg | 20               | 309           |   | 285              |   | 8   |      | P |
| Selenium  | mg/Kg | 20               | 0.51          | J | 0.58             | J | 14  |      | P |
| Silver    | mg/Kg | 20               | 1.58          |   | 1.47             |   | 7   |      | P |
| Sodium    | mg/Kg | 20               | 872           |   | 806              |   | 8   |      | P |
| Thallium  | mg/Kg | 20               | 0.43          | J | 0.64             | J | 40  |      | P |
| Vanadium  | mg/Kg | 20               | 31.8          |   | 29.6             |   | 7   |      | P |
| Zinc      | mg/Kg | 20               | 240           |   | 222              |   | 8   |      | P |

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

|                                   |                               |                     |                   |                                         |                  |
|-----------------------------------|-------------------------------|---------------------|-------------------|-----------------------------------------|------------------|
| <b>Client:</b>                    | <u>Earth Engineering Inc.</u> | <b>Level:</b>       | <u>LOW</u>        | <b>SDG No.:</b>                         | <u>Q2818</u>     |
| <b>Contract:</b>                  | <u>EARTH03</u>                |                     |                   | <b>Lab Code:</b>                        | <u>ACE</u>       |
| <b>Matrix:</b>                    | <u>Solid</u>                  | <b>Sample ID:</b>   | <u>Q2828-01MS</u> | <b>Client ID:</b>                       | <u>POWDERMSD</u> |
| <b>Percent Solids for Sample:</b> | 99.4                          | <b>Duplicate ID</b> | Q2828-01MSD       | <b>Percent Solids for Spike Sample:</b> | 99.4             |

| Analyte   | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|-----------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Aluminum  | mg/Kg | 20               | 9300          |   | 10600            |   | 13  |      | P |
| Antimony  | mg/Kg | 20               | 12.2          |   | 10.5             |   | 15  |      | P |
| Arsenic   | mg/Kg | 20               | 17.9          |   | 20.2             |   | 12  |      | P |
| Barium    | mg/Kg | 20               | 117           |   | 120              |   | 3   |      | P |
| Beryllium | mg/Kg | 20               | 3.99          |   | 4.64             |   | 15  |      | P |
| Cadmium   | mg/Kg | 20               | 12.5          |   | 13.8             |   | 10  |      | P |
| Calcium   | mg/Kg | 20               | 10400         |   | 12400            |   | 18  |      | P |
| Chromium  | mg/Kg | 20               | 62.4          |   | 76.4             |   | 20  |      | P |
| Cobalt    | mg/Kg | 20               | 47.2          |   | 52.6             |   | 11  |      | P |
| Copper    | mg/Kg | 20               | 80.6          |   | 84.2             |   | 4   |      | P |
| Iron      | mg/Kg | 20               | 10200         |   | 12600            |   | 21  | *    | P |
| Lead      | mg/Kg | 20               | 110           |   | 116              |   | 5   |      | P |
| Magnesium | mg/Kg | 20               | 1470          |   | 1710             |   | 15  |      | P |
| Manganese | mg/Kg | 20               | 219           |   | 251              |   | 14  |      | P |
| Nickel    | mg/Kg | 20               | 157           |   | 178              |   | 13  |      | P |
| Potassium | mg/Kg | 20               | 551           |   | 582              |   | 5   |      | P |
| Selenium  | mg/Kg | 20               | 30.0          |   | 34.3             |   | 13  |      | P |
| Silver    | mg/Kg | 20               | 3.22          |   | 3.45             |   | 7   |      | P |
| Sodium    | mg/Kg | 20               | 1030          |   | 1050             |   | 2   |      | P |
| Thallium  | mg/Kg | 20               | 67.0          |   | 75.0             |   | 11  |      | P |
| Vanadium  | mg/Kg | 20               | 56.1          |   | 41.4             |   | 30  | *    | P |
| Zinc      | mg/Kg | 20               | 244           |   | 250              |   | 2   |      | P |

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

|                                   |                               |                     |                 |                                         |                   |
|-----------------------------------|-------------------------------|---------------------|-----------------|-----------------------------------------|-------------------|
| <b>Client:</b>                    | <u>Earth Engineering Inc.</u> | <b>Level:</b>       | <u>LOW</u>      | <b>SDG No.:</b>                         | <u>Q2818</u>      |
| <b>Contract:</b>                  | <u>EARTH03</u>                |                     |                 | <b>Lab Code:</b>                        | <u>ACE</u>        |
| <b>Matrix:</b>                    | <u>Solid</u>                  | <b>Sample ID:</b>   | <u>Q2831-01</u> | <b>Client ID:</b>                       | <u>VNJ-238DUP</u> |
| <b>Percent Solids for Sample:</b> | 93.1                          | <b>Duplicate ID</b> | Q2831-01DUP     | <b>Percent Solids for Spike Sample:</b> | 93.1              |

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M  |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|----|
| Mercury | mg/Kg | 20               | 0.037         |   | 0.040            |   | 8   |      | CV |

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

|                                   |                               |                     |                   |                                         |                   |
|-----------------------------------|-------------------------------|---------------------|-------------------|-----------------------------------------|-------------------|
| <b>Client:</b>                    | <u>Earth Engineering Inc.</u> | <b>Level:</b>       | <u>LOW</u>        | <b>SDG No.:</b>                         | <u>Q2818</u>      |
| <b>Contract:</b>                  | <u>EARTH03</u>                |                     |                   | <b>Lab Code:</b>                        | <u>ACE</u>        |
| <b>Matrix:</b>                    | <u>Solid</u>                  | <b>Sample ID:</b>   | <u>Q2831-01MS</u> | <b>Client ID:</b>                       | <u>VNJ-238MSD</u> |
| <b>Percent Solids for Sample:</b> | 93.1                          | <b>Duplicate ID</b> | Q2831-01MSD       | <b>Percent Solids for Spike Sample:</b> | 93.1              |

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M  |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|----|
| Mercury | mg/Kg | 20               | 0.29          |   | 0.30             |   | 2   |      | CV |

**Metals**

- 7 -

**LABORATORY CONTROL SAMPLE SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

| Analyte               | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M  |
|-----------------------|-------|------------|--------|---|---------------|----------------------|----|
| PB169204BS<br>Mercury | mg/Kg | 0.27       | 0.23   |   | 85            | 80 - 124             | CV |

**Metals**

- 7 -

**LABORATORY CONTROL SAMPLE SUMMARY**

|                  |                               |                  |              |
|------------------|-------------------------------|------------------|--------------|
| <b>Client:</b>   | <u>Earth Engineering Inc.</u> | <b>SDG No.:</b>  | <u>Q2818</u> |
| <b>Contract:</b> | <u>EARTH03</u>                | <b>Lab Code:</b> | <u>ACE</u>   |

| Analyte    | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|------------|-------|------------|--------|---|------------|-------------------|---|
| PB169211BS |       |            |        |   |            |                   |   |
| Aluminum   | mg/Kg | 100        | 98.1   |   | 98         | 74 - 119          | P |
| Antimony   | mg/Kg | 40.0       | 40.7   |   | 102        | 79 - 114          | P |
| Arsenic    | mg/Kg | 40.0       | 39.2   |   | 98         | 82 - 111          | P |
| Barium     | mg/Kg | 10.0       | 9.27   |   | 93         | 83 - 113          | P |
| Beryllium  | mg/Kg | 10.0       | 9.71   |   | 97         | 83 - 113          | P |
| Cadmium    | mg/Kg | 10.0       | 9.41   |   | 94         | 82 - 113          | P |
| Calcium    | mg/Kg | 50.0       | 49.9   | J | 100        | 81 - 116          | P |
| Chromium   | mg/Kg | 20.0       | 20.3   |   | 102        | 85 - 113          | P |
| Cobalt     | mg/Kg | 10.0       | 9.68   |   | 97         | 85 - 112          | P |
| Copper     | mg/Kg | 15.0       | 15.4   |   | 103        | 81 - 117          | P |
| Iron       | mg/Kg | 150        | 151    |   | 101        | 81 - 118          | P |
| Lead       | mg/Kg | 50.0       | 47.4   |   | 95         | 81 - 112          | P |
| Magnesium  | mg/Kg | 100        | 97.2   | J | 97         | 78 - 115          | P |
| Manganese  | mg/Kg | 10.0       | 9.87   |   | 99         | 84 - 114          | P |
| Nickel     | mg/Kg | 25.0       | 24.4   |   | 98         | 83 - 113          | P |
| Potassium  | mg/Kg | 500        | 486    |   | 97         | 81 - 116          | P |
| Selenium   | mg/Kg | 100        | 99.5   |   | 100        | 78 - 111          | P |
| Silver     | mg/Kg | 3.8        | 3.78   |   | 100        | 82 - 112          | P |
| Sodium     | mg/Kg | 150        | 138    |   | 92         | 83 - 118          | P |
| Thallium   | mg/Kg | 100        | 97.7   |   | 98         | 83 - 111          | P |
| Vanadium   | mg/Kg | 15.0       | 15.0   |   | 100        | 82 - 114          | P |
| Zinc       | mg/Kg | 10.0       | 10.3   |   | 103        | 82 - 113          | P |

**Metals**  
**-9 -**  
**ICP SERIAL DILUTIONS**

SAMPLE NO.

POWDERL

**Lab Name:** Alliance **Contract:** EARTH03  
**Lab Code:** ACE **Lb No.:** lb136801 **Lab Sample ID :** Q2828-01L **SDG No.:** Q2818  
**Matrix (soil/water):** Solid **Level (low/med):** LOW  
**Concentration Units:** mg/Kg

| Analyte   | Initial Sample Result (I) |       | Serial Dilution Result (S) |       | % Differ-ence |       | Q | M |
|-----------|---------------------------|-------|----------------------------|-------|---------------|-------|---|---|
|           |                           | C     |                            | C     |               |       |   |   |
| Aluminum  |                           | 7750  |                            | 13300 |               | 71    |   | P |
| Antimony  |                           | 4.95  |                            | 8.21  | J             | 66    |   | P |
| Arsenic   |                           | 5.28  |                            | 8.73  |               | 65    |   | P |
| Barium    |                           | 123   |                            | 208   |               | 69    |   | P |
| Beryllium |                           | 0.95  |                            | 1.70  |               | 80    |   | P |
| Cadmium   |                           | 4.95  |                            | 3.90  |               | 21    |   | P |
| Calcium   |                           | 8670  |                            | 15400 |               | 77    |   | P |
| Chromium  |                           | 60.9  |                            | 109   |               | 78    |   | P |
| Cobalt    |                           | 40.3  |                            | 39.1  |               | 3     |   | P |
| Copper    |                           | 76.1  |                            | 139   |               | 82    |   | P |
| Iron      |                           | 12000 |                            | 20300 |               | 70    |   | P |
| Lead      |                           | 71.4  |                            | 72.9  |               | 2     |   | P |
| Magnesium |                           | 1200  |                            | 2170  |               | 80    |   | P |
| Manganese |                           | 207   |                            | 372   |               | 80    |   | P |
| Nickel    |                           | 143   |                            | 142   |               | 0     |   | P |
| Potassium |                           | 309   |                            | 468   |               | 51    |   | P |
| Selenium  |                           | 0.51  | J                          | 4.66  | U             | 100.0 |   | P |
| Silver    |                           | 1.58  |                            | 2.85  |               | 81    |   | P |
| Sodium    |                           | 872   |                            | 1270  |               | 46    |   | P |
| Thallium  |                           | 0.43  | J                          | 1.28  | J             | 199   |   | P |
| Vanadium  |                           | 31.8  |                            | 56.3  |               | 77    |   | P |
| Zinc      |                           | 240   |                            | 435   |               | 81    |   | P |

**Metals**  
**-9 -**  
**ICP SERIAL DILUTIONS**

**SAMPLE NO.**

VNJ-238L

**Lab Name:** Alliance **Contract:** EARTH03  
**Lab Code:** ACE **Lb No.:** lb136782 **Lab Sample ID :** Q2831-01L **SDG No.:** Q2818  
**Matrix (soil/water):** Solid **Level (low/med):** LOW  
**Concentration Units:** mg/Kg

| Analyte | Initial Sample<br>Result (I)<br>C | Serial Dilution<br>Result (S)<br>C | % Differ-<br>ence | Q | M  |
|---------|-----------------------------------|------------------------------------|-------------------|---|----|
| Mercury | 0.037                             | 0.070 U                            | 100.0             |   | CV |

**metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** Earth Engineering Inc.

**Contract:** EARTH03

**Lab code:** ACE

**Sdg no.:** Q2818

**Instrument id number:** \_\_\_\_\_

**Method:** \_\_\_\_\_

**Run number:** LB136782

**Start date:** 08/12/2025

**End date:** 08/12/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|----------------|------------------|-----|------|----------------|
| S0             | S0               | 1   | 0919 | HG             |
| S0.2           | S0.2             | 1   | 0924 | HG             |
| S2.5           | S2.5             | 1   | 0926 | HG             |
| S5             | S5               | 1   | 0929 | HG             |
| S7.5           | S7.5             | 1   | 0939 | HG             |
| S10            | S10              | 1   | 0953 | HG             |
| ICV08          | ICV08            | 1   | 0956 | HG             |
| ICB08          | ICB08            | 1   | 1001 | HG             |
| CCV22          | CCV22            | 1   | 1003 | HG             |
| CCB22          | CCB22            | 1   | 1008 | HG             |
| CRA            | CRA              | 1   | 1034 | HG             |
| PB169204BL     | PB169204BL       | 1   | 1046 | HG             |
| PB169204BS     | PB169204BS       | 1   | 1050 | HG             |
| Q2818-01       | B-2-5-1          | 1   | 1103 | HG             |
| Q2818-02       | B-3-5-2          | 1   | 1106 | HG             |
| CCV23          | CCV23            | 1   | 1111 | HG             |
| CCB23          | CCB23            | 1   | 1121 | HG             |
| CCV24          | CCV24            | 1   | 1151 | HG             |
| CCB24          | CCB24            | 1   | 1154 | HG             |
| Q2831-01DUP    | VNJ-238DUP       | 1   | 1208 | HG             |
| Q2831-01MS     | VNJ-238MS        | 1   | 1210 | HG             |
| Q2831-01MSD    | VNJ-238MSD       | 1   | 1212 | HG             |
| Q2831-01L      | VNJ-238L         | 5   | 1215 | HG             |
| CCV25          | CCV25            | 1   | 1232 | HG             |
| CCB25          | CCB25            | 1   | 1237 | HG             |
| CCV26          | CCV26            | 1   | 1255 | HG             |
| CCB26          | CCB26            | 1   | 1300 | HG             |

**metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** Earth Engineering Inc.

**Contract:** EARTH03

**Lab code:** ACE

**Sdg no.:** Q2818

**Instrument id number:** \_\_\_\_\_

**Method:** \_\_\_\_\_

**Run number:** LB136801

**Start date:** 08/13/2025

**End date:** 08/13/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list                                                  |
|----------------|------------------|-----|------|-----------------------------------------------------------------|
| S0             | S0               | 1   | 1156 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1             | S1               | 1   | 1200 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2             | S2               | 1   | 1204 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3             | S3               | 1   | 1208 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4             | S4               | 1   | 1212 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5             | S5               | 1   | 1217 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01          | ICV01            | 1   | 1221 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01        | LLICV01          | 1   | 1228 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01          | ICB01            | 1   | 1233 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01          | CRI01            | 1   | 1237 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01         | ICSA01           | 1   | 1241 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01        | ICSAB01          | 1   | 1245 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01          | CCV01            | 1   | 1258 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01          | CCB01            | 1   | 1303 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2828-01DUP    | POWDERDUP        | 1   | 1312 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2828-01L      | POWDERL          | 5   | 1316 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2828-01MS     | POWDERMS         | 1   | 1320 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2828-01MSD    | POWDERMSD        | 1   | 1325 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2828-01A      | POWDERA          | 1   | 1330 | Ag,As,Be,Cr,K,Sb,Se,Tl,V                                        |
| CCV02          | CCV02            | 1   | 1342 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02          | CCB02            | 1   | 1346 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2818-01       | B-2-5-1          | 1   | 1411 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2818-02       | B-3-5-2          | 1   | 1416 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03          | CCV03            | 1   | 1433 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03          | CCB03            | 1   | 1437 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB169211BL     | PB169211BL       | 1   | 1506 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB169211BS     | PB169211BS       | 1   | 1519 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04          | CCV04            | 1   | 1523 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04          | CCB04            | 1   | 1527 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05          | CCV05            | 1   | 1614 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05          | CCB05            | 1   | 1619 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06          | CCV06            | 1   | 1705 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB06          | CCB06            | 1   | 1709 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07          | CCV07            | 1   | 1746 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB07          | CCB07            | 1   | 1750 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |



# METAL PREPARATION & INSTRUMENT DATA

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |            |            |           |           |
|-----------|-------------------------|------------------------------------------|------------|------------|-----------|-----------|
|           |                         | Al                                       | Ca         | Fe         | Mg        | Ag        |
| Aluminum  | 396.100                 | 0.0000000                                | -0.0002060 | 0.0000000  | 0.0000000 | 0.0000000 |
| Antimony  | 206.833                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Arsenic   | 193.759                 | 0.0000000                                | 0.0000000  | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000000  | 0.0000930  | 0.0000000 | 0.0000000 |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000  | -0.0075970 | 0.0000000 | 0.0000000 |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Copper    | 224.700                 | 0.0000000                                | 0.0000000  | 0.0007850  | 0.0000000 | 0.0000000 |
| Iron      | 240.488                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Lead      | 220.353                 | -0.0000920                               | 0.0000000  | 0.0000380  | 0.0000000 | 0.0000000 |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000  | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver    | 328.068                 | 0.0000000                                | 0.0000000  | -0.0001490 | 0.0000000 | 0.0000000 |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Thallium  | 190.856                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Vanadium  | 292.402                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Zinc      | 213.800                 | 0.0000000                                | 0.0000000  | 0.0001050  | 0.0000000 | 0.0000000 |

**Metals**

- 11 -

**ICP INTERELEMEN CORRECTION FACTORS**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |           |           |           |            |
|-----------|-------------------------|----------------------------------------|-----------|-----------|-----------|------------|
|           |                         | As                                     | Ba        | Be        | Cd        | Co         |
| Aluminum  | 396.100                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Antimony  | 206.833                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Arsenic   | 193.759                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Barium    | 493.409                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Beryllium | 234.861                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Cadmium   | 226.502                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870  |
| Calcium   | 373.690                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Chromium  | 267.716                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Cobalt    | 228.616                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Copper    | 224.700                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0009530  |
| Iron      | 240.488                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |
| Lead      | 220.353                 | 0.0000000                              | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000  |
| Magnesium | 279.079                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Manganese | 257.610                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Nickel    | 231.604                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Potassium | 766.490                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Selenium  | 196.090                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver    | 328.068                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Sodium    | 589.592                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Thallium  | 190.856                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0054900  |
| Vanadium  | 292.402                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Zinc      | 213.800                 | 0.0000000                              | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |           |           |            |            |
|-----------|-------------------------|------------------------------------------|-----------|-----------|------------|------------|
|           |                         | Cr                                       | Cu        | K         | Mn         | Mo         |
| Aluminum  | 396.100                 | 0.0000000                                | 0.0000000 | 0.0000590 | 0.0000000  | 0.0396900  |
| Antimony  | 206.833                 | 0.0122000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Arsenic   | 193.759                 | -0.0029000                               | 0.0000000 | 0.0000000 | 0.0000000  | 0.0004900  |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000 | 0.0000000 | -0.0000710 | -0.0003400 |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000 | 0.0000070 | 0.0002200  | 0.0000000  |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | -0.0007860 |
| Copper    | 224.700                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0006510  | 0.0020500  |
| Iron      | 240.488                 | 0.0000000                                | 0.0000000 | 0.0000730 | 0.0000000  | -0.0015250 |
| Lead      | 220.353                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0001400  | -0.0008600 |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0007460  | 0.0000000  |
| Silver    | 328.068                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | -0.0000120 |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Thallium  | 190.856                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0017400  | -0.0100400 |
| Vanadium  | 292.402                 | -0.0025100                               | 0.0000000 | 0.0000000 | 0.0000000  | -0.0072000 |
| Zinc      | 213.800                 | 0.0000000                                | 0.0009010 | 0.0000000 | 0.0000000  | 0.0000000  |

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |            |           |           |           |
|-----------|-------------------------|------------------------------------------|------------|-----------|-----------|-----------|
|           |                         | Na                                       | Ni         | Pb        | Sb        | Se        |
| Aluminum  | 396.100                 | 0.0000000                                | 0.0000000  | 0.0012800 | 0.0000000 | 0.0000000 |
| Antimony  | 206.833                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic   | 193.759                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper    | 224.700                 | 0.0000000                                | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Iron      | 240.488                 | 0.0000000                                | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead      | 220.353                 | 0.0000000                                | 0.0006580  | 0.0000000 | 0.0000000 | 0.0001290 |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000  | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver    | 328.068                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium  | 190.856                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium  | 292.402                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc      | 213.800                 | 0.0000000                                | 0.0067600  | 0.0000000 | 0.0000000 | 0.0000000 |

**Metals**

- 11 -

**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Instrument ID:**

**Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |            |           |            |           |
|-----------|-------------------------|------------------------------------------|------------|-----------|------------|-----------|
|           |                         | Sn                                       | Ti         | Tl        | V          | Zn        |
| Aluminum  | 396.100                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Antimony  | 206.833                 | -0.0035600                               | -0.0007970 | 0.0000000 | -0.0018900 | 0.0000000 |
| Arsenic   | 193.759                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000630  | 0.0001280 | 0.0000000  | 0.0000000 |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0001110  | 0.0000000 |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0018800  | 0.0000000 | 0.0000000  | 0.0000000 |
| Copper    | 224.700                 | 0.0000000                                | 0.0003840  | 0.0000000 | 0.0000000  | 0.0000000 |
| Iron      | 240.488                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Lead      | 220.353                 | 0.0000000                                | -0.0003610 | 0.0000000 | 0.0000000  | 0.0000000 |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Silver    | 328.068                 | 0.0000000                                | -0.0007420 | 0.0000000 | 0.0000000  | 0.0000000 |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Thallium  | 190.856                 | 0.0000000                                | -0.0039700 | 0.0000000 | -0.0115600 | 0.0000000 |
| Vanadium  | 292.402                 | 0.0000000                                | 0.0005320  | 0.0000000 | 0.0000000  | 0.0000000 |
| Zinc      | 213.800                 | 0.0000000                                | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |

## LAB CHRONICLE

|                 |                        |                   |                       |
|-----------------|------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q2818                  | <b>OrderDate:</b> | 8/11/2025 11:57:00 AM |
| <b>Client:</b>  | Earth Engineering Inc. | <b>Project:</b>   | Reserve Turgyan Farms |
| <b>Contact:</b> | Frank Dougherty, LSRP  | <b>Location:</b>  | J21                   |

| LabID    | ClientID | Matrix | Test           | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|----------|--------|----------------|--------|-------------|-----------|-----------|----------|
| Q2818-01 | B-2-5-1  | SOIL   |                |        | 08/11/25    |           |           | 08/11/25 |
|          |          |        | Mercury        | 7471B  |             | 08/11/25  | 08/12/25  |          |
|          |          |        | Metals ICP-TAL | 6010D  |             | 08/12/25  | 08/13/25  |          |
| Q2818-02 | B-3-5-2  | SOIL   |                |        | 08/11/25    |           |           | 08/11/25 |
|          |          |        | Mercury        | 7471B  |             | 08/11/25  | 08/12/25  |          |
|          |          |        | Metals ICP-TAL | 6010D  |             | 08/12/25  | 08/13/25  |          |



# METAL PREPARATION & ANALYICAL SUMMARY

**Metals**  
**- 13 -**

**SAMPLE PREPARATION SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Method:** \_\_\_\_\_

| Sample ID                     | Client ID  | Sample Type | Matrix | Prep Date  | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|-------------------------------|------------|-------------|--------|------------|------------------------|--------------------------|----------------|
| <b>Batch Number: PB169204</b> |            |             |        |            |                        |                          |                |
| PB169204BL                    | PB169204BL | MB          | SOLID  | 08/11/2025 | 0.51                   | 35.0                     | 100.00         |
| PB169204BS                    | PB169204BS | LCS         | SOLID  | 08/11/2025 | 0.51                   | 35.0                     | 100.00         |
| Q2818-01                      | B-2-5-1    | SAM         | SOLID  | 08/11/2025 | 0.52                   | 35.0                     | 87.50          |
| Q2818-02                      | B-3-5-2    | SAM         | SOLID  | 08/11/2025 | 0.53                   | 35.0                     | 89.10          |
| Q2831-01DUP                   | VNJ-238DUP | DUP         | SOLID  | 08/11/2025 | 0.50                   | 35.0                     | 93.10          |
| Q2831-01MS                    | VNJ-238MS  | MS          | SOLID  | 08/11/2025 | 0.57                   | 35.0                     | 93.10          |
| Q2831-01MSD                   | VNJ-238MSD | MSD         | SOLID  | 08/11/2025 | 0.54                   | 35.0                     | 93.10          |

**Metals**

**- 13 -**

**SAMPLE PREPARATION SUMMARY**

**Client:** Earth Engineering Inc.

**SDG No.:** Q2818

**Contract:** EARTH03

**Lab Code:** ACE

**Method:** \_\_\_\_\_

| Sample ID                     | Client ID  | Sample Type | Matrix | Prep Date  | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|-------------------------------|------------|-------------|--------|------------|------------------------|--------------------------|----------------|
| <b>Batch Number: PB169211</b> |            |             |        |            |                        |                          |                |
| PB169211BL                    | PB169211BL | MB          | SOLID  | 08/12/2025 | 2.00                   | 100.0                    | 100.00         |
| PB169211BS                    | PB169211BS | LCS         | SOLID  | 08/12/2025 | 2.00                   | 100.0                    | 100.00         |
| Q2818-01                      | B-2-5-1    | SAM         | SOLID  | 08/12/2025 | 2.34                   | 100.0                    | 87.50          |
| Q2818-02                      | B-3-5-2    | SAM         | SOLID  | 08/12/2025 | 2.33                   | 100.0                    | 89.10          |
| Q2828-01DUP                   | POWDERDUP  | DUP         | SOLID  | 08/12/2025 | 2.33                   | 100.0                    | 99.40          |
| Q2828-01MS                    | POWDERMS   | MS          | SOLID  | 08/12/2025 | 2.45                   | 100.0                    | 99.40          |
| Q2828-01MSD                   | POWDERMSD  | MSD         | SOLID  | 08/12/2025 | 2.30                   | 100.0                    | 99.40          |

Instrument ID: CV1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136782**

|                  |                                                         |              |                      |
|------------------|---------------------------------------------------------|--------------|----------------------|
| Review By        | sagar                                                   | Review On    | 8/12/2025 1:34:59 PM |
| Supervise By     | jaswal                                                  | Supervise On | 8/12/2025 4:08:53 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                      |
| ICAL Standard    | MP86706,MP86707,MP86708,MP86709,MP86710,MP86711,MP86712 |              |                      |
| ICV Standard     | MP86713                                                 |              |                      |
| CCV Standard     | MP86715                                                 |              |                      |
| ICSA Standard    |                                                         |              |                      |
| CRI Standard     | MP86717                                                 |              |                      |
| LCS Standard     |                                                         |              |                      |
| Chk Standard     | MP86714,MP86716,MP86718,MP86721                         |              |                      |

| Sr# | SampleId   | ClientID       | QcType   | Date           | Comment | Operator | Status   |
|-----|------------|----------------|----------|----------------|---------|----------|----------|
| 1   | S0         | S0             | CAL1     | 08/12/25 09:19 |         | sagar    | OK       |
| 2   | S0.2       | S0.2           | CAL2     | 08/12/25 09:24 |         | sagar    | OK       |
| 3   | S2.5       | S2.5           | CAL3     | 08/12/25 09:26 |         | sagar    | OK       |
| 4   | S5         | S5             | CAL4     | 08/12/25 09:29 |         | sagar    | OK       |
| 5   | S7.5       | S7.5           | CAL5     | 08/12/25 09:39 |         | sagar    | OK       |
| 6   | S10        | S10            | CAL6     | 08/12/25 09:53 |         | sagar    | OK       |
| 7   | ICV08      | ICV08          | ICV      | 08/12/25 09:56 |         | sagar    | OK       |
| 8   | ICB08      | ICB08          | ICB      | 08/12/25 10:01 |         | sagar    | OK       |
| 9   | CCV22      | CCV22          | CCV      | 08/12/25 10:03 |         | sagar    | OK       |
| 10  | CCB22      | CCB22          | CCB      | 08/12/25 10:08 |         | sagar    | OK       |
| 11  | CRA        | CRA            | CRDL     | 08/12/25 10:34 |         | sagar    | OK       |
| 12  | HighStd    | HighStd        | HIGH STD | 08/12/25 10:36 |         | sagar    | OK       |
| 13  | ChkStd     | ChkStd         | SAM      | 08/12/25 10:41 |         | sagar    | OK       |
| 14  | PB169204BL | PB169204BL     | MB       | 08/12/25 10:46 |         | sagar    | OK       |
| 15  | PB169204BS | PB169204BS     | LCS      | 08/12/25 10:50 |         | sagar    | OK       |
| 16  | Q2808-01   | TP-7           | SAM      | 08/12/25 10:57 | High    | sagar    | Dilution |
| 17  | Q2809-01   | OR-03-08082025 | SAM      | 08/12/25 11:01 |         | sagar    | OK       |
| 18  | Q2818-01   | B-2-5-1        | SAM      | 08/12/25 11:03 |         | sagar    | OK       |

Instrument ID: CV1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136782**

|                  |                                                         |              |                      |
|------------------|---------------------------------------------------------|--------------|----------------------|
| Review By        | sagar                                                   | Review On    | 8/12/2025 1:34:59 PM |
| Supervise By     | jaswal                                                  | Supervise On | 8/12/2025 4:08:53 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                      |
| ICAL Standard    | MP86706,MP86707,MP86708,MP86709,MP86710,MP86711,MP86712 |              |                      |
| ICV Standard     | MP86713                                                 |              |                      |
| CCV Standard     | MP86715                                                 |              |                      |
| ICSA Standard    |                                                         |              |                      |
| CRI Standard     | MP86717                                                 |              |                      |
| LCS Standard     |                                                         |              |                      |
| Chk Standard     | MP86714,MP86716,MP86718,MP86721                         |              |                      |

|    |          |                  |     |                |      |       |          |
|----|----------|------------------|-----|----------------|------|-------|----------|
| 19 | Q2818-02 | B-3-5-2          | SAM | 08/12/25 11:06 |      | sagar | OK       |
| 20 | Q2819-06 | 11M-S            | SAM | 08/12/25 11:08 |      | sagar | OK       |
| 21 | CCV23    | CCV23            | CCV | 08/12/25 11:11 |      | sagar | OK       |
| 22 | CCB23    | CCB23            | CCB | 08/12/25 11:21 |      | sagar | OK       |
| 23 | Q2819-11 | 84SB-W           | SAM | 08/12/25 11:25 |      | sagar | OK       |
| 24 | Q2819-14 | 17M-W            | SAM | 08/12/25 11:27 |      | sagar | OK       |
| 25 | Q2820-09 | 705R-S           | SAM | 08/12/25 11:29 |      | sagar | OK       |
| 26 | Q2820-10 | SOIL-DUP-2       | SAM | 08/12/25 11:31 |      | sagar | OK       |
| 27 | Q2820-24 | 22M-S            | SAM | 08/12/25 11:34 |      | sagar | OK       |
| 28 | Q2823-01 | SU-04-081125     | SAM | 08/12/25 11:36 |      | sagar | OK       |
| 29 | Q2826-01 | WC1              | SAM | 08/12/25 11:38 |      | sagar | OK       |
| 30 | Q2827-01 | TP-8             | SAM | 08/12/25 11:41 | High | sagar | Dilution |
| 31 | Q2827-05 | TP-9             | SAM | 08/12/25 11:43 |      | sagar | OK       |
| 32 | Q2828-01 | POWDER           | SAM | 08/12/25 11:46 |      | sagar | OK       |
| 33 | CCV24    | CCV24            | CCV | 08/12/25 11:51 |      | sagar | OK       |
| 34 | CCB24    | CCB24            | CCB | 08/12/25 11:54 |      | sagar | OK       |
| 35 | Q2830-01 | BIN0009-DRIVEWAY | SAM | 08/12/25 11:56 |      | sagar | OK       |
| 36 | Q2830-03 | BIN0009-DRIVEWAY | SAM | 08/12/25 11:59 |      | sagar | OK       |
| 37 | Q2830-05 | BIN0009-DRIVEWAY | SAM | 08/12/25 12:01 |      | sagar | OK       |
| 38 | Q2830-07 | BIN0009-DRIVEWAY | SAM | 08/12/25 12:03 |      | sagar | OK       |

Instrument ID: CV1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136782**

|                  |                                                         |              |                      |
|------------------|---------------------------------------------------------|--------------|----------------------|
| Review By        | sagar                                                   | Review On    | 8/12/2025 1:34:59 PM |
| Supervise By     | jaswal                                                  | Supervise On | 8/12/2025 4:08:53 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                      |
| ICAL Standard    | MP86706,MP86707,MP86708,MP86709,MP86710,MP86711,MP86712 |              |                      |
| ICV Standard     | MP86713                                                 |              |                      |
| CCV Standard     | MP86715                                                 |              |                      |
| ICSA Standard    |                                                         |              |                      |
| CRI Standard     | MP86717                                                 |              |                      |
| LCS Standard     |                                                         |              |                      |
| Chk Standard     | MP86714,MP86716,MP86718,MP86721                         |              |                      |

|    |             |            |     |                |             |       |          |
|----|-------------|------------|-----|----------------|-------------|-------|----------|
| 39 | Q2831-01    | VNJ-238    | SAM | 08/12/25 12:06 |             | sagar | OK       |
| 40 | Q2831-01DUP | VNJ-238DUP | DUP | 08/12/25 12:08 |             | sagar | OK       |
| 41 | Q2831-01MS  | VNJ-238MS  | MS  | 08/12/25 12:10 |             | sagar | OK       |
| 42 | Q2831-01MSD | VNJ-238MSD | MSD | 08/12/25 12:12 |             | sagar | OK       |
| 43 | Q2831-01L   | VNJ-238L   | SD  | 08/12/25 12:15 |             | sagar | OK       |
| 44 | Q2831-01A   | VNJ-238A   | PS  | 08/12/25 12:17 |             | sagar | OK       |
| 45 | CCV25       | CCV25      | CCV | 08/12/25 12:32 |             | sagar | OK       |
| 46 | CCB25       | CCB25      | CCB | 08/12/25 12:37 |             | sagar | OK       |
| 47 | Q2808-01DL  | TP-7DL     | SAM | 08/12/25 12:44 | Report 100X | sagar | Confirms |
| 48 | Q2827-01DL  | TP-8DL     | SAM | 08/12/25 12:47 | Report 10X  | sagar | Confirms |
| 49 | CCV26       | CCV26      | CCV | 08/12/25 12:55 |             | sagar | OK       |
| 50 | CCB26       | CCB26      | CCB | 08/12/25 13:00 |             | sagar | OK       |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136801**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | Janvi                                           | Review On    | 8/15/2025 10:10:36 AM |
| Supervise By     | jaswal                                          | Supervise On | 8/19/2025 2:31:42 AM  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |              |                       |
| ICV Standard     | MP86752,MP86656                                 |              |                       |
| CCV Standard     | MP86646                                         |              |                       |
| ICSA Standard    | MP86651,MP86753                                 |              |                       |
| CRI Standard     | MP86656                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP86647,MP86648                                 |              |                       |

| Sr# | SampleId    | ClientID  | QcType | Date           | Comment | Operator | Status |
|-----|-------------|-----------|--------|----------------|---------|----------|--------|
| 1   | S0          | S0        | CAL1   | 08/13/25 11:56 |         | Jaswal   | OK     |
| 2   | S1          | S1        | CAL2   | 08/13/25 12:00 |         | Jaswal   | OK     |
| 3   | S2          | S2        | CAL3   | 08/13/25 12:04 |         | Jaswal   | OK     |
| 4   | S3          | S3        | CAL4   | 08/13/25 12:08 |         | Jaswal   | OK     |
| 5   | S4          | S4        | CAL5   | 08/13/25 12:12 |         | Jaswal   | OK     |
| 6   | S5          | S5        | CAL6   | 08/13/25 12:17 |         | Jaswal   | OK     |
| 7   | ICV01       | ICV01     | ICV    | 08/13/25 12:21 |         | Jaswal   | OK     |
| 8   | LLICV01     | LLICV01   | LLICV  | 08/13/25 12:28 |         | Jaswal   | OK     |
| 9   | ICB01       | ICB01     | ICB    | 08/13/25 12:33 |         | Jaswal   | OK     |
| 10  | CRI01       | CRI01     | CRDL   | 08/13/25 12:37 |         | Jaswal   | OK     |
| 11  | ICSA01      | ICSA01    | ICSA   | 08/13/25 12:41 |         | Jaswal   | OK     |
| 12  | ICSAB01     | ICSAB01   | ICSAB  | 08/13/25 12:45 |         | Jaswal   | OK     |
| 13  | ICSADL      | ICSADL    | ICSA   | 08/13/25 12:49 |         | Jaswal   | OK     |
| 14  | ICSABDL     | ICSABDL   | ICSAB  | 08/13/25 12:54 |         | Jaswal   | OK     |
| 15  | CCV01       | CCV01     | CCV    | 08/13/25 12:58 |         | Jaswal   | OK     |
| 16  | CCB01       | CCB01     | CCB    | 08/13/25 13:03 |         | Jaswal   | OK     |
| 17  | Q2828-01    | POWDER    | SAM    | 08/13/25 13:07 |         | Jaswal   | OK     |
| 18  | Q2828-01DUP | POWDERDUP | DUP    | 08/13/25 13:12 |         | Jaswal   | OK     |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136801**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | Janvi                                           | Review On    | 8/15/2025 10:10:36 AM |
| Supervise By     | jaswal                                          | Supervise On | 8/19/2025 2:31:42 AM  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |              |                       |
| ICV Standard     | MP86752,MP86656                                 |              |                       |
| CCV Standard     | MP86646                                         |              |                       |
| ICSA Standard    | MP86651,MP86753                                 |              |                       |
| CRI Standard     | MP86656                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP86647,MP86648                                 |              |                       |

|    |             |                  |     |                |                                               |        |    |
|----|-------------|------------------|-----|----------------|-----------------------------------------------|--------|----|
| 19 | Q2828-01L   | POWDERL          | SD  | 08/13/25 13:16 |                                               | Jaswal | OK |
| 20 | Q2828-01MS  | POWDERMS         | MS  | 08/13/25 13:20 |                                               | Jaswal | OK |
| 21 | Q2828-01MSD | POWDERMSD        | MSD | 08/13/25 13:25 |                                               | Jaswal | OK |
| 22 | Q2828-01A   | POWDERA          | PS  | 08/13/25 13:30 | 0.1 ml of each M6004 and M6017 in 10ml sample | Jaswal | OK |
| 23 | CCV02       | CCV02            | CCV | 08/13/25 13:42 |                                               | Jaswal | OK |
| 24 | CCB02       | CCB02            | CCB | 08/13/25 13:46 |                                               | Jaswal | OK |
| 25 | Q2830-01    | BIN0009-DRIVEWAY | SAM | 08/13/25 13:50 |                                               | Jaswal | OK |
| 26 | Q2830-03    | BIN0009-DRIVEWAY | SAM | 08/13/25 13:55 |                                               | Jaswal | OK |
| 27 | Q2830-05    | BIN0009-DRIVEWAY | SAM | 08/13/25 13:59 |                                               | Jaswal | OK |
| 28 | Q2830-07    | BIN0009-DRIVEWAY | SAM | 08/13/25 14:03 |                                               | Jaswal | OK |
| 29 | Q2831-01    | VNJ-238          | SAM | 08/13/25 14:07 |                                               | Jaswal | OK |
| 30 | Q2818-01    | B-2-5-1          | SAM | 08/13/25 14:11 |                                               | Jaswal | OK |
| 31 | Q2818-02    | B-3-5-2          | SAM | 08/13/25 14:16 |                                               | Jaswal | OK |
| 32 | Q2823-01    | SU-04-081125     | SAM | 08/13/25 14:20 |                                               | Jaswal | OK |
| 33 | Q2831-03    | VNJ-238          | SAM | 08/13/25 14:24 |                                               | Jaswal | OK |
| 34 | Q2831-03DUP | VNJ-238DUP       | DUP | 08/13/25 14:28 |                                               | Jaswal | OK |
| 35 | CCV03       | CCV03            | CCV | 08/13/25 14:33 |                                               | Jaswal | OK |
| 36 | CCB03       | CCB03            | CCB | 08/13/25 14:37 |                                               | Jaswal | OK |
| 37 | Q2831-03L   | VNJ-238L         | SD  | 08/13/25 14:41 |                                               | Jaswal | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136801**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | Janvi                                           | Review On    | 8/15/2025 10:10:36 AM |
| Supervise By     | jaswal                                          | Supervise On | 8/19/2025 2:31:42 AM  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |              |                       |
| ICV Standard     | MP86752,MP86656                                 |              |                       |
| CCV Standard     | MP86646                                         |              |                       |
| ICSA Standard    | MP86651,MP86753                                 |              |                       |
| CRI Standard     | MP86656                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP86647,MP86648                                 |              |                       |

|    |             |                  |     |                |                                               |        |    |
|----|-------------|------------------|-----|----------------|-----------------------------------------------|--------|----|
| 38 | Q2831-03MS  | VNJ-238MS        | MS  | 08/13/25 14:46 |                                               | Jaswal | OK |
| 39 | Q2831-03MSD | VNJ-238MSD       | MSD | 08/13/25 14:50 |                                               | Jaswal | OK |
| 40 | Q2831-03A   | VNJ-238A         | PS  | 08/13/25 14:54 | 0.1 ml of each M6004 and M6017 in 10ml sample | Jaswal | OK |
| 41 | PB169214BL  | PB169214BL       | MB  | 08/13/25 14:58 |                                               | Jaswal | OK |
| 42 | PB169214BS  | PB169214BS       | LCS | 08/13/25 15:02 |                                               | Jaswal | OK |
| 43 | PB169211BL  | PB169211BL       | MB  | 08/13/25 15:06 |                                               | Jaswal | OK |
| 44 | PB169215BL  | PB169215BL       | MB  | 08/13/25 15:15 |                                               | Jaswal | OK |
| 45 | PB169211BS  | PB169211BS       | LCS | 08/13/25 15:19 |                                               | Jaswal | OK |
| 46 | CCV04       | CCV04            | CCV | 08/13/25 15:23 |                                               | Jaswal | OK |
| 47 | CCB04       | CCB04            | CCB | 08/13/25 15:27 |                                               | Jaswal | OK |
| 48 | PB169200TB  | PB169200TB       | MB  | 08/13/25 15:31 |                                               | Jaswal | OK |
| 49 | Q2808-04    | TP-7             | SAM | 08/13/25 15:36 |                                               | Jaswal | OK |
| 50 | Q2826-02    | WC1              | SAM | 08/13/25 15:40 |                                               | Jaswal | OK |
| 51 | Q2827-04    | TP-8             | SAM | 08/13/25 15:45 |                                               | Jaswal | OK |
| 52 | Q2827-08    | TP-9             | SAM | 08/13/25 15:49 |                                               | Jaswal | OK |
| 53 | Q2808-01    | TP-7             | SAM | 08/13/25 15:53 |                                               | Jaswal | OK |
| 54 | Q2817-01    | LEAD-PAINT-CHIPS | SAM | 08/13/25 15:58 |                                               | Jaswal | OK |
| 55 | Q2819-06    | 11M-S            | SAM | 08/13/25 16:02 |                                               | Jaswal | OK |
| 56 | Q2819-11    | 84SB-W           | SAM | 08/13/25 16:06 |                                               | Jaswal | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB136801**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | Janvi                                           | Review On    | 8/15/2025 10:10:36 AM |
| Supervise By     | jaswal                                          | Supervise On | 8/19/2025 2:31:42 AM  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |              |                       |
| ICV Standard     | MP86752,MP86656                                 |              |                       |
| CCV Standard     | MP86646                                         |              |                       |
| ICSA Standard    | MP86651,MP86753                                 |              |                       |
| CRI Standard     | MP86656                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP86647,MP86648                                 |              |                       |

|    |             |            |     |                |                                               |        |    |
|----|-------------|------------|-----|----------------|-----------------------------------------------|--------|----|
| 57 | Q2819-14    | 17M-W      | SAM | 08/13/25 16:10 |                                               | Jaswal | OK |
| 58 | CCV05       | CCV05      | CCV | 08/13/25 16:14 |                                               | Jaswal | OK |
| 59 | CCB05       | CCB05      | CCB | 08/13/25 16:19 |                                               | Jaswal | OK |
| 60 | Q2820-09    | 705R-S     | SAM | 08/13/25 16:23 |                                               | Jaswal | OK |
| 61 | Q2820-10    | SOIL-DUP-2 | SAM | 08/13/25 16:27 |                                               | Jaswal | OK |
| 62 | Q2820-24    | 22M-S      | SAM | 08/13/25 16:31 |                                               | Jaswal | OK |
| 63 | Q2826-01    | WC1        | SAM | 08/13/25 16:35 |                                               | Jaswal | OK |
| 64 | Q2827-01    | TP-8       | SAM | 08/13/25 16:39 |                                               | Jaswal | OK |
| 65 | Q2827-05    | TP-9       | SAM | 08/13/25 16:44 |                                               | Jaswal | OK |
| 66 | Q2829-01    | SILICA     | SAM | 08/13/25 16:48 |                                               | Jaswal | OK |
| 67 | Q2832-09    | TG-S05     | SAM | 08/13/25 16:52 |                                               | Jaswal | OK |
| 68 | Q2832-09DUP | TG-S05DUP  | DUP | 08/13/25 16:56 |                                               | Jaswal | OK |
| 69 | Q2832-09L   | TG-S05L    | SD  | 08/13/25 17:00 |                                               | Jaswal | OK |
| 70 | CCV06       | CCV06      | CCV | 08/13/25 17:05 |                                               | Jaswal | OK |
| 71 | CCB06       | CCB06      | CCB | 08/13/25 17:09 |                                               | Jaswal | OK |
| 72 | Q2832-09MS  | TG-S05MS   | MS  | 08/13/25 17:13 |                                               | Jaswal | OK |
| 73 | Q2832-09MSD | TG-S05MSD  | MSD | 08/13/25 17:17 |                                               | Jaswal | OK |
| 74 | Q2832-09A   | TG-S05A    | PS  | 08/13/25 17:21 | 0.1 ml of each M6004 and M6017 in 10ml sample | Jaswal | OK |
| 75 | Q2832-03    | TG-S02     | SAM | 08/13/25 17:25 |                                               | Jaswal | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QCBatch ID # LB136801**

| Review By     | Janvi                                           | Review On    | 8/15/2025 10:10:36 AM |
|---------------|-------------------------------------------------|--------------|-----------------------|
| Supervise By  | jaswal                                          | Supervise On | 8/19/2025 2:31:42 AM  |
| STD. NAME     | STD REF.#                                       |              |                       |
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |              |                       |
| ICV Standard  | MP86752,MP86656                                 |              |                       |
| CCV Standard  | MP86646                                         |              |                       |
| ICSA Standard | MP86651,MP86753                                 |              |                       |
| CRI Standard  | MP86656                                         |              |                       |
| LCS Standard  |                                                 |              |                       |
| Chk Standard  | MP86647,MP86648                                 |              |                       |

|    |            |            |     |                |  |        |    |
|----|------------|------------|-----|----------------|--|--------|----|
| 76 | Q2832-05   | TG-S03     | SAM | 08/13/25 17:29 |  | Jaswal | OK |
| 77 | Q2832-07   | TG-S04     | SAM | 08/13/25 17:33 |  | Jaswal | OK |
| 78 | PB169215BS | PB169215BS | LCS | 08/13/25 17:42 |  | Jaswal | OK |
| 79 | CCV07      | CCV07      | CCV | 08/13/25 17:46 |  | Jaswal | OK |
| 80 | CCB07      | CCB07      | CCB | 08/13/25 17:50 |  | Jaswal | OK |

SOP ID : M7471B-Mercury-19

SDG No : N/A

Matrix : SOIL

Pipette ID: HG A

Balance ID : M SC-3

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 08/11/2025 Time : 16:30 Temp : 95 °C

End Digest Date: 08/11/2025 Time : 16:40 Temp : 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: *S/S*

Supervisor Signature: *SD*

Temp : 1. 95°C 2. N/A

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| ICV           | 30mL     | MP86713             |
| CCV           | 30mL     | MP86715             |
| CRA           | 30mL     | MP86717             |
| Blank Spike   | 0.48mL   | MP86706             |
| Matrix Spike  | 0.48mL   | MP86706             |

| Chemical Used           | ML/SAMPLE USED | Lot Number |
|-------------------------|----------------|------------|
| AQUA REGIA              | 2.5mL          | MP86719    |
| KMnO4 (5%)              | 4.5mL          | MP85893    |
| Hydroxylamine HCL (12%) | 2.0mL          | MP85895    |
| PTFE Boiling Stones     | -----          | M5582      |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---------------|------------------|---------------|---------|
| 0.0 ppb       | S0               | 30mL          | MP86707 |
| 0.05 ppb      | S0.05            | N/A           | N/A     |
| 0.2 ppb       | S0.2             | 30mL          | MP86708 |
| 2.5 ppb       | S2.5             | 30mL          | MP86709 |
| 5.0 ppb       | S5.0             | 30mL          | MP86710 |
| 7.5 ppb       | S7.5             | 30mL          | MP86711 |
| 10.0 ppb      | S10.0            | 30mL          | MP86712 |
| ICV           | ICV              | 30mL          | MP86713 |
| ICB           | ICB              | 30mL          | MP86714 |
| CCV           | CCV              | 30mL          | MP86715 |
| CCB           | CCB              | 30mL          | MP86716 |
| CRI           | CRI              | 30mL          | MP86717 |
| CHK STD       | CHK STD          | 30mL          | MP86718 |

Extraction Conformance/Non-Conformance Comments:

| N/A            |                                         |                          |
|----------------|-----------------------------------------|--------------------------|
| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location     |
| 08/11/25 16:50 | <i>S/S met dia</i>                      | <i>SD (detected lab)</i> |
|                | Preparation Group                       | Analysis Group           |

| Lab Sample ID | Client Sample ID               | Initial Weight (g) | Final Vol (ml) | pH  | Comment | Prep Pos |
|---------------|--------------------------------|--------------------|----------------|-----|---------|----------|
| PB169204BL    | PBS204                         | 0.51               | 35             | N/A | N/A     | 1-1      |
| PB169204BS    | LCS204                         | 0.51               | 35             | N/A | MP86706 | 2        |
| Q2808-01      | TP-7                           | 0.53               | 35             | N/A | N/A     | 3        |
| Q2809-01      | OR-03-08082025                 | 0.55               | 35             | N/A | N/A     | 4        |
| Q2818-01      | B-2-5-1                        | 0.52               | 35             | N/A | N/A     | 5        |
| Q2818-02      | B-3-5-2                        | 0.53               | 35             | N/A | N/A     | 6        |
| Q2819-06      | 11M-S                          | 0.55               | 35             | N/A | N/A     | 7        |
| Q2819-11      | 845B-W                         | 0.56               | 35             | N/A | N/A     | 8        |
| Q2819-14      | 17M-W                          | 0.52               | 35             | N/A | N/A     | 9        |
| Q2820-09      | 705R-S                         | 0.54               | 35             | N/A | N/A     | 10       |
| Q2820-10      | SOIL-DUP-2                     | 0.51               | 35             | N/A | N/A     | 11       |
| Q2820-24      | 22M-S                          | 0.51               | 35             | N/A | N/A     | 12       |
| Q2823-01      | SU-04-081125                   | 0.52               | 35             | N/A | N/A     | 13       |
| Q2826-01      | WC1                            | 0.51               | 35             | N/A | N/A     | 14       |
| Q2827-01      | TP-8                           | 0.59               | 35             | N/A | N/A     | 15       |
| Q2827-05      | TP-9                           | 0.57               | 35             | N/A | N/A     | 16       |
| Q2828-01      | POWDER                         | 0.56               | 35             | N/A | N/A     | 17       |
| Q2830-01      | BIN0009-DRIVEWAY-TP-SOUTH-EAST | 0.53               | 35             | N/A | N/A     | 18       |
| Q2830-03      | BIN0009-DRIVEWAY-TP-WEST       | 0.56               | 35             | N/A | N/A     | 19       |
| Q2830-05      | BIN0009-DRIVEWAY-TP-WESTSIDE   | 0.55               | 35             | N/A | N/A     | 20       |
| Q2830-07      | BIN0009-DRIVEWAY-TP-EASTSIDE   | 0.58               | 35             | N/A | N/A     | 21       |
| Q2831-01      | VNJ-238                        | 0.54               | 35             | N/A | N/A     | 22       |
| Q2831-01MS    | VNJ-238MS                      | 0.57               | 35             | N/A | MP86706 | 24       |
| Q2831-01MSD   | VNJ-238MSD                     | 0.54               | 35             | N/A | MP86706 | 25       |
| Q2831-01DUP   | VNJ-238DUP                     | 0.50               | 35             | N/A | N/A     | 23       |

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 08/12/2025 Time : 12:55 Temp : 97 °C

End Digest Date: 08/12/2025 Time : 14:55 Temp : 98 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: *SL*

Supervisor Signature: *JSP*

Temp : 1. 96°C 2. N/A

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| LFS-1         | 1.00     | M6180               |
| LFS-2         | 1.00     | M6181               |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |

| Chemical Used       | ML/SAMPLE USED | Lot Number |
|---------------------|----------------|------------|
| Conc. HNO3          | 5.00           | M6158      |
| 1:1 HNO3            | 10.00          | MP86404    |
| 30% H2O2            | 3.00           | M6170      |
| Conc. HCL           | 10.00          | M6151      |
| PTFE Boiling Stones | N/A            | M5581      |
| N/A                 | N/A            | N/A        |
| N/A                 | N/A            | N/A        |
| N/A                 | N/A            | N/A        |
| N/A                 | N/A            | N/A        |
| N/A                 | N/A            | N/A        |

## Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#5 CELL#35 97C

| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location |
|----------------|-----------------------------------------|----------------------|
| 08/12/25 15:55 | <i>SL met dig</i>                       | <i>JSP / Met Lab</i> |
|                | Preparation Group                       | Analysis Group       |

| Lab Sample ID | Client Sample ID | pH  | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment     | Prep Pos |
|---------------|------------------|-----|--------------------|----------------|--------------|-------------|---------|----------|-------------|----------|
| PB169211BL    | PBS211           | N/A | 2.00               | 100            | Colorless    | Colorless   | Fine    | N/A      | N/A         | 1        |
| PB169211BS    | LCS211           | N/A | 2.00               | 100            | Colorless    | Colorless   | Fine    | N/A      | M6180,M6181 | 2        |
| Q2808-01      | TP-7             | N/A | 2.42               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 3        |
| Q2809-01      | OR-03-08082025   | N/A | 2.34               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 4        |
| Q2817-01      | LEAD-PAINT-CHIPS | N/A | 2.27               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 5        |
| Q2818-01      | B-2-5-1          | N/A | 2.34               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 6        |
| Q2818-02      | B-3-5-2          | N/A | 2.33               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 7        |
| Q2819-06      | 11M-S            | N/A | 2.32               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 8        |
| Q2819-11      | 84SB-W           | N/A | 2.37               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 9        |
| Q2819-14      | 17M-W            | N/A | 2.36               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 10       |
| Q2820-09      | 705R-S           | N/A | 2.25               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 11       |
| Q2820-10      | SOIL-DUP-2       | N/A | 2.17               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 12       |
| Q2820-24      | 22M-S            | N/A | 2.24               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 13       |
| Q2823-01      | SU-04-081125     | N/A | 2.47               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 14       |
| Q2826-01      | WC1              | N/A | 2.19               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 15       |
| Q2827-01      | TP-8             | N/A | 2.26               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 16       |
| Q2827-05      | TP-9             | N/A | 2.32               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 17       |
| Q2828-01      | POWDER           | N/A | 2.16               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 18       |
| Q2828-01MS    | POWDERMS         | N/A | 2.45               | 100            | Brown        | Yellow      | Medium  | N/A      | M6180,M6181 | 20       |
| Q2828-01MSD   | POWDERMSD        | N/A | 2.30               | 100            | Brown        | Yellow      | Medium  | N/A      | M6180,M6181 | 21       |
| Q2828-01DUP   | POWDERDUP        | N/A | 2.33               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 19       |