

3M Company

# **Site Investigation Report**

Rail Lots - BRRTS #02-37-587000 Wausau, Marathon County, Wisconsin

February 2022

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February 8, 2022

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## 1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Site Investigation Report (SIR) on behalf of the 3M Company (3M) for the supplemental investigation of arsenic in soil at the three lots which consist of railroad track and right-of-way (ROW) located from Sherman Street to West Thomas Street in Wausau, Marathon County, Wisconsin (the Site, **Figure 1**). The supplemental investigation activities were outlined in the Revised Investigation Activities Work Plan dated September 8, 2021 and approved by the Wisconsin Department of Natural Resources (WDNR) via email on September 29, 2021. The activities were conducted at the Site by Arcadis on November 12, 2021.

The Site consists of three lots approximately 0.23 acres (Lot 1), 1.74 acres (Lot 2), and 0.29 acres (Lot 3) in size and consists of railroad track and ROW (**Figure 2**). According to historical aerial photographs and topographic maps, the Site appears to have been developed with railroad tracks since 1898. 3M purchased the Site in November 2020.

The Site is surrounded by Bureau for Remediation and Redevelopment Tracking System Activity #02-37-000273 (3M Wausau Downtown Parking Lot, Closed) to the west and #02-37-000006 (Wauleco SNE Corp, Open) to the east. The adjacent properties to the east and west of the Site have been owned by 3M since at least 1961 and the current development footprint surrounding the Site has been consistent since at least 1998.

In September 2020, Arcadis conducted a Phase II Environmental Site Assessment of the Site to support a property transaction. A total of five soil borings were advanced throughout the Site with three being converted to temporary monitoring wells. Based on the analytical results, the *Notification for Hazardous Substance Discharge (Non-Emergency Only) Form 4400-225* (WDNR Notification Form) was submitted to the WDNR on December 18, 2020, by 3M. The WDNR Notification Form included a site map, soil and groundwater analytical result tables, laboratory reports, and identified the arsenic exceedances at SB-04 (0 to 4 feet below ground surface [bgs]) and SB-05 (0 to 4 feet bgs) as the reason for the submittal.

A letter was received from the WDNR dated February 26, 2021, which outlined the requirements for the Site. Based on the property transaction completed between 3M and Canadian National Railway in November 2020 and the discussion with WDNR Matt Thompson on June 24, 2021, 3M is the current owner of the Site and agreed to work with the WDNR to complete additional shallow soil sampling related to arsenic exceedances at SB-01 (0 to 4 feet bgs) at 7.7 milligram per kilogram (mg/kg), SB-02 (0 to 4 feet bgs) at 3.3 mg/kg, SB-04 (0 to 4 feet bgs) at 55 mg/kg and SB-05 (0 to 4 feet bgs) at 8.6 mg/kg.

The supplemental investigation activities were outlined in the Revised Investigation Activities Work Plan dated September 8, 2021 and approved by the WDNR via email on September 29, 2021. The activities were conducted by Arcadis on November 12, 2021.

## 2 Site Investigation

The November 2021 supplemental investigation was performed to evaluate arsenic in soil at the Site. As outlined in the Revised Investigation Activities Work Plan, up to 13 new soil borings were proposed to be advanced to depths of four feet bgs.

Drilling activities were coordinated with Braun Intertec of La Crosse, Wisconsin. Two samples from each soil boring were collected and submitted to Eurofins TestAmerica in University Park, Illinois for laboratory analysis.

**Table 1** presents the sampling summary for the site investigation activities.

## 2.1 Site Geologic and Hydrogeologic Conditions

The Site's near-surface geology consists of sedimentary-derived deposits. Ground surface cover across the Site consists of either gravel, asphalt, or grass. Underlying the surface cover material are sedimentary-derived deposits consisting of sand and silt units. The sand and silt units contain little to some gravel (fine to coarse) and trace cobbles and boulders. These units were encountered from below the ground surface cover to the bottom of each borehole.

## 2.2 Subsurface Investigation

Prior to any intrusive work, site utilities were cleared in accordance with the Arcadis Utility Locate Policy, with a minimum of three lines of evidence. Arcadis contacted the Wisconsin 811 One-Call, contracted Ground Penetrating Radar Systems, Inc., and reviewed figures provided by the facility to confirm the locations of known utilities.

On November 12, 2021, 12 new soil borings were advanced, using direct-push technology. Soil borings were advanced to a depth of four feet bgs at each location and continuous soil cores were logged by Arcadis field personnel prior to sampling. Two samples from each boring were collected, 0 to 2 feet bgs and 2 to 4 feet bgs and submitted for arsenic laboratory analysis. Following completion of each boring, each was abandoned and patched to match ground surface. One proposed location (SB-02B) was not completed due to drill rig inaccessibility. Soil boring logs are included in **Appendix A** and soil boring abandonment logs are included in **Appendix B**.

Soil cuttings generated during the site investigation activities were collected in one 55-gallon steel drum. The drum was staged at the 3M facility awaiting disposal to the 3M-Cottage Grove, Minnesota facility.

## 3 Site Investigation Results

A total of 27 soil samples (24 investigative and three duplicates) were collected from the 12 new soil boring locations and analyzed for arsenic, as outlined in **Table 1**. Soil data was compared to the Natural Resources (NR) 720 Wisconsin Administrative Code (WAC) Direct Contact Industrial (DCI) and Leaching Soil to Groundwater screening criteria. Arsenic concentrations in soil were not compared to the arsenic NR720 Wisconsin Background Threshold Value (8 mg/kg) per previous communications with the WDNR.

Arsenic was detected in 26 of the 27 collected soil samples. Thirteen soil samples exceeded the NR720 WAC DCI screening criteria of 3 mg/kg:

- SB-1A (0-2), 12 mg/kg
- SB-1A (2-4), 3.2 mg/kg
- SB-2A (0-2), 3.2 mg/kg
- SB-2C (0-2), 3.2 mg/kg
- SB-4A (0-2), 3.8 mg/kg
- SB-4B (0-2), 64 mg/kg
- SB-4C (0-2), 3.1 mg/kg

- SB-4C (2-4), 3.7 mg/kg
- SB-5A (0-2), 6.1 mg/kg
- SB-5A (2-4), 5.7 mg/kg
- SB-5B (0-2), 5.9 mg/kg
- SB-5B (2-4), 9.2 mg/kg
- SB-5C (0-2), 7.8 mg/kg

**Table 2** presents the soil analytical results, **Figure 3** presents a summary of sample locations and analytical results, and the soil analytical laboratory report is included in **Appendix C**.

## 4 Conclusion and Recommendations

Based on the soil analytical results, 3M is recommending the following next steps which are also presented on **Figure 3**:

- Lot 1: As discussed with WDNR on January 28, 2022, excavation activities were conducted within a majority
  of the lot in December 2020 to support drainage issues. Soils were excavated to approximately 2 feet bgs
  with new gravel/ballast being backfilled throughout the excavation extents. The SB-01 location from
  September 2020 was located within the excavation extents.
  - Excavation and backfill activities are proposed throughout the remainder of the Lot 1 parcel boundaries,
     not part of the December 2020 excavation/backfill activity, as shown on Figure 3.
    - As discussed with WDNR on January 28, 2022, no further off-site delineation activities are being proposed. The proposed excavation and backfill activities will provide a clean buffer between the rail tracks and the parcel boundary, a distance of nearly 30 feet.
- Lot 2 (SB-02 area)
  - Due to the arsenic concentrations being slightly above the NR720 WAC DCI screening criteria of 3 mg/kg and the constraints of being able to complete remedial actions in this area, no further delineation activities are being proposed. As discussed with WDNR on January 28, 2022, a land-use restriction may be proposed.
- Lot 2 (SB-04 area): As discussed with WDNR on January 28, 2022, and as outlined in the As-Built Report dated February 2, 2022, the excavation/cover activities associated with the drainage project were completed in December 2021. The SB-04 location from September 2020 was located within the excavation extents.
  - Excavation and backfill activities are proposed near SB-04A. The excavation extents would be to the
    drainage project extents to the north and south, to the parcel boundary to the west, and to the rail tracks
    to the east, as shown on Figure 3.
    - As discussed with WDNR on January 28, 2022, no further delineation activities are being proposed.
       The proposed excavation and backfill activities will provide a clean buffer between the rail tracks and the west parcel boundary, a distance of nearly 25 feet.
  - Excavation and backfill activities are proposed in the southeast corner of Lot 2 near SB-04B and SB-04C. The excavation extents would be to the drainage project extents to the north, to the rail tracks to the west, to the parcel boundary to the south, and to the building to the east, as shown on Figure 3.
- Lot 3
  - Excavation and backfill activities are proposed throughout the entire eastern portion of the lot. The
    excavation extents would be from Thomas Street to the eastern and southern extent of the parcel
    boundary and from the rail tracks to the parcel boundary to the east, as shown on Figure 3.

A Remedial Action Plan will be prepared and submitted for WDNR review which will provide details for the recommendations above.

# **Tables**

Table 1
Summary of Sample Locations
3M Company
Rail Lots
Wausau, WI



|                |               |               |                        | Total                        | Soil Sample                        | Soil Sample Analysis                           |
|----------------|---------------|---------------|------------------------|------------------------------|------------------------------------|--|
| Location<br>ID | Latitude      | Longitude     | Boring<br>Install Date | Depth<br>Drilled<br>(ft bgs) | Intervals<br>Collected<br>(ft bgs) | RCRA Metals                                    |
| Soil Borin     | igs           |               |                        |                              |                                    |  |
| SB-01A         | 44°57'8.92"N  | 89°38'16.14"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-02A         | 44°57'6.83"N  | 89°38'14.43"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-02B         | 44°57'5.88"N  | 89°38'13.92"W | 11/12/2021             | Soil borin                   |                                    | ole to be completed due to drill ccessability. |
| SB-02C         | 44°57'6.33"N  | 89°38'14.14"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-02D         | 44°57'6.34"N  | 89°38'14.68"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-04A         | 44°56'55.26"N | 89°38'14.49"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-04B         | 44°56'54.61"N | 89°38'13.92"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-04C         | 44°56'54.79"N | 89°38'13.80"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-04D         | 44°56'54.90"N | 89°38'14.32"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-05A         | 44°56'53.20"N | 89°38'13.95"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-05B         | 44°56'52.85"N | 89°38'13.95"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-05C         | 44°56'53.02"N | 89°38'13.77"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |
| SB-05D         | 44°56'53.01"N | 89°38'14.41"W | 11/12/2021             | 4                            | 0-2, 2-4                           | Arsenic Only                                   |

### **Acronyms and Abbreviations:**

bgs - below ground surface

ft - feet

RCRA - Resource Conservation and Recovery Act

Table 2 Summary of Soil Analytical Results 3M Company Rail Lots Wausau, WI



|           | NR720 \                                 | Wisconsin                | Location ID  | SB-01           | SB-01           | SB-01           | SB-01A        | SB-01A       | SB-02        | SB-02           |
|-----------|---|--------------------------|--------------|-----------------|-----------------|-----------------|---------------|--------------|--------------|-----------------|
|           | Administ                                | rative Code              | Sample ID    | SB-01 (0-4)     | SB-01 (28-31)   | DUP-01 (092620) | SB-01A (0-2)  | SB-01A (2-4) | SB-02 (0-4)  | SB-02 (24-26)   |
|           | Screenir                                | ng Criteria <sup>1</sup> | Sample Date  | 9/26/2020       | 9/26/2020       | 9/26/2020       | 11/12/2021    | 11/12/2021   | 9/30/2020    | 9/30/2020       |
|           | Direct                                  | Leaching Soil            | Sample Depth |                 |                 |                 |               |              |              |                 |
| Chemical  | Contact                                 | to                       |              | 0-4 ft bgs      | 28-31 ft bgs    | 28-31 ft bgs    | 0-2 ft bgs    | 2-4 ft bgs   | 0-4 ft bgs   | 24-26 ft bgs    |
| Name      | Industrial                              | Groundwater              | Unit         |                 |                 |                 |               |              |              |                 |
|           | Is (Method SV                           |                          |              |                 |                 |                 |               |              |              |                 |
| Arsenic   | 3                                       | 0.584                    | mg/kg        | 7.7*            | 0.99            | 1.2             | 12            | 3.2          | 3.3          | 1.1             |
|           |   |                          |              |                 |                 |                 |               |              |              |                 |
|           | NR720 \                                 | Visconsin                | Location ID  | SB-02A          | SB-02A          | SB-02C          | SB-02C        | SB-02D       | SB-02D       | SB-02D          |
|           | Administ                                | rative Code              | Sample ID    | SB-02A (0-2)    | SB-02A (2-4)    | SB-02C (0-2)    | SB-02C (2-4)  | SB-02D (0-2) | SB-02D (2-4) | DUP-02 (111221) |
|           | Screeni                                 | ng Criteria              | Sample Date  | 11/12/2021      | 11/12/2021      | 11/12/2021      | 11/12/2021    | 11/12/2021   | 11/12/2021   | 11/12/2021      |
|           | Direct                                  | Leaching Soil            | Sample Depth |                 |                 |                 |               |              |              |                 |
| Chemical  | Contact                                 | to                       | Sample Type  | 0-2 ft bgs      | 2-4 ft bgs      | 0-2 ft bgs      | 2-4 ft bgs    | 0-2 ft bgs   | 2-4 ft bgs   | 2-4 ft bgs      |
| Name      | Industrial                              | Groundwater              | Unit         |                 |                 |                 |               |              |              |                 |
| RCRA Meta | Metals (Method SW846 6020A)             |                          |              |                 |                 |                 |               |              |              |                 |
| Arsenic   | 3 0.584                                 |                          | mg/kg        | 3.2             | < 0.49          | 3.2             | 0.77 J        | 2.5          | 1.6          | 2.4             |
|           |   |                          | 0 0          |                 |                 |                 |               |              | Д.           |                 |
|           | NR720 Wisconsin                         |                          | Location ID  | SB-03           | SB-03           | SB-04           | SB-04         | SB-04A       | SB-04A       | SB-04A          |
|           | Administrative Code                     |                          | Sample ID    | SB-03 (0-4)     | SB-03 (24-27.5) | SB-04 (0-4)     | SB-04 (24-26) | SB-04A (0-2) | SB-04A (2-4) | DUP-01 (111221) |
|           | Screening                               |                          | Sample Date  | 9/26/2020       | 9/26/2020       | 9/30/2020       | 9/30/2020     | 11/12/2021   | 11/12/2021   | 11/12/2021      |
|           | Direct                                  | Leaching Soil            | Sample Depth |                 |                 |                 |               |              |              |                 |
| Chemical  | Contact                                 | to                       | Sample Type  | 0-4 ft bgs      | 24-27.5 ft bgs  | 0-4 ft bgs      | 24-26 ft bgs  | 0-2 ft bgs   | 2-4 ft bgs   | 2-4 ft bgs      |
| Name      | Industrial                              | Groundwater              | Unit         | •               |                 | \$ 1.12 mgs     |               | 0go          |              |                 |
|           | Is (Method SV                           |                          |              |                 |                 |                 |               |              |              |                 |
| Arsenic   | 3                                       | 0.584                    | mg/kg        | 1.8             | 1               | 55*             | 0.63 J        | 3.8          | 0.73 J       | 0.57 J          |
|           |   |                          | 3 3          |                 |                 |                 |               |              |              | •               |
|           | NR720 \                                 | Visconsin                | Location ID  | SB-04B          | SB-04B          | SB-04C          | SB-04C        | SB-04D       | SB-04D       | SB-05           |
|           | Administ                                | rative Code              | Sample ID    | SB-04B (0-2)    | SB-04B (2-4)    | SB-04C (0-2)    | SB-04C (2-4)  | SB-04D (0-2) | SB-04D (2-4) | SB-05 (0-4)     |
|           |   | ng Criteria              | Sample Date  | 11/12/2021      | 11/12/2021      | 11/12/2021      | 11/12/2021    | 11/12/2021   | 11/12/2021   | 9/30/2020       |
|           | Direct                                  | Leaching Soil            | Sample Depth |                 |                 |                 |               |              |              |                 |
| Chemical  | Contact                                 | to                       | Sample Type  | 0-2 ft bgs      | 2-4 ft bgs      | 0-2 ft bgs      | 2-4 ft bgs    | 0-2 ft bgs   | 2-4 ft bgs   | 0-4 ft bgs      |
| Name      | Industrial                              | Groundwater              | Unit         |                 |                 |                 |               |              |              |                 |
|           | Is (Method SV                           |                          |              |                 |                 |                 |               |              |              |                 |
| Arsenic   | 3                                       | 0.584                    | mg/kg        | 64              | 2.4             | 3.1             | 3.7           | 0.77 J       | 0.39 J       | 8.6             |
|           |   | 0.00 .                   | שייישייי     |                 |                 | •               |               | ····· ·      | 1 0.000      |                 |
|           | NR720 \                                 | Visconsin                | Location ID  | SB-05           | SB-05A          | SB-05A          | SB-05B        | SB-05B       | SB-05C       | SB-05C          |
|           |   | rative Code              | Sample ID    | SB-05 (29-31.5) | SB-05A (0-2)    | SB-05A (2-4)    | SB-05B (0-2)  | SB-05B (2-4) | SB-05C (0-2) | SB-05C (2-4)    |
|           |   | ng Criteria              | Sample Date  | 9/30/2020       | 11/12/2021      | 11/12/2021      | 11/12/2021    | 11/12/2021   | 11/12/2021   | 11/12/2021      |
|           | Direct                                  | Leaching Soil            | Sample Depth | 0/00/2020       | 11/12/2021      | 11/12/2021      | 11/12/2021    | 111111111    | 11/12/2021   | 11/12/2021      |
| Chemical  | Contact                                 | to                       | Sample Type  | 29-31.5 ft bgs  | 0-2 ft bgs      | 2-4 ft bgs      | 0-2 ft bgs    | 2-4 ft bgs   | 0-2 ft bgs   | 2-4 ft bgs      |
| Name      | Industrial                              | Groundwater              | Unit         |                 | 0 = 11 0 9 0    |                 |               | 2 110 090    | 0 2 11 090   | _ 110 bgo       |
|           | RCRA Metals (Method SW846 6020A)        |                          | Onic         |                 |                 |                 |               |              |              |                 |
| Arsenic   | , |                          |              | 1.7             | 6.1             | 5.7             | 5.9           | 9.2          | 7.8          | 1,4             |
| MISCHIC   | Arsenic 3 0.584                         |                          | mg/kg        | 1.7             | 0.1             | 3.1             | J.3           | 3.2          | 7.0          | 1.44            |



|                  | NR720 \                          | Visconsin     | Location ID  | SB-05D       | SB-05D       | SB-05D          |  |  |  |  |  |  |  |  |
|------------------|----------------------------------|---------------|--------------|--------------|--------------|-----------------|--|--|--|--|--|--|--|--|
|                  | Administ                         | rative Code   | Sample ID    | SB-05D (0-2) | SB-05D (2-4) | DUP-03 (111221) |  |  |  |  |  |  |  |  |
|                  | Screenii                         | ng Criteria   | Sample Date  | 11/12/2021   | 11/12/2021   | 11/12/2021      |  |  |  |  |  |  |  |  |
|                  | Direct                           | Leaching Soil | Sample Depth |              |              |                 |  |  |  |  |  |  |  |  |
| Chemical         | Contact                          | to            | Sample Type  | 0-2 ft bgs   | 2-4 ft bgs   | 2-4 ft bgs      |  |  |  |  |  |  |  |  |
| Name             | Industrial                       | Groundwater   | Unit         |              |              |                 |  |  |  |  |  |  |  |  |
| <b>RCRA Meta</b> | RCRA Metals (Method SW846 6020A) |               |              |              |              |                 |  |  |  |  |  |  |  |  |
| Arsenic          | 3                                | 0.584         | mg/kg        | 2.9          | 1.1          | 0.78 J          |  |  |  |  |  |  |  |  |

#### **Qualifier Definitions:**

- < Result < MDL
- J Result < RL but ≥ to MDL, concentration is approximate value

#### Acronyms and Abbreviations:

ft bgs - feet below ground surface

ID - identification

MDL - method detection limit

mg/kg - milligram per kilogram

RL - reporting limit

RCRA - Resource Conservation and Recovery Act

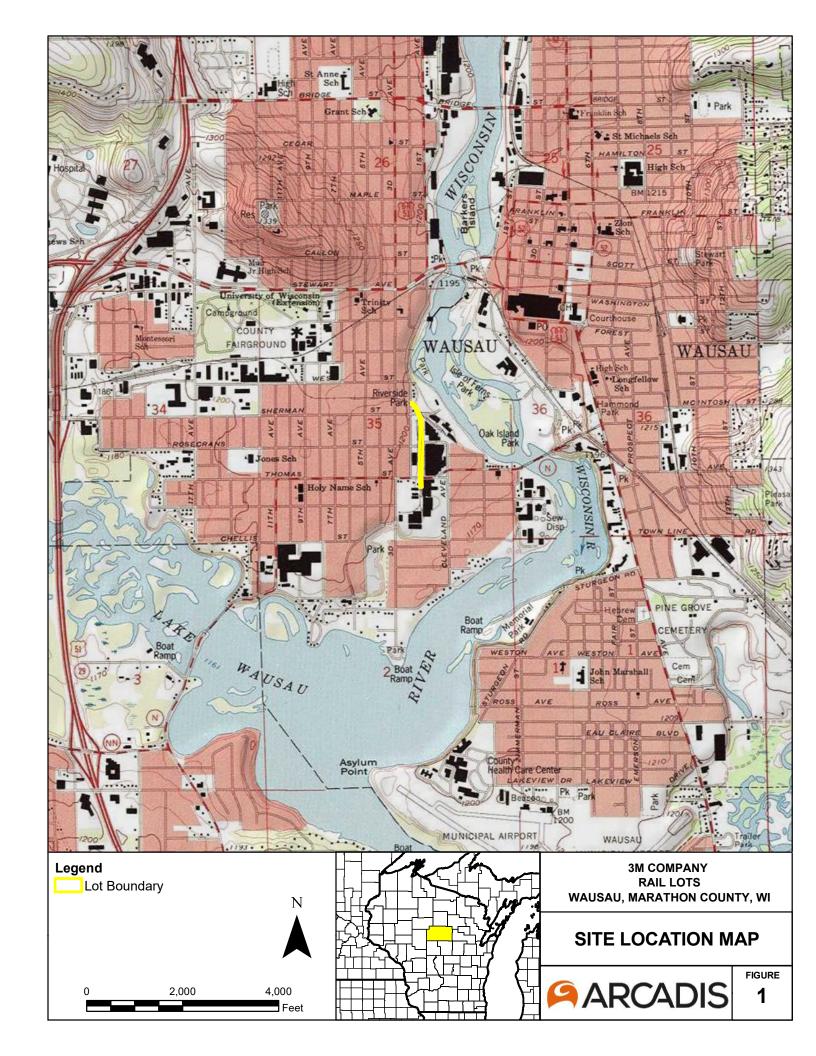
#### Notes:

1 - Background Threshold Values: Arsenic (8 mg/kg)

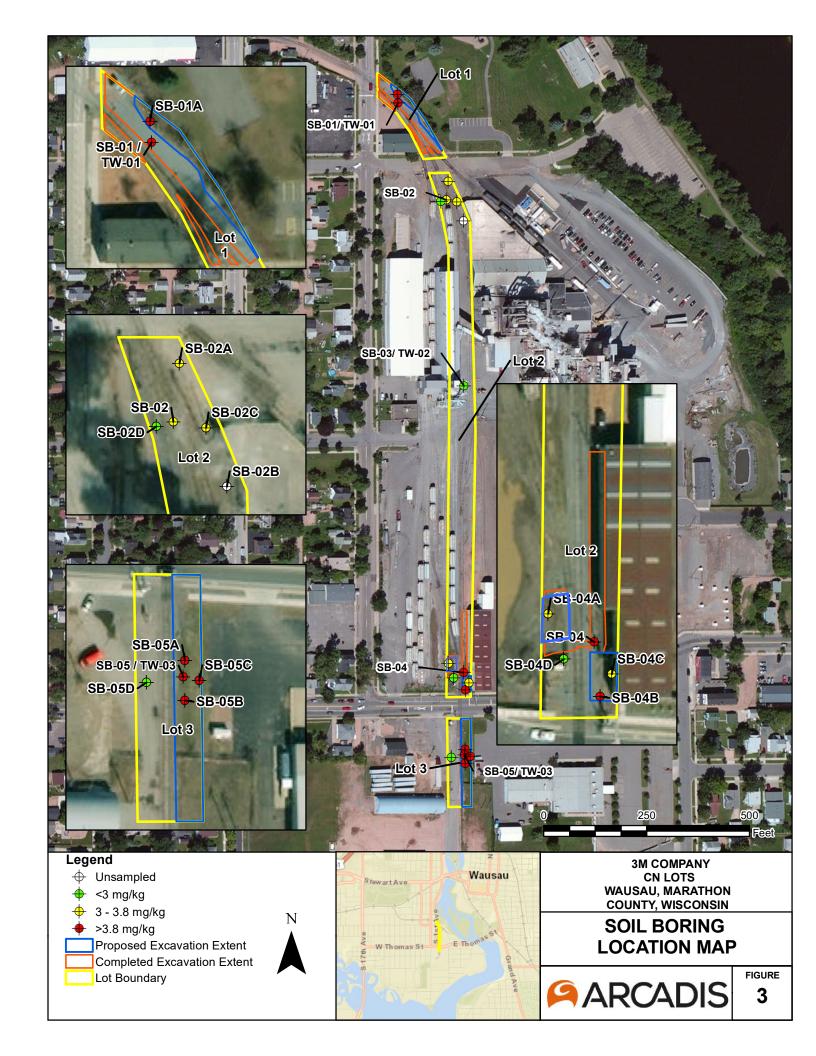
\*Soil boring location/soils within excavation extents of December 2020 event (SB-01) and December 2021 event (SB-04)

| Con borning location come within executation extente of December 2020 event (OD 01) and | Doc |
|---|-----|
| Result exceeds all NR720 WAC screening criteria outlined                                |     |
| Result exceeds Leaching Soil to Groundwater screening criteria                          |     |

# **Figures**







# **Appendix A**

**Soil Boring Logs** 

| ·                  |  |       | <u>F</u>   | Route to: Watershed/Wastewater Remediation/Redevelopment  |          |        |          | ement [           | ]                   |              |                         |                     |                 |                  |                   |                   |
|--------------------|--|-------|--|---|----------|--------|----------|-------------------|---------------------|--------------|-------------------------|---------------------|-----------------|------------------|-------------------|-------------------|
|                    |  |       |  |   |          |        |          |                   |                     |              |                         |                     | F               | Page _           | 1                 | _ of1_            |
| Facility/          | Project N  |       |  |   |          | Licens | se/Peri  | mit/Mon           | itoring N           | lumber       |                         | В                   | oring N         | lumber           |                   |                   |
| Boring (           |  | Vausa |  | chief (first, last) and Firm  |          | Date [ | Orilling | Started           | I                   | Date [       | Orilling C              | omple               |                 | B-01<br>Drilling |                   | hod               |
| First Na           | <sub>me</sub> Tr   | avis  |  | Last Name   |          |        |          | 2/21              |                     |              | 1/12/                   |                     |                 | Dire             | ct P              | ush               |
|                    |  |       |  | mples, LLC DNR Well ID No.   Well Name  |          |        |          |                   |                     |              |                         |                     |                 | Tecl             |                   |                   |
| WIUnic             | jue Well   | NO.   |  | DNK Well ID No.   Well Name   |          | Final  | Static   | Water Le          |                     | Surfac       | e Elevati               |                     | t MSL           |                  | ole D<br><b>2</b> | iameter<br>inches |
| Local G            | id Origir  | n 🔲 ( | estimat  | red:  |          |        |          |                   |                     | Local G      | irid Loca               | tion                |                 |                  |                   |                   |
| State P            |  |       |  |   | XI F     | Lat    |          |                   |                     |              | Га                      | et 🗆                |                 |                  |                   | □ E<br>Feet □ w   |
| Facility           |  |       | . 1/4 01<br>Cou  | Section ,T N,R<br>unty Cou  | <u> </u> |        | _        | Civil Tow         | n/City/o            | r Village    |                         | et 🗀                | <u> </u>        |                  |                   | reet 🗀 W          |
|                    |  |       |  | Marathon  | 37       |        | _        | V                 | Vausa               | u            |                         |                     |                 |                  |                   |                   |
| Sam                | <u> </u>   |       |  |   |          |        |          |                   |                     |              |                         | Soil F              | ropei           | rties            |                   |                   |
| Number<br>and Type | Number and Type  Length All. & Recording to Blow Counts  Blow Counts  Blow Counts  Blow Counts  Blow Counts  Each Major Unit |       |  |   |          |        | USCS     | Graphic<br>Log    | Well<br>Diagram     | PID/FID      | Compressive<br>Strength | Aoisture<br>Content | Liquid<br>Limit | Plastic<br>Limit | P 200             | RQD/<br>Comments  |
| 1                  | 1.9'   |       | 0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0-4/ 0-3.5': Fine to coarse sand, some silt, t subangular, dry to moist, trace foundr dark brown. 3.5-4.0': Fine to coarse sand, some gra subangular, light brown, loose, dry.  EOB @4' | ry sand, |        |          |                   |                     |              |                         |                     |                 |                  |                   |                   |
| Signatu            | ro   | -     |  | mation on this form is true and correct   | Firm     | ARC/   | ADIS     |                   |                     |              |                         |                     |                 |                  |                   |                   |
|                    | 0  | See   | 6  | Lower   | '        | 126 N  | ۷. Jef   | ferson<br>e, WI(4 | St., Sui<br>414) 27 | te<br>'6-774 | -2                      |                     |                 |                  |                   |                   |

| o opur u.  | iche or re        | acararric                | <u>]</u>   | Route to: Watershed/Wastewater Remediation/Redevelopi   |  |                  |          | ement [            | ]                   |             |                         |                     | 0 122 |                |        | New 7 30         |
|--|-------------------|--------------------------|--|---|--|------------------|----------|--------------------|---------------------|-------------|-------------------------|---------------------|-------|----------------|--------|------------------|
|  |                   |                          |  |   |  |                  |          |                    |                     |             |                         |                     |       |                |        | of 1             |
| Facility/  | Project N         | <sub>lame</sub><br>Vausa |  |   |  | Licens           | se/Peri  | mit/Mon            | itoring N           | lumber      |                         | В                   |       | lumber<br>B-02 |        |                  |
| Boring I   |                   |                          |  | chief (first, last) and Firm  |  | Date [           | Orilling | Started            |                     | Date [      | Orilling C              | omple               |       | Drilling       |        | hod              |
| First Na   | <sub>ime</sub> Tr | avis                     |  | Last Name<br>mples, LLC   |  | l                |          | 2/21               |                     |             | 1/12/                   |                     |       | Dire           | ct P   | ush              |
|  | que Well I        |                          |  | DNR Well ID No. Well Name   |  | Final            | Static   | Water Le           |                     | Surfac      | e Elevati               |                     | t MSL |                | ole Di | ameter<br>inches |
| Local G<br>State P   | lane              |                          |  |   | ]/C□/N□<br>  <b>X</b>   F  | Lat              |          |                    |                     | Local G     | irid Loca               |                     |       |                |        | ΠE               |
| Fa attent  | 1/4 of            |                          | 1/4 of   | Section,TN,R<br>unty  | <u></u> □ W  |                  | _        | C                  | (6); (              |             |                         | et 🔲                | S _   |                |        | Feet W           |
| Facility   | ID                |                          | Co   | Marathon  | County Cod   | e                | 1        |                    | n/City/o            | -           | 5                       |                     |       |                |        |                  |
| Sam  | ple               |                          | Τ  | Maracriori  |  | П                |          |                    | vaasa               |             |                         | Soil F              | rope  | rties          |        |                  |
| Sample  Recovered (in)  Blow Counts  Blow Counts  Blow Counts  Blow Counts  Blow Counts  Each Major Unit  Blow Counts  Each Major Unit |                   |                          |  |   |  |                  | USCS     | Graphic<br>Log     | Well<br>Diagram     | PID/FID     | Compressive<br>Strength | Moisture<br>Content |       |                | P 200  | RQD/<br>Comments |
| 1  | 2.3'              |                          | 0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0-4/ 0-1.5': Fine to medium sand, trace angular, moist, dark brown, mode 1.5-2.0': Fine to medium sand, trace moist, moderately dense, black, tr sand. 2.0-2.2': Silt, trace clay, not plastic, brown/white, dry. 2.2-4.0': Fine sand, some silt, trace coarse sand, very light brown/white/t': Brown, fine to coarse sand, trace EOB @4' | rately dens<br>ce coarse sa<br>race foundr<br>very light<br>medium<br>ite.<br>ce gravel. | re.<br>and,<br>y |          |                    |                     |             |                         |                     |       |                |        |                  |
| I hereb<br>Signatu   | ro                | -                        |  | mation on this form is true and cor   | rrect to the<br>Firm   | best o           |          | nowled             | dge.                |             |                         |                     |       |                |        |                  |
| <b>J</b>   | Ou                | Se.                      | 6  | Lectrem   |  | 126 N            | ۷. Jef   | ferson<br>e, WI (4 | St., Sui<br>414) 27 | te<br>6-774 | .2                      |                     |       |                |        |                  |

## Soil Boring Log Information

Form 4400-122 Rev. 7-98

|                    |  |                          | <u>F</u> | Route to: Watershed/Wastewater Remediation/Redevelopm                    |              |        |          | ement [        |                     |              |                         |                     |                |                  |               |                  |
|--------------------|--|--------------------------|----------|--|--------------|--------|----------|----------------|---------------------|--------------|-------------------------|---------------------|----------------|------------------|---------------|------------------|
|                    |  |                          |          | ·  |              |        |          |                |                     |              |                         |                     | ı              | Page _           | 1             | of1_             |
| Facility/          | Project N  | <sub>lame</sub><br>Vausa |          |  |              | Licens | se/Peri  | mit/Mon        | itoring N           | lumber       |                         | Во                  |                | lumbei<br>B-02   |               |                  |
| Boring [           |  |                          |          | chief (first, last) and Firm   |              | Date [ | Orilling | Started        |                     | Date [       | Orilling C              | omple               |                | Drilling         |               | hod              |
|                    | me Tr  |                          | 1.0      | Last Name  |              |        | 11/1     | 2/21           |                     | 1            | 1/12/                   | 21                  |                |                  | ect P         |                  |
|                    | ue Well I  |                          |          | mples, LLC DNR Well ID No. Well Name                                     |              | Final  | Static   | Water Le       | evel                | Surfac       | e Elevati               | on                  |                |                  | hnol<br>ole D | iameter          |
| Local Cr           | id Origin  |                          | actimat  | red:  ) or Boring Location   |              |        |          | Fee            | t                   | Local G      | rid Loca                | Feet                | t MSL          |                  | 2             | inches           |
| State P            | lane   | ' Ш (                    | esumat   | N. E S   | /C□/N□       | Lat    |          |                |                     | Local C      | iriu Loca               |                     | N              |                  |               | □E               |
| Facility I         | 1/4 of .   |                          | 1/4 of   | Section,TN,R   | X E   W      |        |          | Ct. :I T.      |                     |              | Fe                      | et 🗆                | s <u></u>      |                  |               | Feet W           |
| racility           | D  |                          | Col      | unty Marathon  | County Code  | 2      | _        |                | n/City/o<br>Vausa   | -            | 2                       |                     |                |                  |               |                  |
| Sam                | ple  |                          |          |  |              |        |          |                |                     |              |                         | Soil P              | rope           | rties            |               |                  |
| oer<br>ype         | Aund Description  Soil/Rock Description  And Geologic Origin Feath Major Unit  Each Major Unit |                          |          |  |              |        |          | nic            | am                  | ₽            | Compressive<br>Strength | :ure<br>ent         | p              | Ç                | 0             | RQD/<br>Comments |
| Number<br>and Type | Blow C Blow C Blow C Blow C  |                          |          |  |              |        | USCS     | Graphic<br>Log | Well<br>Diagram     | PID/FID      | Com                     | Moisture<br>Content | Liqui<br>Limit | Plastic<br>Limit | P 200         | RQD,<br>Comi     |
| 1                  | 1.8′   |                          | 0        | 0-4/<br>0-1.0': Medium sand, trace fine to o                             | coarse sand  | 4      |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | -        | trace foundry sand, dark gray, wet.                                      | •            |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | -        | 1.0-3.0': Fine to medium sand, trace trace to some gravel, subangular, r |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          | moderately dense, brown.<br>3.0-4.0': Fine to medium sand, trace         | e to some s  | silt,  |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | -4       | trace clay, trace gravel, subangular                                     | , moist to v | vet.   |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | -        | EOB @4'  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | <u> </u> |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | <u> </u> |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | -        |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | <u> </u> |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | 8        |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | -        |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
| _ 10               |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | <u> </u> |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          |          |  |              |        |          |                |                     |              |                         |                     |                |                  |               |                  |
|                    |  |                          | _12      |  |              | _      |          |                |                     |              |                         |                     |                |                  |               |                  |
| I hereb            |  | that th                  | e infor  | mation on this form is true and corr                                     |              | best o |          | nowled         | dge.                |              |                         |                     |                |                  |               |                  |
|                    |  | Le                       | 6        | Leilen   |              | 126 N  | N. Jef   | ferson         | St., Sui<br>414) 27 | te<br>76-774 | .7                      |                     |                |                  |               |                  |

|                     |   |                          | <u> </u> | Route to: Watershed/Wastewater Remediation/Redevelopme |           |                  |          | ement [            | ]                   |              |                         |        |                 |                  |      |                  |
|---------------------|---|--------------------------|----------|--|-----------|------------------|----------|--------------------|---------------------|--------------|-------------------------|--------|-----------------|------------------|------|------------------|
|                     |   |                          |          |  |           |                  |          |                    |                     |              |                         |        | ı               | Page _           | 1    | of <u>1</u>      |
| Facility/           | Project N   | <sub>lame</sub><br>Vausa |          |  |           | Licens           | se/Peri  | mit/Mon            | itoring N           | lumber       |                         | В      | _               | lumber           |      |                  |
| Boring [            |   |                          |          | chief (first, last) and Firm                           |           | Date (           | Drilling | Started            | 1                   | Date [       | Orilling C              | Comple |                 | B-02<br>Drilling |      | hod              |
| First Na            | me Tr   | avis                     |          | Last Name  |           |                  | _        | 2/21               |                     |              | 1/12/                   |        |                 | Dire             | ct P | ush              |
|                     | ieiss S<br>Jue Well I   |                          |          | mples, LLC  DNR Well ID No.   Well Name                |           |                  |          | Water Le           | avol .              |              | e Elevati               |        |                 | Tecl             |      | ogy<br>ameter    |
|                     |   |                          |          |  |           | Fillal           | Static   | Fee                |                     | Suriac       | e cievati               |        | t MSL           | boren            |      | inches           |
| Local Gr<br>State P | id Origir<br>lane   |                          | estimat  | ted:  ) or Boring Location  E S / E                    | c□/N□     | l Lat            |          |                    |                     | Local G      | irid Loca               | tion   | N               |                  |      | □E               |
|                     |   |                          |          | Section,T N,R  | X E W     | Long             |          |                    |                     |              | Fe                      | eet 🔲  |                 |                  |      | Feet $\square$ W |
| Facility I          |   |                          | Co       | unty Co  | ounty Cod |                  |          |                    | n/City/o            | _            |                         |        |                 |                  |      |                  |
| Sam                 | nlo   |                          | $\vdash$ | Marathon   | 37        |                  | _        | V                  | Vausa               | u<br>I       |                         | Soil   | rope            | rtios            |      |                  |
| Salli               |   |                          |          |  |           |                  |          |                    |                     |              |                         | 3011 F | Торе            | ties             |      |                  |
| 41                  | ıll. &<br>ed (in  | ınts                     | Feet     | Soil/Rock Description<br>And Geologic Origin For       | ,         |                  |          |                    |                     |              | ssive                   | d)     |                 |                  |      | nts              |
| nber<br>Type        | d Type d Type ngth A covere  ow Coi   |                          |          | Each Major Unit  |           |                  | S        | Graphic<br>Log     | Well<br>Diagram     | PID/FID      | Compressive<br>Strength | stur   | Liquid<br>Limit | Plastic<br>Limit | 200  | RQD/<br>Comments |
| Nur                 | Len<br>Rec  | Blo                      |          |  |           |                  | USCS     | Gra<br>Log         | Wel                 | 8            | Cor                     | δΩ     | pi ii           | Pla:<br>Lim      | P 2  | RQD/<br>Comn     |
| 1                   | Number and Type and Type and Type Blow Co.  Blow Co.  Back Major Unit  Co. 0-4/ |                          |          |  |           |                  |          |                    |                     |              |                         |        |                 |                  |      |                  |
| I hereb             |   | that th                  | e infor  | mation on this form is true and corre                  | ct to the |                  |          | nowled             | dge.                |              | -                       | -      | •               |                  |      |                  |
| Jigi iatui          | De  | Lac                      | 6        | Latrem   |           | ARCA<br>126 Milw | N. Jef   | ferson<br>e, WI (4 | St., Sui<br>414) 27 | te<br>'6-774 | .2                      |        |                 |                  |      |                  |

| ·             |   |                   | <u> </u> | Route to: Watershed/Wastewater Remediation/Redevelopment  |           | ste Mana<br>er 🔲 _ |                 |           |           |                         |        |                 |                  |                   |                   |
|---------------|---|-------------------|----------|---|-----------|--------------------|-----------------|-----------|-----------|-------------------------|--------|-----------------|------------------|-------------------|-------------------|
|               |   |                   |          |   |           |                    |                 |           |           |                         |        | 1               | Page _           | 1                 | of 1              |
| Facility/F    |   |                   |          |   | Li        | cense/Pe           | rmit/Mo         | nitoring  | Numbe     | r                       | В      | oring N         | lumbei           | r                 |                   |
| Boring D      |   | Vausa<br>: Name o |          | chief (first, last) and Firm                              | Di        | ate Drilliı        | ng Starte       | d         | Date      | Drilling (              | omple  |                 | B-04<br>Drilling |                   | hod               |
| First Nar     | me Tr   | avis              |          | Last Name   |           |                    | ' <b>12/2</b> 1 |           |           | 1/12/                   |        |                 | Dire             | ect P             | ush               |
|               |   |                   |          | mples, LLC DNR Well ID No.   Well Name                    |           |                    |                 |           |           |                         |        |                 |                  | hnol              |                   |
| WI Uniqu      | ue well i   | NO.               |          | Well Name   |           | inal Stat          | c Water<br>Fe   |           | Surfac    | e Elevati               |        | t MSL           |                  | ole D<br><b>2</b> | iameter<br>inches |
| Local Gri     | d Origin  | ı 🔲 (             | estimat  | red:  |           |                    |                 |           | Local 0   | Grid Loca               | tion   |                 |                  |                   |                   |
|               |   |                   |          |   | F         | ong                |                 |           |           | г.                      | eet 🗆  |                 |                  |                   | □ E<br>Feet □ W   |
| Facility II   |   |                   | Co.      | Section ,T N,R<br>unty Cour                               | <u> </u>  | <u> </u>           | Civil To        | wn/City/o | or Villag |                         | eet 🗀  | <u> </u>        |                  |                   | reet 🗀 w          |
|               |   |                   | Щ.       | Marathon  | 37        |                    | <u> </u>        | Wausa     | au        |                         |        |                 |                  |                   |                   |
| Samı          |   |                   |          |   |           |                    |                 |           |           |                         | Soil F | rope<br>I       | rties            |                   |                   |
|               | . &<br>I (in)   | ıts               | eet      | Soil/Rock Description                                     |           |                    |                 |           |           | Compressive<br>Strength |        |                 |                  |                   | ts                |
| oer<br>ype    | And Geologic Origin Fo  |                   |          |   |           |                    | ١               | E E       | ₽         | pres                    | ture   | <br>            | .i.              | 0                 | /<br>men          |
| Numl<br>and T | Number and Type and Type Pecovered (in) Soil/Rock Description And Geologic Origin For Each Major Unit |                   |          |   |           | USCS               | Graphic<br>Log  | Well      | PID/FID   | Com                     | Mois   | Liquid<br>Limit | Plastic<br>Limit | P 200             | RQD/<br>Comments  |
|               | 1.7′  |                   | 0        | 0-4/  |           |                    |                 |           |           | 0 07                    |        |                 |                  |                   |                   |
| 1             | 1./   |                   |          | 0-0.6' Fine to coarse sand, some fine graph brown, moist. | ravel,    |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | L        | 0.6-2.0': Silt, trace to some fine sand, v                | ery dark  |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | L        | brown, dry.<br>2.0-4.0' Fine to medium sand, some co      | arse sand | .                  |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | F        | some gravel, subangular, dry, strong b                    |           | ·                  |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | -4       |   |           | _                  | -               |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | F        | EOB @4'   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | r        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | _        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | _<br>_ 6 |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | L        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | L        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | L        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | l-       |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | _ 8      |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | <u> </u> |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | _        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   |          |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   |          |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   |          |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   |          |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | F        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
|               |   |                   | F        |   |           |                    |                 |           |           |                         |        |                 |                  |                   |                   |
| Lla a . I     |   | 41                | _12      |   | 4 - 41. 1 |                    |                 |           |           |                         |        |                 |                  |                   |                   |
| Signature     |   | -                 |          | mation on this form is true and correct                   | Firm Al   | RCADIS             | <del>,</del>    |           |           |                         |        |                 |                  |                   |                   |
|               |   | Le                | 6        |   | I 13      | 26 N J             | ffarcar         | ո St., Su | ite       |                         |        |                 |                  |                   |                   |

| o opar ii.  |                   | a cararri                | <u>]</u>          | Route to: Watershed/Wastewater Remediation/Redevelop  |             |                |          | ement [           | ]                                |              |                         |                     |                 |                  |               |                   |
|---|-------------------|--------------------------|-------------------|---|-------------|----------------|----------|-------------------|----------------------------------|--------------|-------------------------|---------------------|-----------------|------------------|---------------|-------------------|
|   |                   |                          |                   |   |             | 1              |          |                   |                                  |              |                         |                     |                 |                  |               | of1_              |
| Facility/   | Project N<br>3M V | <sub>lame</sub><br>Vausa | ıU                |   |             | Licens         | se/Peri  | mit/Mon           | itoring N                        | lumber       |                         | B                   |                 | lumbei<br>B-04   |               |                   |
| Boring [  |                   |                          |                   | chief (first, last) and Firm  |             | Date (         | Drilling | Started           |                                  | Date [       | Orilling C              | omple               |                 | Drilling         |               | hod               |
|   | <sub>me</sub> Tr  |                          | ıd Saı            | Last Name<br>mples, LLC   |             |                | 11/1     | 2/21              |                                  | 1            | 1/12/                   | 21                  |                 |                  | ect P<br>hnol |                   |
| WI Unic   | μe Well I         | No.                      |                   | DNR Well ID No. Well Name   | 1           | Final          | Static   | Water Le          |                                  | Surfac       | e Elevati               |                     | t MSL           |                  | ole D         | iameter<br>inches |
| Local Gr<br>State P   | id Origin<br>lane |                          | estimat           | ted:  ) or Boring Location E S  |             | Lat            | :        | - / cc            |                                  | Local G      | irid Loca               | tion                |                 |                  |               | □ E               |
|   | 1/4 of            |                          | 1/4 of            | f Section ,T N,R<br>unty  | X E<br>□ W  | Long           |          |                   |                                  |              |                         | et 🗆                | s <u></u>       |                  |               | Feet 🔲 W          |
| Facility  | ID                |                          | Co                | unty<br>Marathon  | County Cod  | e              | ľ        |                   | n/City/o<br><b>Vausa</b>         |              | 5                       |                     |                 |                  |               |                   |
| Sam   | ple               |                          | Γ                 |   |             |                |          |                   |                                  |              |                         | Soil F              | rope            | rties            |               |                   |
| Number and Type Pecon |                   |                          |                   |   |             |                | USCS     | Graphic<br>Log    | Well<br>Diagram                  | PID/FID      | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plastic<br>Limit | P 200         | RQD/<br>Comments  |
| 1 hereb   | 1.9'              | that th                  | 0 4 10 12 e infor | 0-4/ 0-2.5': Fine to coarse sand, trace to gravel, subangular, moist, very da 2" layer fine sand, white at 2.0'. 2.5-4.0': Fine to medium sand, trace some gravel, subangular, moist to moderately well sorted, strong by EOB @4' | ark brown/b | olack;<br>and, |          | (nowled           | dge.                             |              |                         |                     |                 |                  |               |                   |
| Signatu   |                   |                          |                   |   | Firm        | ARCA           | ADIS     |                   |                                  |              |                         |                     |                 |                  |               |                   |
|   | De                | Lac                      | 6                 | Lutrem  |             | 126 N          | N. Jef   | ferson<br>e, WI(4 | St., Sui <sup>.</sup><br>414) 27 | te<br>'6-774 | -2                      |                     |                 |                  |               |                   |

|   |                 |                          | <u>F</u>   | Route to: Watershed/Wastewater Remediation/Redevelop  |   |        |          | ement [        | ]               |         |                         |                     |                 |                  |               |                   |
|---|-----------------|--------------------------|--|---|---|--------|----------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|------------------|---------------|-------------------|
|   |                 |                          |  |   |   |        |          |                |                 |         |                         |                     |                 |                  |               | of <u>1</u>       |
| Facility/F  |                 | <sub>lame</sub><br>Vausa | П  |   |   | Licens | se/Peri  | mit/Mon        | itoring N       | lumber  | •                       | В                   | _               | lumbei<br>B-04   |               |                   |
| Boring D  |                 |                          |  | chief (first, last) and Firm  |   | Date [ | Orilling | Started        |                 | Date (  | Orilling C              | l<br>Comple         |                 | Drilling         |               | hod               |
|   | eiss S          | oil an                   |  | Last Name<br><b>mples, LLC</b>  |   |        |          | 2/21           |                 | 1       | 1/12/                   | 21                  |                 |                  | ect P<br>hnol |                   |
| WI Uniqu  | ue Well I       | No.                      |  | DNR Well ID No. Well Name   | è   | Final  | Static   | Water Le       |                 | Surfac  | e Elevati               |                     | t MSL           |                  | ole D<br>2    | iameter<br>inches |
| Local Gri<br>State Pla  | d Origin<br>ane | n 🔲 (                    | estimat  | ted:  ) or Boring Location  E S[  | /C□/N□  | Lat    |          |                |                 | Local G | irid Loca               |                     |                 |                  |               | □ E               |
|   |                 |                          | 1/4 of   | Section,T N,R   | X E W   |        |          |                |                 |         |                         | eet 🗆               | s <u></u>       |                  |               | Feet $\square$ W  |
| Facility II   | D               |                          | Coi  | <sub>unty</sub><br>Marathon   | County Cod  | le     | _        |                | n/City/o        | _       | 2                       |                     |                 |                  |               |                   |
| Samı  | ole             |                          |  |   | •   |        |          |                |                 |         |                         | Soil F              | rope            | rties            |               |                   |
| Number and Type Blow Counts Blow Counts Each Major Unit Each Major Unit |                 |                          |  |   |   |        | USCS     | Graphic<br>Log | Well<br>Diagram | PID/FID | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plastic<br>Limit | P 200         | RQD/<br>Comments  |
|   |                 | that th                  | 0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0-4/ 0-1.5': Medium to coarse sand, tr sand, trace gravel, subangular, m 1.5-2.0': Silt, trace fine sand, mois 2.0-2.5': Silt, trace to some fine sa brown. 2.5-4.0': Fine to coarse sand, som angular, moderately dense to loo brown.  EOB @4' | oist, dark br it, dark gray. ind, moist, e gravel, sub se, moist, | best o |          | knowlec        | dge.            |         |                         |                     |                 |                  |               |                   |
| Signatur  | e               | .1                       |  | 7   | Firm  | ARCA   | DIS      | •              | C+ Cui          |         |                         |                     |                 |                  |               |                   |

Milwaukee, WI (414) 276-7742

| State of Wisconsin<br>Department of Natural Resource   | es  |   |                |            |                |                 |           |                         |                     | 0-122           | Log                       | IIIIC             | Rev. 7-98        |  |  |
|--|---|---|----------------|------------|----------------|-----------------|-----------|-------------------------|---------------------|-----------------|---------------------------|-------------------|------------------|--|--|
|  |   | Wastewater  <br>n/Redevelopm                    |                | Manage     | ement [        | ]               |           |                         |                     |                 |                           |                   |                  |  |  |
|  |   |   |                |            |                |                 |           |                         |                     | F               | Page _                    | 1                 | of <u>1</u>      |  |  |
| Facility/Project Name 3M Wausau  |   |   | Lice           | nse/Per    | mit/Mon        | itoring N       | Number    |                         | В                   | -               | lumber<br>B-04            |                   |                  |  |  |
| Boring Drilled By: Name of crew  |   |   | Dat            | e Drilling | Started        | 1               | Date D    | Orilling C              | omple               | ted             | Drilling Method           |                   |                  |  |  |
| First Name Travis Firm Geiss Soil and Sa   | Last Name   |   |                | 11/1       | 2/21           | 11/12/21        |           |                         |                     |                 | Direct Push<br>Technology |                   |                  |  |  |
| WI Unique Well No.   | DNR Well ID No.   | Well Name                                       | Fir            | al Static  | Water Le       | evel            | Surface   | e Elevati               |                     |                 |                           | Borehole Diameter |                  |  |  |
| Local Grid Origin  | tad: 🗖 ) or Paring Location   |   |                |            | Fee            | et              | Local G   | rid Loca                | Fee                 | t MSL           |                           | <u></u>           | inches           |  |  |
| Local Grid Origin (estima State Plane  |   |   | □□□□           |            |                |                 |           |                         |                     |                 |                           |                   | □ E              |  |  |
| 1/4 of | f Section ,T<br>ounty   | N,R   |                | ng         | Civil Tow      | n/City/o        | r Village | F6                      | et 🗀                | <u>S</u> _      |                           | Feet 🗆 w          |                  |  |  |
| ,  | Marathon  |   | 37             |            |                | Vausa           | _         |                         |                     |                 |                           |                   |                  |  |  |
| Sample   |   |   |                |            |                |                 |           |                         | Soil F              | rope            | rties                     |                   |                  |  |  |
| Number<br>and Type<br>Length All. &<br>Recovered (in)<br>Blow Counts   | And Geo   | ck Description<br>ologic Origin Fo<br>ajor Unit | or             | USCS       | Graphic<br>Log | Well<br>Diagram | PID/FID   | Compressive<br>Strength | Aoisture<br>Content | Liquid<br>Limit | Plastic<br>Limit          | P 200             | RQD/<br>Comments |  |  |
| 1 1.2'   | 0-4/ 0-1.0' Fine to coarse sa dark brown, moist. 1.0-4.0': Fine to mediu some gravel, subangu dense, strong brown.  EOB @4' | ım sand, som                                    | e coarse sand, |            |                |                 |           |                         |                     |                 |                           |                   |                  |  |  |

Firm

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

| ·                  |                                 |                    | <u> </u>                  | Route to: Watershed/Wastewater Remediation/Redevelopm  |                                   |   |          | ement [        | ]               |           |                         |                     |                 |                            |       |                  |  |  |
|--------------------|---------------------------------|--------------------|---------------------------|--|-----------------------------------|---|----------|----------------|-----------------|-----------|-------------------------|---------------------|-----------------|----------------------------|-------|------------------|--|--|
|                    |                                 |                    |                           |  |                                   |   |          |                |                 |           |                         |                     | F               | Page _                     | 1     | of 1             |  |  |
| Facility/          | Project N                       |                    |                           |  |                                   | License/Permit/Monitoring Number                            |          |                |                 |           |                         |                     | Boring Number   |                            |       |                  |  |  |
| Borina (           |                                 | Vausa<br>:: Name ( |                           | chief (first, last) and Firm   |                                   | Date [  | Orilling | Started        | 1               | Date [    | Orilling C              | omple               |                 | B-05<br>Drilling           |       | hod              |  |  |
| First Na           | <sub>ime</sub> Tr               | avis               |                           | Last Name  |                                   |   |          | 2/21           |                 |           | 1/12/                   |                     |                 | Direct Push                |       |                  |  |  |
|                    |                                 |                    |                           | mples, LLC  DNR Well ID No.   Well Name  |                                   |   |          |                |                 |           |                         |                     |                 | Technology                 |       |                  |  |  |
| WIUnic             | que Well                        | NO.                |                           | DNR Well ID No.   Well Name  |                                   | Final   | Static   | Water Le       |                 | Surfac    | e Elevati               |                     | t MSL           | Borehole Diameter 2 inches |       |                  |  |  |
| Local G            | rid Origir                      | n 🔲 (              | estimat                   | ted:   |                                   |   |          |                |                 | Local G   | irid Loca               | tion                |                 |                            |       |                  |  |  |
| State P            |                                 |                    |                           |  | /CLJ/NLJ<br> X] E<br> LJ W        | Lat   |          |                |                 |           | Га                      | et 🗆                |                 | □E<br>Feet □ v             |       |                  |  |  |
| Facility           |                                 |                    | _ 1/4 01<br>Co            | Section,TN,R<br>unty C   | County Code                       | Long<br>e   |          | Civil Tow      | n/City/o        | r Village |                         | et 🗀                | <u> </u>        |                            |       | reet 🗀 w         |  |  |
|                    |                                 |                    |                           | Marathon .   | 37                                |   | _        | V              | Vausa           | u         |                         |                     |                 |                            |       |                  |  |  |
| Sam                |                                 |                    |                           |  |                                   |   |          |                |                 |           |                         | Soil F              | ropei           | rties                      |       |                  |  |  |
| Number<br>and Type | Length All. &<br>Recovered (in) | Blow Counts        | Depth in Feet             | Soil/Rock Description<br>And Geologic Origin Fo<br>Each Major Unit   | or                                |   | USCS     | Graphic<br>Log | Well<br>Diagram | PID/FID   | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plastic<br>Limit           | P 200 | RQD/<br>Comments |  |  |
| 1 hereb            | 2.0                             | that th            | - 4 - 4 6 8 10 12 e infor | 0-4/ 0-0.5': Topsoil. 0.5-2.5' Fine to coarse sand, poorly foundry sand, trace silt, loose, moi very dark brown to black. 2.5-4.0' Silt, some fine to medium s slag, trace gravel, subangular, dry, l  EOB @4' | ist,<br>sand, trace<br>light brow | n.  | of my l  | nowle          | dae             |           |                         |                     |                 |                            |       |                  |  |  |
| I hereb<br>Signatu | ro                              |                    |                           | mation on this form is true and corr   | rect to the<br>Firm               | ARCA  | ADIS     |                |                 |           |                         |                     |                 |                            |       |                  |  |  |
| Signature Ruleum   |                                 |                    |                           |  |                                   | 126 N. Jefferson St., Suite<br>Milwaukee, WI (414) 276-7742 |          |                |                 |           |                         |                     |                 |                            |       |                  |  |  |

| Department of Natural Resourc   | ces                                |   |   |                                |         |                |                 |         | Foi                     | m 440               | 0-122                 | 5                           |          |        | v. 7-98  |  |
|---|------------------------------------|---|---|--------------------------------|---------|----------------|-----------------|---------|-------------------------|---------------------|-----------------------|-----------------------------|----------|--------|----------|--|
|   | Route to: Watershed/W              |   |   |                                |         | ement [        |                 |         |                         |                     |                       |                             |          |        |          |  |
|   | Remediation                        | /Redevelop                                  | ment 📙 C                                  | ther [                         |         |                |                 |         |                         |                     |                       |                             |          |        |          |  |
|   |                                    |   |   |                                |         |                |                 |         |                         |                     |                       | Page _                      |          | _ of _ | <u>1</u> |  |
| Facility/Project Name 3M Wausau   |                                    |   |   | License/Permit/Monitoring Numb |         |                |                 |         |                         |                     | S                     | lumber<br>B-05              | В        |        |          |  |
| Boring Drilled By: Name of crev   |                                    |   |   | Date D                         | rilling | Started        |                 | Date [  | Orilling C              | omple               | ted                   | Drilling Method Direct Push |          |        |          |  |
| First Name Travis Firm Geiss Soil and Sa  | Last Name<br>amples, LLC           |   |   |                                |         | 2/21           |                 |         | 1/12/                   |                     |                       | Tecl                        | nnol     | ogy    |          |  |
| WI Unique Well No.  | DNR Well ID No.                    | Well Name                                   |   |                                |         | Water Le       | t l             |         | e Elevati               | Fee                 | Borehole Diamet 2 inc |                             |          |        |          |  |
| Local Grid Origin (estimates Plane (estimates)  | ated:  ) or Boring Location N,     | E S[  | ]/C□/N□<br>  <b>V</b>   F                 | Lat .                          |         |                |                 | Local G | irid Loca               |                     |                       |                             |          | [      | ΞE       |  |
| 1/4 of 1/4 of   | of Section,T                       | N,R   | X E W                                     | Long                           |         |                |                 |         | Fe                      | et 🗆                | S _                   |                             | Feet 🗆 W |        |          |  |
| Facility ID C   | ounty<br>Marathon                  |   | County Code                               | e<br>                          |         |                | n/City/oi       |         |                         |                     |                       |                             |          |        |          |  |
| Sample  |                                    |   |   |                                |         |                |                 |         |                         | Soil F              | ropei                 | rties                       |          |        |          |  |
| Number<br>and Type<br>Length All. &<br>Recovered (in)<br>Blow Counts<br>Depth in Feet | Soil/Rock<br>And Geol<br>Each Majo | Description<br>ogic Origin<br>or Unit       |   |                                | USCS    | Graphic<br>Log | Well<br>Diagram | PID/FID | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit       | Plastic<br>Limit            | P 200    | ROD/   | Comments |  |
| 1 1.9'  |                                    | ist, loose, t<br>m sand, tra<br>vel, subang | race foundr<br>ce to some<br>gular, brown | y<br>silt,                     |         |                |                 |         |                         |                     |                       |                             |          |        |          |  |

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Signature

| Departn            | nent of N                                     | atural Re   | esource        | s   |                         |              |   |          |                |                 |         |                         | rm 440              |                 | LOG              | 11110               | Rev. 7-98        |  |
|--------------------|---|-------------|----------------|---|-------------------------|--------------|---|----------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|------------------|---------------------|------------------|--|
|                    |   |             | <u>F</u>       | Route to: Watershed/V                         |                         |              |   |          | ement [        |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                | Remediation                                   | /Redevelop              | ment 🗀 🤇     | Other   |          |                |                 |         |                         |                     |                 |                  | 1                   | 1                |  |
| Facility           | /Project N                                    | Jame        |                |   |                         |              | Licen   | se/Peri  | mit/Mon        | lumber          |         | I R                     |                     |                 |                  | of <u>1</u>         |                  |  |
| racinty,           |   | Vausa       | ıu             |   |                         |              | License/Permit/Monitoring Number  Boring Number  SB-050 |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
| _                  |   |             | of crew        | chief (first, last) and Firm                  |                         |              | Date  | Drilling | Started        | l               | Date [  | Orilling C              | omple               | ted             | Drilling         |                     |                  |  |
| First Na           | <sub>ame</sub> Tr                             | avis        | -I C -         | Last Name                                     |                         |              |   | 11/1     | 2/21           |                 | 1       | 1/12/                   | 21                  |                 |                  | ect Push<br>hnology |                  |  |
| WI Unio            | gue Well                                      | No.         | <u>10 Sai</u>  | mples, LLC DNR Well ID No.                    | Well Name               | <u> </u>     | Final   | Static   | Water Le       | evel            | Surface | e Elevati               | on                  |                 |                  |                     | ameter           |  |
|                    |   |             |                |   |                         |              |   |          | Fee            |                 |         |                         | Feet MSL 2 inch     |                 |                  |                     |                  |  |
| Local G<br>State P | rid Origir<br>Plane                           | n 🔲 (       | estimat        | red: 🔲 ) or Boring Locatio<br>N,              | n 🔲<br>E S[             | /C□/N□       | l Lat   |          |                |                 | Local G | rid Loca                | tion                | N               |                  |                     | □E               |  |
|                    |   |             |                | Section ,T                                    |                         | X            | Long  |          |                |                 |         | Fe                      | eet 🔲               |                 |                  |                     | Feet $\square$ W |  |
| Facility           |   |             |                | unty  |                         | County Cod   |   |          |                | n/City/o        |         |                         |                     | <del>-</del>    |                  | _                   | - CCC - W        |  |
|                    |   |             | $\perp$        | Marathon                                      |                         | 37           |   |          | V              | <u>Vausa</u>    | u       |                         |                     |                 |                  |                     |                  |  |
| San                | nple<br>I                                     |             |                |   |                         |              |   |          |                |                 |         |                         | Soil F              | ropei           | rties            |                     |                  |  |
|                    | Length All. &<br>Recovered (in)               | ıts         | eet            |   | Description             |              |   |          |                |                 |         | Compressive<br>Strength |                     |                 |                  |                     | ts               |  |
| oer<br>ype         | th All  | Cour        | l in F         | Each Maj                                      | logic Origin<br>or Unit | For          |   |          | jic            | am              | ₽       | ores:<br>gth            | ture                | ъ               | .ບ .             | 0                   | RQD/<br>Comments |  |
| Number<br>and Type | -engi   | Blow Counts | Depth in Feet  |   |                         |              |   | USCS     | Graphic<br>Log | Well<br>Diagram | PID/FID | Com                     | Moisture<br>Content | Liquid<br>Limit | Plastic<br>Limit | P 200               | QD/<br>Comi      |  |
|                    |   |             | 0              | 0-4/  |                         |              |   |          |                |                 |         | 0 01                    |                     |                 |                  |                     |                  |  |
| 1                  | 2.3′  |             |                | 0-0.5': Topsoil.<br>0.5-2.5' Fine to coarse s | and noor                | v corted tra | co to   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                | some gravel, subangul                         |                         |              | ice to  |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    | foundry sand, very dark brown to black, trac  |             |                |   |                         | black, trace | ē   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | L              | silt.<br>2.5-4.0': Fine to mediu              | m sand, m               | oderately w  | ell   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    | _ sorted, trace coarse sand, trace to some gi |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | <del> </del> 4 | subangular, moist.                            |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              | EOB @4'                                       |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | <del>-</del> 6 |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | _8             |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | -              |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
| -10                |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             |                |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |
|                    |   |             | _12            |   |                         |              |   |          |                |                 |         |                         |                     |                 |                  |                     |                  |  |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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| Facility   Project Name   Salt   Sa   |                     |                   |         | <u> </u>                                 | Route to: Watershed/Wastewater Remediation/Redevelopmen  |  |                                  |          | ement [    | ]                   |              |            |            |               |             |    |           |  |  |
|--|---------------------|-------------------|---------|--|--|--|----------------------------------|----------|------------|---------------------|--------------|------------|------------|---------------|-------------|----|-----------|--|--|
| SM Wausau  Bonig Drilled By Name of crew chief (first, last) and Firm  First Tavis  Last Name First Soll and Samples, LLC  Well Name First State Name N  State Name  Value  Wall Name First State Name N  Soll Rock Description And Geologic Origin For Each Major Unit  Soll Rock Description And Geologic Origin For Each Major Unit  Soll Properties  First State Name  First State Name  First State Name Wausau  Soll Properties  First State Name First Stat |                     |                   |         |  |  |  |                                  |          |            |                     |              |            |            | F             | Page _      | 1  | of 1      |  |  |
| Boring Dilled By Name of crew chief (first, last) and firm First Name Tray's Last Name First Name Tray's List Name First Name Tray's Local Grid Ongin Cestimated:    ORTH Well ID No.   Well Name   Final Static Water Level   | Facility/           | -                 |         |  |  |  | License/Permit/Monitoring Number |          |            |                     |              |            |            | Boring Number |             |    |           |  |  |
| First Name Travis Last Name From Geiss Soil and Samples, LLC  Well Industry Will Industry William Will Industry William William William William William William Will Industry William Willia | Boring [            |                   |         |  | chief (first, last) and Firm   |  | Date [                           | Orilling | Started    | I                   | Date [       | Orillina C | omple      |               |             |    | hod       |  |  |
| Firm Age   Soli   And Samples, LLC   Well Name   Final Static Water Level   Surface Elevation   Borehole Diameter   Solid Grid Origin   Gettimated   1 / 4 of   1 /   | First Na            | <sub>ime</sub> Tr | avis    |  | Last Name  |  |                                  |          |            |                     |              |            |            |               | Direct Push |    |           |  |  |
| Local Grid Origin       (estimated:     ) or Boring Location   |                     |                   |         |  | mples, LLC   |  |                                  |          |            | nuol .              |              |            |            |               |             |    |           |  |  |
| Local Grid Location  | WIOIIIC             | lue Well          | NO.     |  | Well Name  |  | - FIIIdi                         | Static   |            |                     | Surrac       | e Elevati  |            | t MSL         | 1 2         |    |           |  |  |
| Tacility ID  | Local Gr<br>State P | id Origir<br>Iane |         | estimat                                  | ted: ( ) or Boring Location ( ) F S ( ) / C  | -П/иПі                                   | Lat                              |          |            |                     | Local G      | irid Loca  | tion       |               |             |    |           |  |  |
| County Code   Sample   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Muljor Unit   Soil/Rock Description   Soil/Rock    | June .              |                   |         |  |  | X E                                      |                                  |          |            |                     |              | Fe         |            |               |             |    |           |  |  |
| Sample    Soil/Rock Description   Soil/Rock Descriptio | Facility            |                   |         | Col                                      | unty   | unty Code                                |                                  |          |            |                     | _            |            |            |               |             | _  |           |  |  |
| Soil/Rock Description And Geologic Origin For Each Major Unit  2.5'  2.5'  0.0-4/ 0.8': Asphalt. 8'-1.0': Fine to coarse sand, silt, brick, brown. 1.0-2.0': Fine to ocarse sand, silt, trace green shingle granules, trace clay mois shock. 2.0-4.0': Fine to medium sand, some coarse sand, trace to some gravel, subangular, moist, brown, poorly sorted.  EOB @4'  Ihereby certify that the information on this form is true and correct to the best of my knowledge.  Fine ARCADIS Signature  Fin | Carre               | مامد              |         | $\perp$                                  | Marathon   | 37                                       |                                  | _        | V          | Vausa               | u<br>I       |            | Soil E     | ropo          | rtios       |    |           |  |  |
| 1 2.5'   | Sam                 | <u> </u>          |         |  |  |  |                                  |          |            |                     |              |            | 3011 F     | тореі         | ties        |    |           |  |  |
| 1 2.5'   |                     | II. &<br>d (in    | ınts    | Feet                                     |  |  |                                  |          |            |                     |              | ssive      |            |               |             |    | nts       |  |  |
| 1 2.5'   | nber<br>Type        | gth A<br>overe    | v Cou   | ţ.                                       |  |  |                                  | S        | ohic       | l<br>gram           | /FID         | npre       | sture      | uid<br>it     | itic<br>it  | 00 | )/<br>nme |  |  |
| 1  | Nur                 | Len<br>Rec        | Blov    |  |  |  |                                  | OSO      | Gra<br>Log | Wel<br>Dia          | PID          | Con        | Moi<br>Con | Liq.<br>Lim   | Plas<br>Lim |    | Z Z       |  |  |
| Signature Firm ARCADIS 126 N. Jefferson St., Suite   |                     |                   |         | - 4<br>- 4<br>- 6<br>- 8<br>- 10<br>- 10 | 0-8": Asphalt. 8"-1.0': Fine to coarse sand, silt, brick, 1.0-2.0': Fine to coarse sand, silt, trace shingle granules, trace clay, moist, bla 2.0-4.0': Fine to medium sand, some trace to some gravel, subangular, mo poorly sorted.  EOB @4' | e green<br>ack.<br>coarse s<br>ist, brow | and,                             |          |            |                     |              |            |            |               |             |    |           |  |  |
| 126 N. Jefferson St., Suite  |                     |                   | that th | e infor                                  | mation on this form is true and correc   | _  |                                  |          | nowle      | dge.                |              |            |            |               |             |    |           |  |  |
|  | Signatu             | re<br>\( \) x     | Le      | 6  | Zulen  |  | 126 N                            | N. Jef   | ferson     | St., Sui<br>414) 27 | te<br>'6-774 | .2         |            |               |             |    |           |  |  |

# **Appendix B**

**Abandonment Logs** 

## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: **Drinking Water** Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Facility Name County Hicap # Removed Well Facility ID (FID or PWS) Format Code Method Code Latitude / Longitude (see instructions) GPS008 DD License/Permit/Monitoring # SCR002 DDM OTH001 1/4 / 1/4 1/4 Original Well Owner Section Township Range or Gov't Lot # W Present Well Owner Well Street Address Mailing Address of Present Owner Wel City Village or Town Well ZIP Code City of Present Owner ZIP Code State Subdivision Name Lot # 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Yes No Liner(s) removed? Yes No N/A 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No N/A Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No N/A Water Well Casing left in place? N/A If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? N/A please attach. Construction Type: Did sealing material rise to surface? Yes No N/A No N/A Did material settle after 24 hours? Yes Drilled Driven (Sandpoint) Dug If yes, was hole retopped? Yes Νo N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: Yes with water from a known safe source? **Unconsolidated Formation Bedrock** Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials **Neat Cement Grout** Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? Yes No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Surface 6. Comments 7. Supervision of Work **DNR Use Only** Date Received Noted By Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification (mm/dd/yyyy) Street or Route Telephone Number Comments City State ZIP Code Signature of Person Doing Work Date Signed

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#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: **Drinking Water** Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Facility Name County Hicap # Removed Well Facility ID (FID or PWS) Format Code Method Code Latitude / Longitude (see instructions) GPS008 DD License/Permit/Monitoring # SCR002 DDM OTH001 1/4 / 1/4 1/4 Original Well Owner Section Township Range or Gov't Lot # W Present Well Owner Well Street Address Mailing Address of Present Owner Wel City Village or Town Well ZIP Code City of Present Owner ZIP Code State Subdivision Name Lot # 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Yes No Liner(s) removed? Yes No N/A 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No N/A Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No N/A Water Well Casing left in place? N/A If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? N/A please attach. Construction Type: Did sealing material rise to surface? Yes No N/A No N/A Did material settle after 24 hours? Yes Drilled Driven (Sandpoint) Dug If yes, was hole retopped? Yes Νo N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: Yes with water from a known safe source? Unconsolidated Formation **Bedrock** Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials **Neat Cement Grout** Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? Yes No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Surface 6. Comments 7. Supervision of Work **DNR Use Only** Date Received Noted By Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification (mm/dd/yyyy) Street or Route Telephone Number Comments City State ZIP Code Signature of Person Doing Work Date Signed

Kelu

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Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: **Drinking Water** Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Facility Name County Hicap # Removed Well Facility ID (FID or PWS) Format Code Method Code Latitude / Longitude (see instructions) GPS008 DD License/Permit/Monitoring # SCR002 DDM OTH001 1/4 / 1/4 1/4 Original Well Owner Section Township Range or Gov't Lot # W Present Well Owner Well Street Address Mailing Address of Present Owner Wel City Village or Town Well ZIP Code City of Present Owner ZIP Code State Subdivision Name Lot # 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Yes No Liner(s) removed? Yes No N/A 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No N/A Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No N/A Water Well Casing left in place? N/A If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? N/A please attach. Construction Type: Did sealing material rise to surface? Yes No N/A No N/A Did material settle after 24 hours? Yes Drilled Driven (Sandpoint) Dug If yes, was hole retopped? Yes Νo N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: Yes with water from a known safe source? Unconsolidated Formation **Bedrock** Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials **Neat Cement Grout** Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? Yes No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Surface 6. Comments 7. Supervision of Work **DNR Use Only** Date Received Noted By Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification (mm/dd/yyyy) Street or Route Telephone Number Comments City State ZIP Code Signature of Person Doing Work Date Signed

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#### Well / Drillhole / Borehole Filling & Sealing Report

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Dela

# **Appendix C**

**Laboratory Analytical Report** 

### **ANALYTICAL REPORT**

Eurofins TestAmerica, Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

Laboratory Job ID: 500-208432-1

Client Project/Site: 3M Wausau, WI 30087606.00001

For:

ARCADIS U.S., Inc. 126 North Jefferson Street Suite 400 Milwaukee, Wisconsin 53202

Attn: Trenna Seilheimer

Sanda Ireduik

Authorized for release by: 12/6/2021 12:29:11 PM

Sandie Fredrick, Project Manager II (920)261-1660

sandra.fredrick@eurofinset.com

.....LINKS .....

Review your project results through

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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#### **Case Narrative**

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Job ID: 500-208432-1

Job ID: 500-208432-1

Laboratory: Eurofins TestAmerica, Chicago

**Narrative** 

**Job Narrative** 500-208432-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/16/2021 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

| Client Sample ID: SB-04/ | A (0-2) |           |      |      |       | Lab Sample ID: 50               | 0-208432-1 |
|--------------------------|---------|-----------|------|------|-------|---------------------------------|------------|
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 3.8     |           | 1.0  | 0.35 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-04/ | A (2-4) |           |      |      |       | Lab Sample ID: 50               | 0-208432-2 |
| Analyte                  |         | Qualifier | RL   |      | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 0.73    | J         | 0.96 | 0.33 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-04I | D (0-2) |           |      |      |       | Lab Sample ID: 50               | 0-208432-3 |
| Analyte                  |         | Qualifier | RL   |      | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 0.77    | J         | 1.0  | 0.35 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-04I | D (2-4) |           |      |      |       | Lab Sample ID: 50               | 0-208432-4 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 0.39    | J         | 1.0  | 0.35 | mg/Kg | 1 ☆ 6010C                       | Total/NA   |
| Client Sample ID: SB-01/ | A (0-2) |           |      |      |       | Lab Sample ID: 50               | 0-208432-5 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 12      |           | 0.99 | 0.34 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-01/ | A (2-4) |           |      |      |       | Lab Sample ID: 50               | 0-208432-6 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 3.2     |           | 0.99 | 0.34 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-020 | C (0-2) |           |      |      |       | Lab Sample ID: 50               | 0-208432-7 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 3.2     |           | 0.97 | 0.33 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-020 | C (2-4) |           |      |      |       | Lab Sample ID: 50               | 0-208432-8 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 0.77    | J         | 0.99 | 0.34 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-02  | A (0-2) |           |      |      |       | Lab Sample ID: 50               | 0-208432-9 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 3.2     |           | 1.1  | 0.36 | mg/Kg | 1 🌣 6010C                       | Total/NA   |
| Client Sample ID: SB-02  | A (2-4) |           |      |      |       | Lab Sample ID: 500              | -208432-10 |
| No Detections.           |         |           |      |      |       |                                 |            |
| Client Sample ID: SB-02I | D (0-2) |           |      |      |       | Lab Sample ID: 500              | -208432-11 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 2.5     |           | 0.97 | 0.33 | mg/Kg | 1 ☆ 6010C                       | Total/NA   |
| Client Sample ID: SB-02I | D (2-4) |           |      |      |       | Lab Sample ID: 500              | -208432-12 |
| Analyte                  | Result  | Qualifier | RL   | MDL  | Unit  | Dil Fac D Method                | Prep Type  |
| Arsenic                  | 1.6     |           | 0.92 |      | mg/Kg | 1 $\stackrel{-}{\otimes}$ 6010C | Total/NA   |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

12/6/2021

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04C (0-2) Lab Sample ID: 500-208432-13 Result Qualifier **MDL** Unit Dil Fac D Method Analyte RL **Prep Type** 1 ☆ 6010C 0.95 0.32 mg/Kg Total/NA Arsenic 3.1 Client Sample ID: SB-04C (2-4) Lab Sample ID: 500-208432-14 Result Qualifier Analyte RI MDI Unit Dil Fac D Method **Prep Type** 6010C 0.99 1 ☆ Arsenic 3.7 0.34 mg/Kg Total/NA Client Sample ID: SB-04B (0-2) Lab Sample ID: 500-208432-15 Result Qualifier RL **MDL** Unit **Analyte** Dil Fac D Method **Prep Type** Arsenic 64 1.0 0.35 mg/Kg 1 ☆ 6010C Total/NA Client Sample ID: SB-04B (2-4) Lab Sample ID: 500-208432-16 Dil Fac D Method Analyte Result Qualifier RL MDL Unit **Prep Type** Arsenic 2.4 0.97 0.33 mg/Kg 1 ☆ 6010C Total/NA Client Sample ID: SB-05B (0-2) Lab Sample ID: 500-208432-17 Result Qualifier **MDL** Unit **Analyte** RL Dil Fac D Method **Prep Type** Arsenic 5.9 1.0 0.35 mg/Kg 6010C Total/NA Client Sample ID: SB-05B (2-4) Lab Sample ID: 500-208432-18 **Analyte** Result Qualifier RL MDL Unit Dil Fac D Method **Prep Type** Arsenic 9.2 1.3 0.44 mg/Kg ₩ 6010C Total/NA Client Sample ID: SB-05C (0-2) Lab Sample ID: 500-208432-19 Analyte Result Qualifier RL **MDL** Unit Dil Fac D Method **Prep Type** Arsenic 7.8 1.1 0.39 mg/Kg 1 ☆ 6010C Total/NA Client Sample ID: SB-05C (2-4) Lab Sample ID: 500-208432-20 Analyte Result Qualifier RL **MDL** Unit Dil Fac D Method **Prep Type** Arsenic 1.4 0.95 0.33 mg/Kg <u>1</u> ☆ 6010C Total/NA Client Sample ID: SB-05A (0-2) Lab Sample ID: 500-208432-21 Result Qualifier Analyte RL MDL Unit Dil Fac D Method **Prep Type** mg/Kg 1.0 6010C Total/NA Arsenic 6 1 0.34 Lab Sample ID: 500-208432-22 Client Sample ID: SB-05A (2-4) Analyte Result Qualifier **MDL** Unit RL Dil Fac D Method **Prep Type** 5.7 1.3 6010C Arsenic 0.44 mg/Kg 1 🜣 Total/NA Client Sample ID: SB-05D (0-2) Lab Sample ID: 500-208432-23 Analyte Result Qualifier RL **MDL** Unit Dil Fac D Method **Prep Type** 2.9 1.0 6010C 0.35 mg/Kg <u>1</u> ☆ Total/NA Arsenic Lab Sample ID: 500-208432-24 Client Sample ID: SB-05D (2-4) Analyte RL MDL Unit Result Qualifier Dil Fac D Method Prep Type Arsenic 1 1 0.96 0.33 mg/Kg ₩ 6010C Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

12/6/2021

### **Detection Summary**

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

| Client Sample ID: DUP-01 (111221) | Lab Sample ID: 500-208432-25 |
|-----------------------------------|------------------------------|
|-----------------------------------|------------------------------|

| Analyte | Result Qualifier | RL   | MDL Unit   | Dil Fac D Method | Prep Type |
|---------|------------------|------|------------|------------------|-----------|
| Arsenic | 0.57 J           | 0.89 | 0.30 mg/Kg | 1                | Total/NA  |

#### Client Sample ID: DUP-02 (111221) Lab Sample ID: 500-208432-26

| Analyte | Result Qualifier | RL   | MDL Unit   | Dil Fac | D Method | Prep Type |
|---------|------------------|------|------------|---------|----------|-----------|
| Arsenic | 2.4              | 0.91 | 0.31 mg/Kg | 1       | ⇔ 6010C  | Total/NA  |

#### Client Sample ID: DUP-03 (111221) Lab Sample ID: 500-208432-27

| Analyte | Result Qualifier | RL  | MDL Unit   | Dil Fac D Method | Prep Type |
|---------|------------------|-----|------------|------------------|-----------|
| Arsenic | 0.78 J           | 1.0 | 0.35 mg/Kg | 1 🔅 6010C        | Total/NA  |

#### **Method Summary**

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Laboratory Method **Method Description** Protocol 6010C Metals (ICP) SW846 TAL CHI Percent Moisture EPA TAL CHI Moisture 3050B Preparation, Metals SW846 TAL CHI

#### **Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Job ID: 500-208432-1

### **Sample Summary**

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

DUP-03 (111221)

500-208432-27

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 500-208432-1  | SB-04A (0-2)     | Solid  | 11/12/21 10:05 | 11/16/21 10:25 |
| 500-208432-2  | SB-04A (2-4)     | Solid  | 11/12/21 10:10 | 11/16/21 10:25 |
| 500-208432-3  | SB-04D (0-2)     | Solid  | 11/12/21 10:15 | 11/16/21 10:25 |
| 500-208432-4  | SB-04D (2-4)     | Solid  | 11/12/21 10:20 | 11/16/21 10:25 |
| 500-208432-5  | SB-01A (0-2)     | Solid  | 11/12/21 10:30 | 11/16/21 10:25 |
| 500-208432-6  | SB-01A (2-4)     | Solid  | 11/12/21 10:35 | 11/16/21 10:25 |
| 500-208432-7  | SB-02C (0-2)     | Solid  | 11/12/21 10:45 | 11/16/21 10:25 |
| 500-208432-8  | SB-02C (2-4)     | Solid  | 11/12/21 10:50 | 11/16/21 10:25 |
| 500-208432-9  | SB-02A (0-2)     | Solid  | 11/12/21 10:55 | 11/16/21 10:25 |
| 500-208432-10 | SB-02A (2-4)     | Solid  | 11/12/21 11:00 | 11/16/21 10:25 |
| 500-208432-11 | SB-02D (0-2)     | Solid  | 11/12/21 11:10 | 11/16/21 10:25 |
| 500-208432-12 | SB-02D (2-4)     | Solid  | 11/12/21 11:15 | 11/16/21 10:25 |
| 500-208432-13 | SB-04C (0-2)     | Solid  | 11/12/21 11:50 | 11/16/21 10:25 |
| 500-208432-14 | SB-04C (2-4)     | Solid  | 11/12/21 11:55 | 11/16/21 10:25 |
| 500-208432-15 | SB-04B (0-2)     | Solid  | 11/12/21 12:00 | 11/16/21 10:25 |
| 500-208432-16 | SB-04B (2-4)     | Solid  | 11/12/21 12:05 | 11/16/21 10:25 |
| 500-208432-17 | SB-05B (0-2)     | Solid  | 11/12/21 12:15 | 11/16/21 10:25 |
| 500-208432-18 | SB-05B (2-4)     | Solid  | 11/12/21 12:20 | 11/16/21 10:25 |
| 500-208432-19 | SB-05C (0-2)     | Solid  | 11/12/21 12:25 | 11/16/21 10:25 |
| 500-208432-20 | SB-05C (2-4)     | Solid  | 11/12/21 12:30 | 11/16/21 10:25 |
| 500-208432-21 | SB-05A (0-2)     | Solid  | 11/12/21 12:35 | 11/16/21 10:25 |
| 500-208432-22 | SB-05A (2-4)     | Solid  | 11/12/21 12:40 | 11/16/21 10:25 |
| 500-208432-23 | SB-05D (0-2)     | Solid  | 11/12/21 12:45 | 11/16/21 10:25 |
| 500-208432-24 | SB-05D (2-4)     | Solid  | 11/12/21 12:50 | 11/16/21 10:25 |
| 500-208432-25 | DUP-01 (111221)  | Solid  | 11/12/21 00:00 | 11/16/21 10:25 |
| 500-208432-26 | DUP-02 (111221)  | Solid  | 11/12/21 00:00 | 11/16/21 10:25 |

Solid

11/12/21 00:00 11/16/21 10:25

Job ID: 500-208432-1

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04A (0-2)

Lab Sample ID: 500-208432-1

Date Collected: 11/12/21 10:05

Matrix: Solid
Date Received: 11/16/21 10:25

Percent Solids: 87.9

Method: 6010C - Metals (ICP)

 Analyte
 Result Arsenic
 Qualifier
 RL 1.0
 MDL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared prepared 12/02/21 03:00
 Analyzed pil Fac 12/03/21 12:02
 Dil Fac 12/03/21 12:02

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04A (2-4)

Lab Sample ID: 500-208432-2

Date Collected: 11/12/21 10:10 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 95.5

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04D (0-2)

Lab Sample ID: 500-208432-3

Date Collected: 11/12/21 10:15

Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 90.9

| Method: 6010C - Metals (ICP) |        |           |     |      |       |   |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 0.77   | J         | 1.0 | 0.35 | mg/Kg | ≎ | 12/02/21 03:00 | 12/03/21 13:12 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04D (2-4)

Lab Sample ID: 500-208432-4

Date Collected: 11/12/21 10:20 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 95.9

| Method: 6010C - Metals (ICP) |        |           |     |      |       |         |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|---------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D       | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 0.39   | J         | 1.0 | 0.35 | mg/Kg | <u></u> | 12/02/21 03:00 | 12/03/21 13:16 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-01A (0-2)

Lab Sample ID: 500-208432-5

Date Collected: 11/12/21 10:30 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 92.3

| Method: 6010C - Metals (ICP) |                  |      |            |         |                |                |         |
|------------------------------|------------------|------|------------|---------|----------------|----------------|---------|
| Analyte                      | Result Qualifier | RL   | MDL Unit   | D       | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 12               | 0.99 | 0.34 mg/Kg | <u></u> | 12/02/21 03:00 | 12/03/21 13:19 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-01A (2-4)

Lab Sample ID: 500-208432-6

Date Collected: 11/12/21 10:35 Matrix: Solid
Date Received: 11/16/21 10:25 Percent Solids: 95.0

 Method: 6010C - Metals (ICP)

 Analyte
 Result Arsenic
 Qualifier
 RL Qualifier
 MDL Qualifier
 Unit Qualifier
 D Qualifier
 Prepared Qualifier
 Analyzed Qualifier
 D Qualifier

 Arsenic
 3.2
 0.99
 0.34 mg/Kg
 □ 12/02/21 03:00 12/03/21 13:22
 12/03/21 13:22
 1

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-7 Client Sample ID: SB-02C (0-2)

Date Collected: 11/12/21 10:45 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 89.4

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Arsenic 0.97 0.33 mg/Kg 12/02/21 03:00 12/03/21 13:25 3.2

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-02C (2-4) Lab Sample ID: 500-208432-8

Date Collected: 11/12/21 10:50 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 87.2

| Method: 6010C - Metals (ICP) |        |           |      |      |       |   |                |                |         |
|------------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 0.77   | J         | 0.99 | 0.34 | mg/Kg | ≎ | 12/02/21 03:00 | 12/03/21 13:28 | 1       |

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-9 Client Sample ID: SB-02A (0-2)

Date Collected: 11/12/21 10:55 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 89.3

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.36 mg/Kg Arsenic 1.1 12/02/21 03:00 12/03/21 13:31 3.2

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-02A (2-4)

Lab Sample ID: 500-208432-10

Date Collected: 11/12/21 11:00 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 65.8

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-02D (0-2) Lab Sample ID: 500-208432-11

Date Collected: 11/12/21 11:10 **Matrix: Solid** 

Date Received: 11/16/21 10:25 Percent Solids: 92.1

| Method: 6010C - Metals (ICP) |        |           |      |      |       |   |                |                |         |
|------------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 2.5    |           | 0.97 | 0.33 | mg/Kg | ₩ | 12/02/21 03:00 | 12/03/21 13:44 | 1       |

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-12 Client Sample ID: SB-02D (2-4)

Date Collected: 11/12/21 11:15 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 91.8

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Arsenic 0.92 0.32 mg/Kg 12/02/21 03:00 12/03/21 13:47 1.6

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04C (0-2)

Lab Sample ID: 500-208432-13

Date Collected: 11/12/21 11:50

Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 88.6

| Method: 6010C - Metals (ICP) |        |           |      |      |       |           |                |                |         |
|------------------------------|--------|-----------|------|------|-------|-----------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL   | MDL  | Unit  | D         | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 3.1    |           | 0.95 | 0.32 | mg/Kg | — <u></u> | 12/02/21 03:00 | 12/03/21 13:50 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-14 Client Sample ID: SB-04C (2-4)

Date Collected: 11/12/21 11:55 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 88.1

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.34 mg/Kg Arsenic 0.99 12/02/21 03:00 12/03/21 13:53 3.7

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04B (0-2)

Lab Sample ID: 500-208432-15

Date Collected: 11/12/21 12:00 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 89.7

| Method: 6010C - Metals (ICP) |        |           |     |      |       |         |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|---------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D       | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 64     |           | 1.0 | 0.35 | mg/Kg | <u></u> | 12/02/21 03:00 | 12/03/21 13:56 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04B (2-4)

Lab Sample ID: 500-208432-16

Date Collected: 11/12/21 12:05

Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 91.1

| Method: 6010C - Metals (ICP) |                  |      |      |       |   |                |                |         |
|------------------------------|------------------|------|------|-------|---|----------------|----------------|---------|
| Analyte                      | Result Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 2.4              | 0.97 | 0.33 | mg/Kg | ☆ | 12/02/21 03:00 | 12/03/21 14:00 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05B (0-2)

Lab Sample ID: 500-208432-17

Date Collected: 11/12/21 12:15

Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 86.2

| Method: 6010C - Metals (ICP) |        |           |     |      |       |          |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|----------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D        | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 5.9    |           | 1.0 | 0.35 | mg/Kg | <u> </u> | 12/02/21 03:00 | 12/03/21 14:03 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05B (2-4)

Lab Sample ID: 500-208432-18

Date Collected: 11/12/21 12:20 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 75.4

| Method: 6010C - Metals (ICP) |        |           |     |      |       |         |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|---------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D       | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 9.2    |           | 1.3 | 0.44 | mg/Kg | <u></u> | 12/02/21 03:00 | 12/03/21 14:06 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05C (0-2)

Lab Sample ID: 500-208432-19

Date Collected: 11/12/21 12:25 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 86.0

| Method: 6010C - Metals (ICP) |        |           |     |      |       |              |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|--------------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D            | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 7.8    |           | 1.1 | 0.39 | mg/Kg | <del>*</del> | 12/02/21 03:00 | 12/03/21 14:09 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-20 Client Sample ID: SB-05C (2-4)

Date Collected: 11/12/21 12:30 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 90.2

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.33 mg/Kg Arsenic 0.95 1.4

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05A (0-2)

Lab Sample ID: 500-208432-21

Date Collected: 11/12/21 12:35

Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 84.2

| Method: 6010C - Metals (ICP) |          |           |     |      |       |          |                |                |         |
|------------------------------|----------|-----------|-----|------|-------|----------|----------------|----------------|---------|
| Analyte                      | Result Q | Qualifier | RL  | MDL  | Unit  | D        | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 6.1      |           | 1.0 | 0.34 | mg/Kg | <u> </u> | 12/02/21 03:00 | 12/03/21 14:22 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05A (2-4)

Lab Sample ID: 500-208432-22

Date Collected: 11/12/21 12:40 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 75.6

| Method: 6010C - Metals (ICP) |        |           |     |      |       |              |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|--------------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D            | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 5.7    |           | 1.3 | 0.44 | mg/Kg | <del>*</del> | 12/02/21 03:30 | 12/03/21 11:18 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-23 Client Sample ID: SB-05D (0-2)

Date Collected: 11/12/21 12:45 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 81.9

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.35 mg/Kg Arsenic 1.0 2.9

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05D (2-4) Lab Sample ID: 500-208432-24

Date Collected: 11/12/21 12:50 **Matrix: Solid** 

Date Received: 11/16/21 10:25 Percent Solids: 92.7

| Method: 6010C - Metals (ICP) |        |           |      |      |       |         |                |                |         |
|------------------------------|--------|-----------|------|------|-------|---------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL   | MDL  | Unit  | D       | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 1.1    |           | 0.96 | 0.33 | mg/Kg | <u></u> | 12/02/21 03:30 | 12/03/21 11:43 | 1       |

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Lab Sample ID: 500-208432-25 **Client Sample ID: DUP-01 (111221)** 

Date Collected: 11/12/21 00:00 **Matrix: Solid** Date Received: 11/16/21 10:25

Percent Solids: 95.4

Method: 6010C - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.30 mg/Kg Arsenic 0.57 J 0.89 12/02/21 03:30 12/03/21 11:46

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: DUP-02 (111221) Lab Sample ID: 500-208432-26

Date Collected: 11/12/21 00:00 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 92.8

| Method: 6010C - Metals (ICP) |                  |      |      |       |   |                |                |         |
|------------------------------|------------------|------|------|-------|---|----------------|----------------|---------|
| Analyte                      | Result Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 2.4              | 0.91 | 0.31 | mg/Kg | ☆ | 12/02/21 03:30 | 12/03/21 11:49 | 1       |

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Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: DUP-03 (111221) Lab Sample ID: 500-208432-27

Date Collected: 11/12/21 00:00 Matrix: Solid

Date Received: 11/16/21 10:25 Percent Solids: 90.1

| Method: 6010C - Metals (ICP) |        |           |     |      |       |         |                |                |         |
|------------------------------|--------|-----------|-----|------|-------|---------|----------------|----------------|---------|
| Analyte                      | Result | Qualifier | RL  | MDL  | Unit  | D       | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | 0.78   | J         | 1.0 | 0.35 | mg/Kg | <u></u> | 12/02/21 03:30 | 12/03/21 11:52 | 1       |

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## **Definitions/Glossary**

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

#### Qualifiers

**Metals** 

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Job ID: 500-208432-1

Prep Type: Total/NA

**Prep Batch: 631718** 

Prep Type: Total/NA **Prep Batch: 631718** 

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-631718/1-A

**Analysis Batch: 632135** 

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 1.0 12/02/21 02:25 12/03/21 11:01 Arsenic < 0.34 0.34 mg/Kg

Lab Sample ID: LCS 500-631718/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 632135** 

Analyte

Arsenic

Spike Added

10.0

Spike

Added

10.0

Spike

Added

10.4

Spike

Added

10.7

Result Qualifier 8.28

LCS LCS

Unit mg/Kg

Unit

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D %Rec

80 - 120

%Rec.

Limits

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 631719** 

Prep Type: Total/NA

Lab Sample ID: MB 500-631719/1-A

**Matrix: Solid** 

**Analysis Batch: 632135** 

MB MB

Sample Sample

Sample Sample

Sample Sample

38

Result Qualifier

MB MB

3.8

Result Qualifier

3.8

Result Qualifier

Result Qualifier Analyte

Arsenic <0.34

RL **MDL** Unit 1.0 0.34 mg/Kg

LCS LCS

MS MS

MSD MSD

DU DU

3 81

Result Qualifier

**MDL** Unit

mg/Kg

0.34

12 8

Result Qualifier

12.1

Result Qualifier

8.55

Result Qualifier

Prepared

Dil Fac Analyzed 12/02/21 03:00 12/03/21 11:56

Lab Sample ID: LCS 500-631719/2-A

**Matrix: Solid** 

**Analysis Batch: 632135** 

Analyte

Arsenic

Lab Sample ID: 500-208432-1 MS **Matrix: Solid** 

**Analysis Batch: 632135** 

Analyte

Arsenic

Lab Sample ID: 500-208432-1 MSD

**Matrix: Solid** 

**Matrix: Solid** 

Arsenic

Analyte

Arsenic

**Analysis Batch: 632135** 

Analyte

Lab Sample ID: 500-208432-1 DU

**Analysis Batch: 632135** 

Lab Sample ID: MB 500-631720/1-A **Matrix: Solid** 

**Analysis Batch: 632135** 

Result Qualifier Analyte Arsenic < 0.34

**Client Sample ID: Lab Control Sample** 

**Prep Batch: 631719** %Rec.

%Rec

%Rec

Prepared

12/02/21 03:30

D

80

D %Rec Limits

80 - 120

Client Sample ID: SB-04A (0-2) Prep Type: Total/NA

**Prep Batch: 631719** 

%Rec.

Limits 75 - 125

Client Sample ID: SB-04A (0-2)

Prep Type: Total/NA

**Prep Batch: 631719** 

%Rec. **RPD** Limits **RPD** Limit

75 - 125

Client Sample ID: SB-04A (0-2) Prep Type: Total/NA

**Prep Batch: 631719** 

**RPD** Limit

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 631720** 

Dil Fac Analyzed 12/03/21 11:11

Eurofins TestAmerica, Chicago

RL

1.0

# **QC Sample Results**

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Method: 6010C - Metals (ICP)

| Lab Sample ID: LCS 500-631720/2-A |       |        |           | Clien | t Sai | mple ID | : Lab Control Sample |
|-----------------------------------|-------|--------|-----------|-------|-------|---------|----------------------|
| Matrix: Solid                     |       |        |           |       |       |         | Prep Type: Total/NA  |
| Analysis Batch: 632135            |       |        |           |       |       |         | Prep Batch: 631720   |
|                                   | Spike | LCS    | LCS       |       |       |         | %Rec.                |
| Analyte                           | Added | Result | Qualifier | Unit  | D     | %Rec    | Limits               |
| Arsenic                           | 10.0  | 8.41   |           | mg/Kg |       | 84      | 80 - 120             |

| Lab Sample ID: 500-208432<br>Matrix: Solid<br>Analysis Batch: 632135 | -22 MS |           |       |        |           |       | CI | ient Sa | Prep Ty  | SB-05A (2-4)<br>pe: Total/NA<br>atch: 631720 |
|--|--------|-----------|-------|--------|-----------|-------|----|---------|----------|--|
|  | Sample | Sample    | Spike | MS     | MS        |       |    |         | %Rec.    |  |
| Analyte  | Result | Qualifier | Added | Result | Qualifier | Unit  | D  | %Rec    | Limits   |  |
| Arsenic  | 5.7    |           | 12.2  | 17.3   |           | mg/Kg | ₩  | 95      | 75 - 125 |  |

| Lab Sample ID: 500-208433 | 2-22 MSD |           |       |        |           |       | CI      | lient Sa | mple ID:       | SB-05A   | (2-4) |
|---------------------------|----------|-----------|-------|--------|-----------|-------|---------|----------|----------------|----------|-------|
| Matrix: Solid             |          |           |       |        |           |       |         |          | <b>Prep Ty</b> | pe: Tot  | al/NA |
| Analysis Batch: 632135    |          |           |       |        |           |       |         |          | Prep Ba        | atch: 63 | 31720 |
|                           | Sample   | Sample    | Spike | MSD    | MSD       |       |         |          | %Rec.          |          | RPD   |
| Analyte                   | Result   | Qualifier | Added | Result | Qualifier | Unit  | D       | %Rec     | Limits         | RPD      | Limit |
| Arsenic                   | 5.7      |           | 12.7  | 17.5   |           | mg/Kg | <u></u> | 93       | 75 - 125       | 1        | 20    |

|   | Lab Sample ID: 500-208432-22 D<br>Matrix: Solid | U      |           |        |           |       | Clie | ent Sar | nple ID:<br>Prep Ty |         | • •   |
|---|---|--------|-----------|--------|-----------|-------|------|---------|---------------------|---------|-------|
|   | Analysis Batch: 632135                          |        |           |        |           |       |      |         | Prep B              | atch: 6 | 31720 |
|   | Sa  | ample  | Sample    | DU     | DU        |       |      |         |                     |         | RPD   |
|   | Analyte F                                       | Result | Qualifier | Result | Qualifier | Unit  | D    |         |                     | RPD     | Limit |
| l | Arsenic   | 5.7    |           | 5.58   |           | mg/Kg | ₩    |         |                     | 2       | 20    |

3

4

6

8

9

10

12

13

Job ID: 500-208432-1

**Matrix: Solid** 

Matrix: Solid

**Matrix: Solid** 

**Matrix: Solid** 

Percent Solids: 95.5

Lab Sample ID: 500-208432-1

Lab Sample ID: 500-208432-1

Lab Sample ID: 500-208432-2

Lab Sample ID: 500-208432-2

Lab Sample ID: 500-208432-3

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04A (0-2)

Date Collected: 11/12/21 10:05

Date Received: 11/16/21 10:25

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-04A (0-2)

Date Received: 11/16/21 10:25

Date Collected: 11/12/21 10:05

| <b>Date Receive</b> | d: 11/16/21 1 | 0:25   |     |          |        |                |         | Percent Solids: 87.9 |
|---------------------|---------------|--------|-----|----------|--------|----------------|---------|----------------------|
|                     | Batch         | Batch  |     | Dilution | Batch  | Prepared       |         |                      |
| Prep Type           | Туре          | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab                  |
| Total/NA            | Prep          | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI              |
| Total/NA            | Analysis      | 6010C  |     | 1        | 632135 | 12/03/21 12:02 | JJB     | TAL CHI              |

Client Sample ID: SB-04A (2-4)

Date Collected: 11/12/21 10:10

Date Received: 11/16/21 10:25

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-04A (2-4)

Date Collected: 11/12/21 10:10

Date Received: 11/16/21 10:25

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631718 | 12/02/21 02:25 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 11:08 | JJB     | TAL CHI |

Client Sample ID: SB-04D (0-2)

Date Collected: 11/12/21 10:15

Date Received: 11/16/21 10:25

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     |          | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Date Collected: 11/12/21 10:15

Date Received: 11/16/21 10:25

| Prep Type            | Туре      | Method    | Run | Factor | Number | or Analyzed    | Analyst | Lab      |           |      |
|----------------------|-----------|-----------|-----|--------|--------|----------------|---------|----------|-----------|------|
| Total/NA             | Analysis  | Moisture  |     | 1      | 631125 | 11/29/21 07:03 | LWN     | TAL CHI  | ,         |      |
| <b>Client Sample</b> | e ID: SB- | 04D (0-2) |     |        |        |                | Lab Sa  | mple ID: | 500-20843 | 32-3 |

Batch **Batch** Dilution Batch Prepared Number or Analyzed Analyst **Prep Type** Type Method Run Factor 3050B 631719 12/02/21 03:00 WRE Total/NA Prep TAL CHI Total/NA 6010C 632135 12/03/21 13:12 JJB TAL CHI Analysis 1

Client Sample ID: SB-04D (2-4)

Date Collected: 11/12/21 10:20

Date Received: 11/16/21 10:25

|           | Batch    | Batch    |     | Dilution   | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|------------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor     | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | _ <u> </u> | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

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Lab Sample ID: 500-208432-4

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**Matrix: Solid** 

Matrix: Solid

Percent Solids: 90.9

12/6/2021

Client: ARCADIS U.S., Inc. Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04D (2-4)

Date Collected: 11/12/21 10:20

Lab Sample ID: 500-208432-4 Matrix: Solid Date Received: 11/16/21 10:25

Percent Solids: 95.9

Job ID: 500-208432-1

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 3050B 12/02/21 03:00 WRE TAL CHI Prep 631719 Total/NA 6010C TAL CHI Analysis 632135 12/03/21 13:16 JJB 1

Client Sample ID: SB-01A (0-2) Lab Sample ID: 500-208432-5

Matrix: Solid

Date Collected: 11/12/21 10:30 Date Received: 11/16/21 10:25

Batch Batch Dilution Batch Prepared Method Number or Analyzed **Prep Type Factor** Type Run Analyst Lab TAL CHI Total/NA Analysis Moisture 631125 11/29/21 07:03 LWN

Client Sample ID: SB-01A (0-2) Lab Sample ID: 500-208432-5

Date Collected: 11/12/21 10:30 **Matrix: Solid** 

Date Received: 11/16/21 10:25 Percent Solids: 92.3

Dilution Batch Batch Batch **Prepared** Method Factor Number or Analyzed Analyst Lab **Prep Type** Type Run Total/NA Prep 3050B 631719 12/02/21 03:00 WRE TAL CHI Total/NA Analysis 6010C 1 632135 12/03/21 13:19 JJB TAL CHI

Client Sample ID: SB-01A (2-4) Lab Sample ID: 500-208432-6 **Matrix: Solid** 

Date Collected: 11/12/21 10:35 Date Received: 11/16/21 10:25

Dilution Ratch Batch Prepared Batch **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab TAL CHI Total/NA Analysis Moisture 631125 11/29/21 07:03 LWN

Lab Sample ID: 500-208432-6 Client Sample ID: SB-01A (2-4)

Date Collected: 11/12/21 10:35 Matrix: Solid Date Received: 11/16/21 10:25 Percent Solids: 95.0

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3050B 12/02/21 03:00 WRE TAL CHI 631719 Total/NA Analysis 6010C 1 632135 12/03/21 13:22 TAL CHI

Lab Sample ID: 500-208432-7 Client Sample ID: SB-02C (0-2)

Date Collected: 11/12/21 10:45 Date Received: 11/16/21 10:25

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Factor Number or Analyzed Run Analyst Lab 11/29/21 07:03 LWN TAL CHI Moisture 631125 Total/NA Analysis

Client: ARCADIS U.S., Inc. Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-02C (0-2)

Date Collected: 11/12/21 10:45 Date Received: 11/16/21 10:25 Lab Sample ID: 500-208432-7

**Matrix: Solid** 

Percent Solids: 89.4

Job ID: 500-208432-1

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 13:25 | JJB     | TAL CHI |

Client Sample ID: SB-02C (2-4)

Date Collected: 11/12/21 10:50 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-8

**Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-02C (2-4)

Date Collected: 11/12/21 10:50 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-8

**Matrix: Solid** Percent Solids: 87.2

|   | Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared or Analyzed | Analyst | Lab     |
|---|-----------|---------------|-----------------|-----|--------------------|-----------------|----------------------|---------|---------|
|   | Total/NA  | Prep          | 3050B           |     |                    | 631719          | 12/02/21 03:00       | WRE     | TAL CHI |
| l | Total/NA  | Analysis      | 6010C           |     | 1                  | 632135          | 12/03/21 13:28       | JJB     | TAL CHI |

Client Sample ID: SB-02A (0-2)

Date Collected: 11/12/21 10:55 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-9

**Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |   |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|---|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |   |
| Total/NA  | Analysis | Moisture |     |          | 631125 | 11/29/21 07:03 | IWN     | TAL CHI | - |

Client Sample ID: SB-02A (0-2)

Date Collected: 11/12/21 10:55

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-9 **Matrix: Solid** 

Percent Solids: 89.3

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 13:31 | JJB     | TAL CHI |

Client Sample ID: SB-02A (2-4)

Date Collected: 11/12/21 11:00

Date Received: 11/16/21 10:25

| Lab | Sample | :טו | 500-208432-10 |
|-----|--------|-----|---------------|
|     |        |     | Matrix: Solid |

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-02A (2-4)

Date Collected: 11/12/21 11:00 Date Received: 11/16/21 10:25 Lab Sample ID: 500-208432-10

**Matrix: Solid** 

Percent Solids: 65.8

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 13:41 | JJB     | TAL CHI |

Client Sample ID: SB-02D (0-2)

Date Collected: 11/12/21 11:10 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-11

Matrix: Solid

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-02D (0-2)

Date Collected: 11/12/21 11:10 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-11

**Matrix: Solid** 

Percent Solids: 92.1

| Prep Type | Batch<br>Type | Batch<br>Method | Run  | Dilution<br>Factor | Batch<br>Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|------|--------------------|-----------------|----------------------|---------|---------|
| Total/NA  | Prep          | 3050B           | Kuii |                    |                 | 12/02/21 03:00       |         | TAL CHI |
| Total/NA  | Analysis      | 6010C           |      | 1                  | 632135          | 12/03/21 13:44       | JJB     | TAL CHI |

Client Sample ID: SB-02D (2-4)

Date Collected: 11/12/21 11:15

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-12

**Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-02D (2-4)

Date Collected: 11/12/21 11:15 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-12 **Matrix: Solid** 

Percent Solids: 91.8

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 13:47 | JJB     | TAL CHI |

Client Sample ID: SB-04C (0-2)

Date Collected: 11/12/21 11:50

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-13 **Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04C (0-2)

Date Collected: 11/12/21 11:50 Date Received: 11/16/21 10:25

Client: ARCADIS U.S., Inc.

Lab Sample ID: 500-208432-13 Matrix: Solid

Percent Solids: 88.6

Batch Dilution Batch Ratch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 3050B 12/02/21 03:00 WRE TAL CHI Prep 631719

Total/NA 6010C Analysis 632135 12/03/21 13:50 JJB TAL CHI 1

Client Sample ID: SB-04C (2-4) Lab Sample ID: 500-208432-14 Matrix: Solid

Date Collected: 11/12/21 11:55 Date Received: 11/16/21 10:25

Batch Batch Dilution Batch Prepared Method Number **Prep Type Factor** or Analyzed Type Run Analyst Lab TAL CHI Total/NA Analysis Moisture 631125 11/29/21 07:03 LWN

Client Sample ID: SB-04C (2-4) Lab Sample ID: 500-208432-14

Date Collected: 11/12/21 11:55 **Matrix: Solid** Date Received: 11/16/21 10:25 Percent Solids: 88.1

Dilution Batch Batch Batch **Prepared** Method Factor Number or Analyzed Analyst Lab **Prep Type** Type Run Total/NA Prep 3050B 631719 12/02/21 03:00 WRE TAL CHI Total/NA Analysis 6010C 1 632135 12/03/21 13:53 JJB TAL CHI

Client Sample ID: SB-04B (0-2) Lab Sample ID: 500-208432-15

Date Collected: 11/12/21 12:00 **Matrix: Solid** 

Date Received: 11/16/21 10:25

Dilution Batch Batch Prepared Batch **Prep Type** Type Method Run **Factor** Number or Analyzed **Analyst** Lab TAL CHI Total/NA Analysis Moisture 631125 11/29/21 07:03 LWN

Lab Sample ID: 500-208432-15 Client Sample ID: SB-04B (0-2)

Date Collected: 11/12/21 12:00 Matrix: Solid Date Received: 11/16/21 10:25 Percent Solids: 89.7

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3050B 12/02/21 03:00 WRE TAL CHI 631719 Total/NA Analysis 6010C 1 632135 12/03/21 13:56 JJB TAL CHI

Client Sample ID: SB-04B (2-4) Lab Sample ID: 500-208432-16

Date Collected: 11/12/21 12:05 **Matrix: Solid** Date Received: 11/16/21 10:25

Dilution Batch Batch Batch Prepared Type Method Factor Number or Analyzed **Prep Type** Run Analyst Lab TAL CHI Moisture 631125 11/29/21 07:03 LWN Total/NA Analysis

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-04B (2-4)

Date Collected: 11/12/21 12:05

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-16

**Matrix: Solid** 

Percent Solids: 91.1

Job ID: 500-208432-1

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 14:00 | JJB     | TAL CHI |

Client Sample ID: SB-05B (0-2)

Date Collected: 11/12/21 12:15 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-17

**Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-05B (0-2)

Date Collected: 11/12/21 12:15 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-17 **Matrix: Solid** 

Percent Solids: 86.2

|   | Dran Time          | Batch        | Batch           | Dun | Dilution | Batch  | Prepared                      | Amaluat        | l ab    |
|---|--------------------|--------------|-----------------|-----|----------|--------|-------------------------------|----------------|---------|
|   | Prep Type Total/NA | Type<br>Prep | Method<br>3050B | Run | Factor _ | 631719 | or Analyzed<br>12/02/21 03:00 | Analyst<br>WRE | TAL CHI |
| l | Total/NA           | Analysis     | 6010C           |     | 1        | 632135 | 12/03/21 14:03                | JJB            | TAL CHI |

Dilution

**Factor** 

Batch

Number

Client Sample ID: SB-05B (2-4)

Date Collected: 11/12/21 12:20

Date Received: 11/16/21 10:25

**Prep Type** 

| Lab | Sample | ID: | 500-208432-18 |  |
|-----|--------|-----|---------------|--|
|     | _      |     | Matrix: Solid |  |

Prepared or Analyzed Analyst 631125 11/29/21 07:03 LWN TAL CHI

Total/NA Analysis Moisture Client Sample ID: SB-05B (2-4)

Batch

Type

Batch

Method

Date Collected: 11/12/21 12:20 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-18

**Matrix: Solid** Percent Solids: 75.4

|         | В     | Batch   | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|---------|-------|---------|--------|-----|----------|--------|----------------|---------|---------|
| Prep T  | ype T | уре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/N | A P   | rep     | 3050B  |     | ·        | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/N | A A   | nalysis | 6010C  |     | 1        | 632135 | 12/03/21 14:06 | JJB     | TAL CHI |

Run

Client Sample ID: SB-05C (0-2)

Date Collected: 11/12/21 12:25

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-19

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |   |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|---|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |   |
| Total/NA  | Δnalveie | Moisture |     |          | 631125 | 11/20/21 07:03 | I W/NI  | TAL CHI | • |

Client: ARCADIS U.S., Inc.

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: SB-05C (0-2)

Date Collected: 11/12/21 12:25

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-19

**Matrix: Solid** 

Percent Solids: 86.0

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 14:09 | JJB     | TAL CHI |

Client Sample ID: SB-05C (2-4)

Date Collected: 11/12/21 12:30 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-20

Matrix: Solid

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631125 | 11/29/21 07:03 | LWN     | TAL CHI |

Client Sample ID: SB-05C (2-4)

Date Collected: 11/12/21 12:30

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-20

**Matrix: Solid** Percent Solids: 90.2

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|----------------------|---------|---------|
| Total/NA  | Prep          | 3050B           |     |                    | 631719          | 12/02/21 03:00       | WRE     | TAL CHI |
| Total/NA  | Analysis      | 6010C           |     | 1                  | 632135          | 12/03/21 14:19       | JJB     | TAL CHI |

Client Sample ID: SB-05A (0-2)

Date Collected: 11/12/21 12:35

Date Received: 11/16/21 10:25

| Lab Samp | ie iD: | 500-208432-21 |
|----------|--------|---------------|
| _        |        | Matrix: Solid |

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

Client Sample ID: SB-05A (0-2)

Date Collected: 11/12/21 12:35

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-21

Matrix: Solid Percent Solids: 84.2

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631719 | 12/02/21 03:00 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 14:22 | JJB     | TAL CHI |

Client Sample ID: SB-05A (2-4)

Date Collected: 11/12/21 12:40

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-22

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

Client Sample ID: SB-05A (2-4)

Date Collected: 11/12/21 12:40

Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-22

**Matrix: Solid** 

Percent Solids: 75.6

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631720 | 12/02/21 03:30 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 11:18 | JJB     | TAL CHI |

Client Sample ID: SB-05D (0-2)

Date Collected: 11/12/21 12:45 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-23

**Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

Client Sample ID: SB-05D (0-2)

Date Collected: 11/12/21 12:45 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-23

**Matrix: Solid** Percent Solids: 81.9

Dilution Batch **Batch** Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3050B 631720 12/02/21 03:30 WRE TAL CHI

Client Sample ID: SB-05D (2-4)

Analysis

6010C

Date Collected: 11/12/21 12:50 Date Received: 11/16/21 10:25

Total/NA

Lab Sample ID: 500-208432-24

TAL CHI

**Matrix: Solid** 

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

Client Sample ID: SB-05D (2-4)

Date Collected: 11/12/21 12:50

Lab Sample ID: 500-208432-24

**Matrix: Solid** 

Date Received: 11/16/21 10:25 Percent Solids: 92.7

1

632135 12/03/21 11:40 JJB

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |   |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|---|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |   |
| Total/NA  | Prep     | 3050B  |     |          | 631720 | 12/02/21 03:30 | WRE     | TAL CHI | _ |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 11:43 | JJB     | TAL CHI |   |

**Client Sample ID: DUP-01 (111221)** 

Date Collected: 11/12/21 00:00 Date Received: 11/16/21 10:25

Lab Sample ID: 500-208432-25

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

### **Lab Chronicle**

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

Client Sample ID: DUP-01 (111221)

Lab Sample ID: 500-208432-25 Date Collected: 11/12/21 00:00 **Matrix: Solid** 

Date Received: 11/16/21 10:25 Percent Solids: 95.4

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631720 | 12/02/21 03:30 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 11:46 | JJB     | TAL CHI |

Lab Sample ID: 500-208432-26 **Client Sample ID: DUP-02 (111221)** 

Date Collected: 11/12/21 00:00 Matrix: Solid

Date Received: 11/16/21 10:25

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture | _   | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

**Client Sample ID: DUP-02 (111221)** Lab Sample ID: 500-208432-26

Date Collected: 11/12/21 00:00 **Matrix: Solid** 

Date Received: 11/16/21 10:25 Percent Solids: 92.8

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631720 | 12/02/21 03:30 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 11:49 | JJB     | TAL CHI |

Client Sample ID: DUP-03 (111221) Lab Sample ID: 500-208432-27

Date Collected: 11/12/21 00:00 **Matrix: Solid** Date Received: 11/16/21 10:25

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | Moisture |     | 1        | 631201 | 11/29/21 09:31 | LWN     | TAL CHI |

Client Sample ID: DUP-03 (111221) Lab Sample ID: 500-208432-27

Date Collected: 11/12/21 00:00 Matrix: Solid Date Received: 11/16/21 10:25 Percent Solids: 90.1

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3050B  |     |          | 631720 | 12/02/21 03:30 | WRE     | TAL CHI |
| Total/NA  | Analysis | 6010C  |     | 1        | 632135 | 12/03/21 11:52 | JJB     | TAL CHI |

#### **Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

12/6/2021

# **Accreditation/Certification Summary**

Client: ARCADIS U.S., Inc. Job ID: 500-208432-1

Project/Site: 3M Wausau, WI 30087606.00001

## Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | <b>Expiration Date</b> |
|-----------|---------|-----------------------|------------------------|
| Wisconsin | State   | 999580010             | 08-31-22               |

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## Eurofins TestAmerica, Chicago

# **Chain of Custody Record**

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University Park, IL 60484-3101

2417 Bond Street

| phone 708 534 5200 fax 708 534 5211   | Regulatory Program: Dw DNPDES                        |                                  |   |           |               |                       | □ RCR                | A 🗍 Other         |           |              | estAmerica Laboratories, Inc. d/b/a Eurofins TestAmeric |                      |         |                       |  |  |  |  |
|---|--|----------------------------------|---|-----------|---------------|-----------------------|----------------------|-------------------|-----------|--------------|---|----------------------|---------|-----------------------|--|--|--|--|
|   | Project M  | Project Manager: Treng Seikeiner |   |           |               |                       |                      | /                 |           |              |   |                      | COC No  |                       |  |  |  |  |
| Client Contact  | Email +  | enna. Seil                       |   |           |               | Site                  | e Con                | tact: LR          | Date: (/  | 115/         | 21  |                      | of COCs |                       |  |  |  |  |
| Arcadis   | Tel/Fax:   |                                  |   |           |               |                       | o Con                |                   |           | Carrier:     |   |                      |         | TALS Project #        |  |  |  |  |
| 126 N Jefferson St  |  | Analysis T                       | urnaround                               | d Time    |               | П                     |                      |                   |           |              |   | Sampler <sup>.</sup> |         |                       |  |  |  |  |
| Milwaukee, WI 53202   | ☐ CALEN  | DAR DAYS                         | ☐ WOR                                   | RKING DAY | s 🔪           | $]\ [$                | İ                    |                   |           |              |   |                      |         | For Lab Use Only:     |  |  |  |  |
| (xxx) xxx-xxxx Phon   |  | T if different fr                | om Below_                               | Ha w      | ar            | 1                     | Î                    |                   |           |              |   |                      | 1       | Walk-in Client.       |  |  |  |  |
| (xxx) xxx-xxxx FAX  |  |                                  | weeks                                   |           |               | z i                   | >                    |                   |           |              |   |                      |         | Lab Sampling          |  |  |  |  |
| Project Name 3M Wausau 500-208432 COC   | _ 🗆  |                                  | week                                    |           |               | 2                     | ا۾                   |                   |           |              |   |                      |         |                       |  |  |  |  |
| Site Wausau, WI P O # 30087606 00001  |  |                                  | days                                    |           |               | a<br>e                | SE                   |                   |           |              |   |                      |         | Job / SDG No          |  |  |  |  |
| P U # 30087808 00001  |  | 1                                | day<br>Sample                           | 7         | l             | Filtered Sample (Y/N) | Σ.                   |                   |           |              |   |                      |         | 500-208432            |  |  |  |  |
|   | <b>.</b> .   | ا . ا                            | Type                                    |           |               | 8                     | ĒΝ                   |                   |           |              |   |                      |         |                       |  |  |  |  |
| Sample Identification   | Sample<br>Date                                       | Sample<br>Time                   | (C≕Comp,<br>G≕Grab)                     | Matrix    | # of<br>Cont. | ĬĒ,                   | 批                    |                   |           |              |   |                      |         | Sample Specific Nates |  |  |  |  |
|   | +++  | Tille                            |   | Watrix    | 7             | 17                    | -1                   |                   |           |              | $\vdash$  | +                    | =       | Sample Specific Notes |  |  |  |  |
| SB-c4A (0-2)  | 11 12/21   | 1005                             | 9                                       | 7         | /,            | M                     | 7 X                  |                   |           |              |   |                      |         | MS/MSD                |  |  |  |  |
| SB-04A (2-4)  |  | 1010                             | a i i i i i i i i i i i i i i i i i i i |           |               | Ш                     | ML                   |                   |           |              |   |                      |         |                       |  |  |  |  |
| SB-04D (0-2)  | - Company  | 1015                             |   |           |               |                       |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
| 5B-C4D (2-4)  |  | 1020                             |   |           |               | Ш                     |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
| SB-C/A (0-2)  |  | 1030                             |   |           |               | Ш                     | Ш                    |                   |           |              |   | $\exists \exists$    |         |                       |  |  |  |  |
| SB-01A(2-4)   |  | 1035                             |   |           |               | Ш                     |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
| 56-020(0-2)   |  | 1045                             |   |           |               |                       |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
| SB-02C(2-4)   |  | 1050                             |   |           |               |                       |                      |                   |           |              |   |                      | 1       |                       |  |  |  |  |
| S2-02 A (0-2)   |  | 1055                             |   |           |               | III                   |                      |                   |           |              |   |                      | 1       |                       |  |  |  |  |
| SB-02A(2-4)   |  | 1100                             |   |           |               | $\dagger \dagger$     | Ш                    |                   |           |              |   |                      | $\top$  |                       |  |  |  |  |
| SB-0200-2   |  | 11/0                             |   |           |               | $\parallel \parallel$ |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
| 55-020 (2-4)  | 1  | 1115                             | J                                       | 7         | 4             | b                     | 少七                   |                   |           |              |   |                      |         |                       |  |  |  |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3;  | 5=NaOH; 6  |                                  |   |           |               | +                     | ******************** |                   |           |              |   |                      | $\top$  |                       |  |  |  |  |
| Possible Hazard Identification:   |  |                                  |   |           |               |                       | Sampl                | Disposal ( A fe   | ee may be | assessed i   | f sample  | s are ret            | ained   | longer than 1 month)  |  |  |  |  |
| Are any samples from a listed EPA Hazardous Waste? Pleas<br>Comments Section if the lab is to dispose of the sample | se List any E  | EPA Waste                        | Codes for                               | the sam   | ole in th     | ne                    |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
|   | ☐ Poicon I   | 2                                | □ Unkno                                 | 1400      |               | $\dashv$              | [] Do                | turn to Client    |           |              |   | Archive              | for     | Months                |  |  |  |  |
| Special Instructions/QC Requirements & Comments:  | Non-Hazard   |                                  |   |           |               |                       |                      | turn to cheric    | DIS       | posal by Lab |   | Alchive              | 101     | ronus                 |  |  |  |  |
|   | Jeciai iliau ucuolia/40 Nequillellia a collillellia. |                                  |   |           |               |                       |                      |                   |           |              |   |                      |         |                       |  |  |  |  |
|   |  |                                  |   |           |               |                       |                      |                   |           | . ^ ^        | la  |                      | /       |                       |  |  |  |  |
| Custody Seals Intact  | Custody S  | eal No                           |   |           |               |                       |                      | Cooler Temp       | (°C) Ohs  | id Vi        | Corr'd  | 4d                   | :       | Therm ID No           |  |  |  |  |
| Relinguished by:  | Company'   | antv∵ ) — Dante/Time             |   |           |               | F                     | Receiv               |                   | ( - ) 500 |              | npany.  |                      |         |                       |  |  |  |  |
| 7 7   | 7  | ral o                            | /                                       |           |               | Sh                    |                      | Sur               |           | <u>`\</u>    |   |                      |         | Date/Time             |  |  |  |  |
| Relinquished by   | Company.   | 11                               | 15-21                                   | Date/Ti   | ne<br>00      | -                     | Receiv               |                   | 4         | j            | npany <sup>.</sup>                                      |                      |         | Date/Time             |  |  |  |  |
| Relinquished by   | Company.   |                                  |   | Date/Tir  | ne<br>age 4   | 9 h                   | Receive              | ed in Cathoratory | by last   | th Cor       | npany:  | 1                    |         | Date/fime 2 (6)25     |  |  |  |  |

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## Eurofins TestAmerica, Chicago

# **Chain of Custody Record**

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| 2417 | Bond | Street |
|------|------|--------|

| University Park, IL 60484-3101<br>phone 708 534 5200 fax 708 534 5211   | Regulatory Pro          | gram: Dw DNPDES  | ☐ RCRA ☐ Other                                  | TestAmerica Lat                  | poratories, Inc. d/b/a Eurofins TestAmeric |  |  |  |
|---|-------------------------|--|---|----------------------------------|--|--|--|--|
|   | Project Manager: 5      | ce of  | ]   | , ,                              | COC No                                     |  |  |  |
| Client Contact  | Email                   |  | Site Contact: LR                                | Date: /1/15/2-1                  | of COCs                                    |  |  |  |
| Arcadis   | Tel/Fax:                | Tel/Fax: Lab   |   | Carrier:                         | TALS Project #                             |  |  |  |
| 126 N Jefferson St  | Analysis Tu             | Analysis Turnaround Time   |   |                                  | Sampler <sup>.</sup>                       |  |  |  |
| Milwaukee, WI 53202   | ☐ CALENDAR DAYS         | ☐ WORKING DAYS   | <b>1                                    </b>    |                                  | For Lab Use Only:                          |  |  |  |
| (xxx) xxx-xxxx Phone  | TAT if different fro    | om Below   |   |                                  | Walk-in Client.                            |  |  |  |
| (xxx) xxx-xxxx FAX  | □ 2 v                   | veeks  |   |                                  | Lab Sampling                               |  |  |  |
| Project Name 3M Wausau  |                         | veek   |   |                                  |  |  |  |  |
| Site Wausau, WI   |                         | lays   | eld WS  |                                  | Job / SDG No                               |  |  |  |
| P O # 30087606 00001  |                         |  | MS / MSD  |                                  | 500-200432                                 |  |  |  |
| Sample Identification   | Sample Sample Date Time | Sample Type (C=Comp, G=Grab) Matrix Cont.  | Filtered Sample (Y/N) Perform MS/MSD (Y/N)  A S |                                  | Sample Specific Notes                      |  |  |  |
| 5B-04C (0-2)  | 11/12/21 1150           | 6 51   | NWX   |                                  |  |  |  |  |
| SB-C4C(2-4)   | 1155                    |  |   |                                  |  |  |  |  |
| SB-04B (0-2)  | 1200                    |  |   |                                  |  |  |  |  |
| SB-04B(2-4)   | 1205                    |  |   |                                  |  |  |  |  |
| SB-05B (0-2)  | 1215                    | The state of the s |   |                                  |  |  |  |  |
| SB-05B(2-4)   | 1220                    |  |   |                                  |  |  |  |  |
| 58-050 (0-2)  | (225                    |  |   |                                  |  |  |  |  |
| SB-05C (2-4)  | 1230                    |  |   |                                  |  |  |  |  |
| SB-05A(0-2)   | 12-35                   |  |   |                                  |  |  |  |  |
| SB-05A(2-4)   | 1240                    |  |   |                                  | MS/MSD                                     |  |  |  |
| SB-05D(0-Z)   | 1245                    |  |   |                                  | \  |  |  |  |
| SB-05D(2-4)   | 1250                    | 0 0 0  | 144   |                                  |  |  |  |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3;  | 5=NaOH; 6= Other        |  |   |                                  |  |  |  |  |
| Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample | se List any EPA Waste   | Codes for the sample in th   | e Sample Disposal ( A fee may i                 | e assessed if samples are retain | ed longer than 1 month)                    |  |  |  |
| Non-Hazard  | ☐ Poison B              | Unknown  | ☐ Return to Client                              | Disposal by Lab Archive for_     | Months                                     |  |  |  |
| Special Instructions/QC Requirements & Comments:  |                         |  |   |                                  |  |  |  |  |
|   |                         |  |   |                                  |  |  |  |  |
| Custody Seals Intact.   | Custody Seal No         |  | Cooler Temp (°C) C                              | bs'd Corr'd                      | Therm ID No                                |  |  |  |
| Relinguished by   | Company Arca o          | Date/Tiple ////5/2/ 90   | Received by:                                    | Company.                         | Date/Time (1900)                           |  |  |  |
| Relinquished by   | ICompany:               | 15-21 Date/Time  | Received by                                     | Company <sup>-</sup>             | Date/Time                                  |  |  |  |
| Relinquished by   | Date/Time               | Received in laboratory by  | Company.  | Date Time / G 7502               |  |  |  |  |

### Eurofins TestAmerica, Chicago

# **Chain of Custody Record**

eurofins

2417 Bond Street

| University Deals II | 60494 2404         |
|---------------------|--------------------|
| University Park, IL | 00404-3101         |
| nhone 708 534 526   | 00 fax 708 534 521 |

| University Park, IL 60484-3101<br>phone 708 534 5200 fax 708 534 5211  | Regula                                     | atory Pro                   | ogram:                                | DW [              | NPDES         |              | RCRA                      | . [    | Other                         |       |          |               |                 |          |           | TestA  | meric   | a Lab                 | oratories   | , Inc. d/b/a | a Eurofii   | ns Test   | tAmeric  |
|--|--|-----------------------------|---------------------------------------|-------------------|---------------|--------------|---------------------------|--------|-------------------------------|-------|----------|---------------|-----------------|----------|-----------|--------|---------|-----------------------|-------------|--------------|-------------|-----------|--|
|  | Project Ma                                 | nager: 4                    | ser O                                 | 1                 |               |              |                           |        |                               |       |          |               |                 |          | /         | /      |         |                       | coc         | No           |             |           |  |
| Client Contact   | Email                                      | <del>-</del>                | <del></del>                           |                   |               | Site         | Cont                      | act: L | .R                            |       |          | Date: ///5/2/ |                 |          |           |        |         |                       | 3 of 3 COCs |              |             |           |  |
| Arcadis  | Tel/Fax:                                   |                             |                                       |                   |               | Lab Contact: |                           |        |                               |       | Carrier: |               |                 |          |           |        |         | TALS Project #        |             |              |             |           |  |
| 126 N Jefferson St   | Α  | Analysis Turnaround Tin     |                                       |                   |               | П            |                           |        |                               |       |          | П             | T               | Π        | T         | T      |         |                       | Samp        | ler          |             |           |  |
| Milwaukee, WI 53202  | ☐ CALENDA                                  | ☐ CALENDAR DAYS ☐ WORKING   |                                       |                   | 5             |              |                           |        |                               |       |          |               |                 |          |           |        |         |                       | For L       | ab Use O     | nly:        |           |  |
| (xxx) xxx-xxxx Phone   | TAT  | TAT if different from Below |                                       |                   |               | Í            |                           | - 1    |                               |       | 1        | 11            |                 | 11       |           |        |         |                       | Walk-       | in Client    |             |           |  |
| (xxx) xxx-xxxx FAX   |  | 2                           | weeks                                 |                   |               | 2            | :                         |        |                               |       |          |               |                 |          |           |        |         |                       | Lab S       | ampling      |             |           |  |
| Project Name 3M Wausau   |  | 1                           | week                                  |                   |               | ۶ا≳          |                           |        |                               |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
| Site Wausau, WI  |  | 2                           | days                                  |                   |               | ) ek         | 2                         |        |                               |       |          |               |                 |          |           |        |         |                       |             | SDG No       |             |           |  |
| P O # 30087606 00001   |  | 1                           | day                                   |                   |               | E O          |                           |        |                               |       |          |               | - [             |          |           |        |         |                       | 5           | 00-          | <u> 208</u> | 74        | <u> 32                                    </u> |
| Completed at the state of the s | Sample<br>Date                             | Sample<br>Time              | Sample<br>Type<br>(C=Comp,<br>G=Grab) | 80-4-1            | # of<br>Cont. | iltered S    | 45                        |        |                               |       |          |               |                 |          |           |        |         |                       |             | Camania.     | Cifia       | Natas     |  |
| Sample Identification  | Vale                                       | illie                       | G=Grab)                               | Matrix            | COIIL.        | <u> </u>     |                           | =      | +                             | +     | +        | $\vdash$      | +               | +        | +         | +      | +-      | +                     | +           | Sample       | Specific    | Notes     | 3  |
| (DUP-01 (111221)   | 11/12/21                                   | ( Mariana and )             | G                                     | 2                 |               | NN           | X                         |        |                               |       |          |               |                 |          |           |        |         |                       | 1           | 2001         | 150         | <u> </u>  | ٩  |
| DUP-02 (111221)  |  |                             |                                       |                   |               | Ш            |                           |        |                               |       |          |               |                 |          |           |        |         |                       | 1           | 1000         | 051         | te        |  |
| DUP-03 (11/221)  | V  |                             | V                                     | V                 | 4             | V            | 14                        |        | _ _                           |       |          |               |                 |          | _         |        | _       |                       | 10          | <u> مند</u>  | <u> </u>    | <u>at</u> | <u>e</u> _                                     |
|  |  |                             |                                       |                   |               | _            | +                         | _      | +                             | _     | _        |               | -               | $\vdash$ | _         | -      | $\perp$ |                       | -           |              |             |           |  |
|  |  |                             |                                       |                   |               | _            |                           |        | $\bot \bot$                   |       |          |               |                 |          | $\perp$   |        |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               | $\perp$      |                           |        | $\perp \downarrow \downarrow$ |       |          |               | _               |          | _         | _      |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               | $\perp$      | $\perp \downarrow$        |        | $\perp \downarrow$            |       |          |               |                 |          | _         | _      |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               | 1            | 1-1                       |        | 44                            |       |          |               |                 | $\sqcup$ | _         | $\bot$ |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               |              | $\perp \downarrow$        |        |                               |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               |              |                           |        |                               |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               |              |                           |        |                               |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
|  |  |                             |                                       |                   |               |              |                           |        |                               |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
| Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3;   | 5=NaOH; 6=                                 | Other _                     |                                       |                   |               | T            |                           |        |                               |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
| Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample  | se List any E                              | PA Waste                    | Codes for                             | the sam           | ole in the    | S            | ample                     | e Disp | oosal (                       | A fee | e may    | / be a        | ssess           | ed if    | sam       | ples   | are re  | etaine                | ed longe    | r than 1 m   | onth)       |           |  |
| Non-Hazard   | ☐ Poison B                                 |                             | ☐ Unkno                               | vn                |               | 丄            | ☐ Re                      | urn to | Client                        |       |          | Dispo         | sal by I        | ab       |           |        | Archiv  | e for                 |             | Months       |             |           |  |
| pecial Instructions/QC Requirements & Comments:  |  |                             |                                       |                   |               |              |                           |        |                               |       | -        |               |                 |          |           |        |         |                       |             |              |             |           |  |
| A state of the sta |  |                             |                                       | Ic.               | ooler T       | emn          | (°C)                      | Ohelo  |                               |       | Cor      | rr'd          |                 |          | Therm     | ID No  |         |                       |             |              |             |           |  |
| Custody Seats Intact: / /Yes   | Custody Seal No.  Company  Date/Time, 9 Ro |                             |                                       | eceive            |               |              | 311p                      | ( 0)   | <b>JD3</b> (                  |       | Com      |               |                 |          |           |        |         |                       |             |              |             |           |  |
|  | Company<br>Company                         | <u>c.O.s.</u>               |                                       | (//S/<br>Date/Tir | 2/ (0<br>ne   |              | eceive                    | 1      | vE                            | 7_    |          |               | Company Company |          |           |        | Date/   | Time<br>15-21<br>Time |             | 09           | 00          |           |  |
| Troiling diorica by  | Company                                    | A 11                        | 1-15-21                               |                   | <u> 700</u>   | -            |                           | 1      | ما                            |       |          |               |                 |          |           |        |         |                       |             |              |             |           |  |
| Relinquished by  | Company <sup>.</sup>                       |                             |                                       | Date/Tir<br>P     | ne<br>age 51  | R<br>1 bf    | Received in Valoratory by |        |                               | oth   | Company; |               |                 |          | Date/Time |        |         | l                     | 629         | 6/2021       |             |           |  |

Client: ARCADIS U.S., Inc.

Job Number: 500-208432-1

Login Number: 208432

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

| Creator: Scott, Sherri L   |        |         |
|--|--------|---------|
| Question   | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | True   |         |
| Sample custody seals, if present, are intact.  | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 4.8     |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |
|  |        |         |

Arcadis U.S., Inc. 126 North Jefferson Street, Suite 400 Milwaukee Wisconsin 53202 Phone: 414 276 7742

Fax: 414 276 7603 www.arcadis.com