



**LABORATORY ANALYTICAL REPORT**

Prepared by Billings, MT Branch

**Client:** MT Sulphur and Chemical  
**Project:** COA Q2 - Full Test  
**Lab ID:** B23030297-003  
**Client Sample ID:** MSCC YB High Purity Prills (99.9%)

**Revised Date:** 03/29/23  
**Report Date:** 03/17/23  
**Collection Date:** 03/03/23 15:45  
**Date Received:** 03/03/23  
**Matrix:** Solid

| Analyses                              | Result | Units   | Qualifiers | RL    | MCL/<br>QCL | Method      | Analysis Date / By   |
|---------------------------------------|--------|---------|------------|-------|-------------|-------------|----------------------|
| <b>PHYSICAL CHARACTERISTICS</b>       |        |         |            |       |             |             |                      |
| Moisture (As Received)                | ND     | wt%     |            | 0.2   |             | D2974       | 03/09/23 14:34 / srm |
| Ash                                   | 0.02   | wt%     |            | 0.01  |             | D2974       | 03/07/23 13:03 / jlw |
| <b>WATER EXTRACTABLE CONSTITUENTS</b> |        |         |            |       |             |             |                      |
| Chloride, 1:2                         | ND     | mg/kg   |            | 1     |             | E300.0      | 03/07/23 22:40 / caa |
| <b>CHEMICAL CHARACTERISTICS</b>       |        |         |            |       |             |             |                      |
| Carbon, Total                         | 0.02   | wt%     |            | 0.01  |             | Leco        | 03/14/23 16:30 / srm |
| Acidity, 1:2                          | ND     | mg/kg   |            | 10    |             | E305.1      | 03/09/23 17:19 / nrb |
| Nitrogen, Kjeldahl, Total as N        | ND     | mg/kg   |            | 100   |             | E351.2      | 03/09/23 16:02 / jaw |
| <b>SIEVE ANALYSIS</b>                 |        |         |            |       |             |             |                      |
| 0.5 in (12.5 mm), Retained            | < 0.1  | wt%-dry |            | 0.1   |             | SSSA 15-2   | 03/28/23 13:01 / srm |
| No. 4 (4.75 mm), Retained             | < 0.1  | wt%-dry |            | 0.1   |             | SSSA 15-2   | 03/28/23 13:01 / srm |
| No. 20 (850 um), Retained             | 99.4   | wt%-dry |            | 0.1   |             | SSSA 15-2   | 03/28/23 13:01 / srm |
| Pan                                   | 0.6    | wt%-dry |            | 0.1   |             | SSSA 15-2   | 03/28/23 13:01 / srm |
| <b>INORGANICS</b>                     |        |         |            |       |             |             |                      |
| Sulfur, by loss on ignition           | 100    | wt%     |            | 0.100 |             | Calculation | 03/07/23 13:03 / jlw |
| <b>METALS, TOTAL HF DIGESTION</b>     |        |         |            |       |             |             |                      |
| Silicon                               | ND     | wt%     |            | 1     |             | SW6010B     | 03/10/23 17:37 / jpv |
| <b>METALS, TOTAL - EPA SW846</b>      |        |         |            |       |             |             |                      |
| Aluminum                              | ND     | mg/kg   | D          | 2     |             | SW6020      | 03/16/23 16:35 / aem |
| Antimony                              | ND     | mg/kg   |            | 0.02  |             | SW6020      | 03/09/23 05:58 / jks |
| Arsenic                               | ND     | mg/kg   |            | 0.2   |             | SW6020      | 03/09/23 05:58 / jks |
| Barium                                | ND     | mg/kg   |            | 0.05  |             | SW6020      | 03/16/23 16:35 / aem |
| Beryllium                             | ND     | mg/kg   |            | 0.05  |             | SW6020      | 03/14/23 07:38 / aem |
| Boron                                 | ND     | mg/kg   | D          | 3     |             | SW6010B     | 03/15/23 06:17 / jpv |
| Cadmium                               | ND     | mg/kg   |            | 0.05  |             | SW6020      | 03/09/23 05:58 / jks |
| Calcium                               | ND     | mg/kg   | D          | 30    |             | SW6010B     | 03/15/23 06:17 / jpv |
| Chromium                              | ND     | mg/kg   | D          | 0.5   |             | SW6020      | 03/09/23 05:58 / jks |
| Cobalt                                | ND     | mg/kg   |            | 0.05  |             | SW6020      | 03/14/23 07:38 / aem |
| Copper                                | ND     | mg/kg   |            | 0.5   |             | SW6020      | 03/14/23 07:38 / aem |
| Iron                                  | ND     | mg/kg   | D          | 4     |             | SW6010B     | 03/15/23 06:17 / jpv |
| Lead                                  | ND     | mg/kg   |            | 0.05  |             | SW6020      | 03/09/23 05:58 / jks |
| Lithium                               | ND     | mg/kg   | D          | 0.5   |             | SW6020      | 03/14/23 07:38 / aem |
| Magnesium                             | ND     | mg/kg   | D          | 9     |             | SW6020      | 03/09/23 05:58 / jks |
| Manganese                             | ND     | mg/kg   | D          | 0.1   |             | SW6020      | 03/09/23 05:58 / jks |
| Molybdenum                            | ND     | mg/kg   |            | 0.05  |             | SW6020      | 03/09/23 05:58 / jks |
| Nickel                                | ND     | mg/kg   | D          | 0.5   |             | SW6020      | 03/14/23 07:38 / aem |
| Phosphorus                            | ND     | mg/kg   | D          | 9     |             | SW6010B     | 03/15/23 06:17 / jpv |
| Potassium                             | ND     | mg/kg   | D          | 9     |             | SW6020      | 03/09/23 05:58 / jks |
| Selenium                              | ND     | mg/kg   |            | 0.2   |             | SW6020      | 03/09/23 05:58 / jks |

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit  
D - Reporting Limit (RL) increased due to sample matrix

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



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|----------------------------------|--------|-------|------------|------|-------------|---------|----------------------|
| <b>METALS, TOTAL - EPA SW846</b> |        |       |            |      |             |         |                      |
| Silver                           | ND     | mg/kg | D          | 0.09 |             | SW6020  | 03/14/23 07:38 / aem |
| Sodium                           | 21     | mg/kg | D          | 20   |             | SW6020  | 03/09/23 05:58 / jks |
| Thallium                         | ND     | mg/kg |            | 0.05 |             | SW6020  | 03/09/23 05:58 / jks |
| Tin                              | ND     | mg/kg | D          | 5    |             | SW6020  | 03/09/23 05:58 / jks |
| Titanium                         | ND     | mg/kg | D          | 0.09 |             | SW6020  | 03/14/23 07:38 / aem |
| Vanadium                         | ND     | mg/kg |            | 0.1  |             | SW6020  | 03/16/23 16:35 / aem |
| Zinc                             | ND     | mg/kg |            | 1    |             | SW6020  | 03/14/23 07:38 / aem |
| Mercury                          | ND     | mg/kg |            | 0.1  |             | SW7471B | 03/07/23 12:12 / mh  |
| Tellurium                        | ND     | mg/kg |            | 1    |             | SW6020  | 03/08/23 11:53 / aem |

**Report Definitions:**

|   |   |
|---|---|
| RL - Analyte Reporting Limit                            | MCL - Maximum Contaminant Level               |
| QCL - Quality Control Limit                             | ND - Not detected at the Reporting Limit (RL) |
| D - Reporting Limit (RL) increased due to sample matrix |   |