

## Purpose

The purpose of this document is to provide an optional template format for consultants and responsible parties to demonstrate that the proposed management of solid waste material qualifies for a Wis. Admin. Code § NR 718.12 or NR 718.15 exemption and to request written approval of the request. This document may be included as part of an interim or remedial action plan (RAP) or post-closure modification request, or can be submitted by itself depending on the activities conducted at the site. Using this recommended format will likely result in a faster Department of Natural Resources (DNR) review. At a minimum, all requests must satisfy the requirements of a soil management plan as outlined in Wis. Admin. Code § 718.12 (1) and (2) (b).

## Introduction

Soil and other solid waste generated from a response action site as part of an interim or remedial action may be managed at a site or facility that is not an operating licensed landfill if an exemption from the Waste and Materials Management Program requirements established in Wis. Stat. ch. 289 and Wis. Admin. Code ch. NR 500 to NR 538 is obtained under Wis. Admin. Code §§ NR 718.12 or NR 718.15. An exemption through Wis. Admin. Code § NR 718.12 can be granted when soil is being managed as part of an interim action under Wis. Admin. Code ch. NR 708 or a remedial action under Wis. Admin. Code ch. NR 722. An exemption through Wis. Admin. Code § NR 718.15 can be granted when other solid waste material is managed as part of an interim or remedial action on the site from which it was generated. Managing solid waste material with either exemption requires prior written approval from the DNR. For more information see "Management of Contaminated Soil and Other Solid Wastes, Wis. Admin. Code §§ NR 718.12 and NR 718.15" (RR-060), by visiting [dnr.wi.gov](http://dnr.wi.gov), search "RR-060."

If this exemption request involves contaminated material impacted by a discharge of a hazardous substance that has not been reported to the DNR, a "Notification for Hazardous Substance Discharge (non-emergency)", DNR Form 4400-225, must be completed and submitted immediately as required by Wis. Admin. Code § NR 706, unless an alternate method of reporting is approved by the DNR. This form can be found by visiting [dnr.wi.gov](http://dnr.wi.gov), search "4400-225."

This template is not intended to be used for immediate actions under Wis. Admin. Code § NR 708.05, as prior DNR approval is not required if: 1) the requirements of Wis. Admin. Code § NR 718.12 (1) are met, 2) contaminant concentrations do not exceed Wis. Admin. Code ch. NR 720 soil residual contaminant levels, 3) and the quantity of material managed is less than 100 cubic yards total.

Requests to manage material under Wis. Admin. Code ch. NR 718 for projects involving large-scale disposal or requiring items such as a liner system, leachate treatment and an engineered cap, or projects proposing to place the material below the groundwater table, should not be requested using this template. Consult with DNR staff before submitting such a proposal

## Document Instructions

In order to expedite processing, complete all applicable sections of this document as instructed. **Fields/sections required by administrative code are marked with a red asterisk (\*)**. All other fields are optional and are included to assist DNR staff in gathering additional information to expedite review of the request.

Some portions of the document may be filled in directly as indicated, other responses may need to be completed separately and attached. If a field is not relevant, explaining why will further assist staff in reviewing the request.

In this document, "generating site or facility" means the site or facility where the response action is generating the contaminated material subject to this exemption request. "Receiving site or facility" means the site or facility where the contaminated material is proposed to be managed. The "receiving site or facility" may be the same site or facility as the generating site or facility, or it may be a different site or facility.

## Submittal Instructions

Please submit this form and related documents using the RR Program Submittal Portal at [dnr.wi.gov](http://dnr.wi.gov), search "RR Submittal Portal". All accompanying attachments should be combined into a separate PDF.

Per Wis. Admin. Code § NR 700.11, a hardcopy of the completed form, attachments and fees (if applicable) are required to be mailed to the DNR. Directions on where to send this information is detailed in the submittal confirmation.

**For questions on this form, please contact Judy Fassbender at [judy.fassbender@wisconsin.gov](mailto:judy.fassbender@wisconsin.gov).**

## Recommended Template for Request to Manage Materials under Wis. Admin. Code § NR 718.12 or NR 718.15

Form 4400-315 (R 05/19)

Page 2 of 12

### Section 1 – Purpose of Request

Identify the purpose of the request by checking each box that applies:

- Manage contaminated soil as part of an interim or remedial action or post-closure modification on the same response action site from which it was generated (Wis. Admin. Code §§ NR 718.12 (1) and (2)).
- Manage contaminated soil as part of an interim or remedial action or post-closure modification at a site or facility that is different from the response action site from which it was generated (Wis. Admin. Code §§ NR 718.12 (1) and (2)).
- Manage other solid waste other than contaminated soil, as part of a response action, at the same site from which it was generated (Wis. Admin. Code § NR 718.15).

If none of the above boxes are checked, the proposed materials management activity cannot be exempted from solid waste rules through Wis. Admin. Code ch. NR 718. Management of solid waste material generated as a result of a non-NR 700 action may be allowed after obtaining a “low hazard exemption” from the DNR Waste and Material Management Program. Please see the DNR publication “Exempting Low-Hazard Wastes from Solid Waste Regulations” (PUB-WA 1645), which can be found by visiting [dnr.wi.gov](http://dnr.wi.gov), search “WA1645.”

### Section 2 – Applicable Fees

Fees are assessed for each type of Wis. Admin. Code § NR 718.12 or NR 718.15 request (plus database fee) **per site or facility** where contaminated material is excavated or managed. The below tables are provided to assist you in calculating the appropriate Wis. Admin. Code § NR 749 fee required for the review of your submittal.

Identify the Wis. Admin. Code § NR 749 review fees for this submittal by checking the applicable “On-Site Management Fee” in section A, column D. If material will be managed at a site(s) or facility(ies) other than the response action site, also select the appropriate “Off-Site Management Fee” in section B, and indicate the number of applicable receiving sites in column E. Please send a single check to the regional office managing your request. Specific directions will be detailed in your submittal confirmation.

#### A. Fee Assessed to Excavate or Manage Soil or Other Solid Waste on the Generating Site or Facility

| A   | B          | C            | D  |
|---|------------|--------------|--|
| Action  | Action Fee | Database Fee | On-Site Mgmt Fee                           |
| MMP as part of Interim Action per NR 708.11, with residual soil CO              | \$700      | \$300        | <input type="checkbox"/> \$1000            |
| MMP as part of Interim Action per NR 708.11, without residual soil CO           | \$700      | No fee       | <input type="checkbox"/> \$700             |
| MMP as part of Remedial Action Plan approval, with residual soil CO             | \$1050     | \$300        | <input type="checkbox"/> \$1350            |
| MMP as part of a Remedial Action Plan approval without residual soil CO         | \$1050     | No fee       | <input type="checkbox"/> \$1050            |
| Closed Sites: MMP as part of a CO modification action, with residual soil CO    | \$1050     | \$300        | <input type="checkbox"/> \$1350            |
| Closed Sites: MMP as part of a CO modification action, without residual soil CO | \$1050     | No fee       | <input type="checkbox"/> \$1050            |
| MMP separate from RAP or CO mod, with residual soil CO                          | \$700      | \$300        | <input checked="" type="checkbox"/> \$1000 |
| MMP separate from RAP or CO mod, without residual soil CO                       | \$700      | No fee       | <input type="checkbox"/> \$700             |

#### B. Fee Assessed to Manage Soil on a Site or Facility other than the Generating Site or Facility

| A   | B          | C            | D                               | E                                      | F             |
|---|------------|--------------|---------------------------------|--|---------------|
| Action  | Action Fee | Database Fee | Off-Site Mgmt Fee               | # of receiving sites subject to action | Total for row |
| MMP as part of interim action, remedial action, modification to COs, etc., with residual soil CO    | \$700      | \$300        | <input type="checkbox"/> \$1000 |  |               |
| MMP as part of interim action, remedial action, modification to COs, etc., without residual soil CO | \$700      | No fee       | <input type="checkbox"/> \$700  |  |               |
| Total of Off-Site Management Fee  |            |              |                                 | \$0                                    |               |
| <b>Total of On-Site and Off-Site Management Fee</b>   |            |              |                                 | <b>\$1,000</b>                         |               |

- 1) **MMP** – A Material Management Plan submitted in accordance with Wis. Admin. Code §§ NR 718.12 (1) and (2) or NR 718.15.
- 2) **“With residual soil CO”** - site will have a residual soil continuing obligation (e.g. engineering control, cap, or cover) applied at the generating site or facility at the end of the applicable action; remedial action approval, or approval by an addendum to the closure letter.
- 3) **“Without residual soil CO”** - site that will not have a residual soil continuing obligation applied at the generating site or facility at the end of the applicable action.

**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 3 of 12

**Section 3 –Property and Contact Information**

**A. Information about the generating site or facility** (from which material is proposed to be excavated)

| BRRTS #(s) (include Materials Management #s and VPLE #s if assigned) | BRRTS Activity (Site) Name(s) | FID #(s)          |
|--|-------------------------------|-------------------|
| 0 2 - 3 8 - 5 8 0 6 9 4  | JCI/Tyco FTC (PFAS)           | 4 3 8 0 0 5 5 9 0 |
| 0 2 - 3 8 - 0 0 1 3 4 5  | JCI/Tyco FTC (VOCs)           | 4 3 8 0 0 5 5 9 0 |

**Response Action Site Address\*** (physical, not mailing address)

2700 Industrial Parkway

|                             |                           |  |
|-----------------------------|---------------------------|--|
| <b>City*</b><br>Marinette   | <b>State*</b><br>WI       | <b>Parcel ID #(s)</b><br>251-00615.000 |
| <b>County*</b><br>Marinette | <b>ZIP Code*</b><br>54143 |  |

|   |   |   |
|---|---|---|
| <b>WTM Coordinates*</b><br>X: 7 0 5 5 9 8<br>Y: 5 1 4 3 5 7 | <b>Lat/Long Coordinates</b> decimal degrees<br>(min. of 6 digits right of decimal, e.g., -89.123456)*<br>Lat: 45.078335<br>Long: -87.641931 | <b>Coordinates Represent:</b><br><input type="radio"/> Center of Project<br><input type="radio"/> Parcel Center |
|---|---|---|

|             |                    |                       |   |
|-------------|--------------------|-----------------------|---|
| ¼* SE ¼* SE | <b>Section*</b> 12 | <b>Township*</b> 30 N | <b>Range*</b> 23 <input checked="" type="radio"/> E <input type="radio"/> W |
|-------------|--------------------|-----------------------|---|

|                                      |  |
|--------------------------------------|--|
| <b>Current Zoning:</b><br>Industrial | <b>Current Land Use:</b><br>Industrial |
|--------------------------------------|--|

**B. Responsible Party (RP) of the generating site or facility**

*The Wis. Admin. Code §§ NR 718.12 or NR 718.15 approval will be issued to the Wis. Admin. Code NR 700 series responsible party identified below and to the owner of the receiving site or facility, if different than the generating site or facility. If there is more than one responsible party or property owner, include the information requested below for each.*

|   |  |                     |                           |
|---|--|---------------------|---------------------------|
| <b>Responsible Party (RP) Name*</b><br>Eric Bretl     | <b>Organization / Business Name</b><br>Tyco Fire Products LP |                     |                           |
| <b>Mailing Address*</b><br>1 Stanton Street           | <b>City*</b><br>Marinette                                    | <b>State*</b><br>WI | <b>ZIP Code*</b><br>54143 |
| <b>Phone # (include area code)*</b><br>(715) 735-7411 | <b>Email*</b><br>eric.bretl@jci.com                          |                     |                           |

**C. Property owner(s) information for generating site or facility if different than RP**

Check here if the property owner of the generating site or facility is different than the responsible party, and enter the property owner's information below.

|  |  |                    |                          |
|--|--|--------------------|--------------------------|
| <b>Property Owner Name(s)</b><br>Eric Bretl          | <b>Organization / Business Name</b><br>Tyco Fire Products LP |                    |                          |
| <b>Mailing Address</b><br>1 Stanton Street           | <b>City</b><br>Marinette                                     | <b>State</b><br>WI | <b>ZIP Code</b><br>54143 |
| <b>Phone # (include area code)</b><br>(715) 735-7411 | <b>Email</b><br>eric.bretl@jci.com                           |                    |                          |

**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 4 of 12

| <b>D. Consultant / contractor information</b> |                         |                                      |                         |
|---|-------------------------|--------------------------------------|-------------------------|
| <b>Consultant / Contractor Name*</b>          |                         | <b>Organization / Business Name*</b> |                         |
| Ben Verburg                                   |                         | Arcadis U.S., Inc.                   |                         |
| <b>Mailing Address*</b>                       |                         | <b>City*</b>                         | <b>State* ZIP Code*</b> |
| 126 North Jefferson Street, Suite 400         |                         | Milwaukee                            | WI 53202                |
| <b>Phone # (include area code)*</b>           | <b>Email</b>            |                                      |                         |
| (414) 276-7742                                | ben.verburg@arcadis.com |                                      |                         |

| <b>E. Contact information for questions about this request</b>            |                         |                                     |                       |
|---|-------------------------|-------------------------------------|-----------------------|
| <b>Contact Name</b>   |                         | <b>Organization / Business Name</b> |                       |
| Ben Verburg   |                         | Arcadis U.S., Inc.                  |                       |
| <b>Mailing Address</b>  |                         | <b>City</b>                         | <b>State ZIP Code</b> |
| 126 North Jefferson Street, Suite 400                                     |                         | Milwaukee                           | WI 53202              |
| <b>Phone # (include area code)</b>  | <b>Email</b>            |                                     |                       |
| (414) 276-7742  | ben.verburg@arcadis.com |                                     |                       |
| <b>Relationship to the Requestor (Same, Consultant, Developer, Etc.):</b> |                         |                                     |                       |
| Consultant  |                         |                                     |                       |

**Section 4 – Results of Analyses Performed and Characteristics of Waste**

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (1) (d) 1., NR 718.12 (2) (b) 2. and NR 718.12 (2) (b) 6. In this section, describe the characteristics of the contaminated soil and/or other solid waste material that will be managed under this plan, describe the sampling activities conducted and demonstrate how it has been adequately characterized. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

- A. Enter the total volume of contaminated soil and/or other solid waste to be managed (cubic yards) \*:
 

3,300
- B. Describe the characteristics of the material proposed to be managed,\* which may include general makeup, physical characteristics, the homogeneity of the material, the proportion of soil to other solid waste, and any other pertinent descriptors.
 

Surficial geology is primarily glacial lake deposits consisting of clay, silt, and sand. Excavated soil is the glacial lake sand unit, which generally consists of brown fine to medium sand interbedded with silt or silty-sand.
- C. Describe the historic and current land use of the generating site or facility where the contaminated soil or other solid waste originates, including how this site or facility is zoned.
 

The FTC is a fire suppressant training, testing, and research and development (R&D) facility occupying approximately 380 acres. The site is zoned industrial.
- D. Describe identified contaminants and the source(s). Indicate whether contaminant concentrations exceed Wis. Admin. Code § NR 720 Residual Contaminant Levels.
 

PFAS and VOCs are the primary constituents of concern in soil. The source of contamination was due to aqueous film-forming foams (AFFF) discharged at the Tyco fire training facility. There were no exceedances of industrial land use direct contact (DC) RCLs for PFOA and PFOS. No soil to groundwater pathway (GW) RCLs are established for PFOA and PFOS. Site-specific RCLs (SSRCLs) have been calculated based on the GW RCL pathway and are included along with analytical results of five nearby borings (Table 1). Three soil samples exceeded the PFOS SSRCL in the area of excavation. Low-level VOCs (TCE and Benzene) above the Wisconsin enforcement standard (ES) have been observed in groundwater samples collected in the vicinity of the excavation area. No soil VOC analytical data is available in the vicinity of the excavation. Figure 1 shows the soil sample locations found near the excavation areas.
- E. Describe the sampling activities conducted to characterize the material including where the samples were collected, how sample locations were chosen, the sampling methods used, and when sampling activities were conducted.
 

Soil samples were collected from borings at one foot intervals from the surface (0-1 ft bgs) and at depth (7-8 ft bgs). Locations were part of site investigation work to delineate contamination in and around the fire field training center. Sampling was conducted in June 2018 and July 2019.

Sampling activities associated with the June 2020 soil excavation described in Section 5.A below included stockpile



**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 5 of 12

characterization samples collected at a rate of one sample per 100 cubic yards for the first 600 cubic yards and one sample for each additional 300 cubic yards of material. Soil samples were analyzed for VOCs (USEPA Method 8260) and PFAS (36-analyte Wisconsin list)

- F. Explain how the sampling activities adequately characterized the contaminated soil or other solid waste proposed to be managed. Indicate whether the samples were analyzed for all contaminants previously identified at the generating site or facility and analyzed for all contaminants potentially present at the site or facility considering current and historic land use. Discuss how samples were collected from areas most likely to be contaminated and from material that will actually be managed under this exemption. Samples were collected from five borings in and around the excavation of Building 105 addition and down to eight feet, which is beyond the 5-6 ft expected depth of sub-grade. One sample was collected at the approximate center of the detention pond excavation at the surface. PFOS and PFOA were the only constituents analyzed. Currently there is no VOC data for the excavation areas, however, expected impacts are inferred from nearby groundwater concentrations. Further soil sampling for PFAS and VOCs is proposed.
- G. Enter the total number of samples collected from this material and analyzed for contaminants of concern.  
5
- H. Enter the rate of sample collection per volume. One sample per 300 yards of contaminated material.
- i. Wis. Admin. Code § NR 718.12(1)(e) requires that samples collected to characterize soil be collected at a rate of one sample per 100 cubic yards (for the first 600 cubic yards) and one sample for each additional 300 cubic yards of material, with a minimum of two samples. If the DNR pre-approved an alternative sampling plan, describe how the sampling that was conducted complied with a pre-approved plan. Please also provide the date the sampling plan was pre-approved and the name of the DNR staff person who approved the plan. The proposed soil sampling plan is consistent with NR718.12(1)(e). One soil sample was collected for the initial 100 CY (first 600 CY) and one soil sample per 300 CY.

**Section 5 – Project description/material management plan**

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (b) (5), (7) and (8). In this section, describe how the contaminated material will be managed, the proposed schedule for managing the material, and provide sufficient information to justify that the placement of the contaminated materials will meet the requirements of Wis. Admin. Code §§ NR 726.13 (1) (b) 1. to 5. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

- A. Describe the material management activities to take place.\* Provide details on how and where the material will be generated, transported and placed. Describe the depth of the proposed excavation of contaminated soil or other solid waste, and the depth that it will be placed at the receiving site or facility. Describe any response actions proposed for the receiving site or facility to address the relocated contaminated material (such as the construction of a cap). Discuss how material management activities will fit in with the overall property remediation and/or redevelopment plans. The construction project will require the excavation of approximately 3,300 CY of soil from subsurface. An overall site plan is attached as Sheet 2. Historical analytical results from soil samples collected within or near the excavation areas can be found in Table 1 and the sample locations can be found in Figure 1. Figure 2 presents the soil staging area. Groundwater dewatering will be performed because the water table is expected to be encountered at approximately 4 feet below the ground surface.

A desk top review of the location criteria was completed in early summer 2020. A potential small wetland was identified and a supplemental field survey was conducted. A Wetland and Waterbody Delineation Report was submitted to the WDNR by Ryan Bombeck (a 2020 Assured Wetland Delineator) in May 2020.

In accordance with the approval granted by the DNR on May 19, 2020 excavation began in June 2020 with stripping topsoil and separating into 100 CY piles for potential reuse. Excavation of sandy soil proceeded and was generated from building foundations, site grading and the initial cut for the stormwater pond. Additional soil will be generated during stormwater pond construction the week of July 27. As soil was excavated, Arcadis visually inspected for signs of impacts such as staining, debris and/or free product and olfactory detections. A photo ionization detector (PID) was utilized to screen soil at a frequency of once per 30 CY. Soil above 10 parts per million (ppm) or with visual/olfactory impacts were stockpiled separately.

Soil was staged on 10-mil poly liners with six inches of clean sand. The liners overlap the edges of the stockpile by at least one foot and contain a 12" berm around its perimeter. Once the stockpile was created, the pile is covered with 10-

**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 6 of 12

mil poly. Routine inspections are made to ensure the 10-mil poly cover remains in-place over the soil pile.

Stockpile characterization samples will be collected at a rate of one sample per 100 cubic yards for the first 600 cubic yards and one sample for each additional 300 cubic yards of material. Soil samples will be analyzed for VOCs (USEPA Method 8260) and PFAS (36-analyte Wisconsin list).

Contaminated soil is proposed to be placed in close proximity to the current staged location. The soil will be used to thin spread and construct a graded staging area for future remedial action equipment and materials, if necessary, this will allow for continued site operations during remedy implementation.

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B. Summarize the proposed schedule for implementation of the material management plan including anticipated start and end dates. \* The start date of the excavation was June 29, 2020 and is expected to continue through mid-August 2020. Soil samples will be collected in July and an updated MMP will be submitted in September 2020 once soil pile sample results are available and long-term management strategies developed and implemented. Upon approval, the soil will be graded, topsoil, and seed.

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C. Confirm the proposed material management will comply with Wis. Admin. Code § NR 726.13 (1) (b) 1. through 5.\* The soil will be staged pending final soil sampling and preparation of an updated MMP. The updated MMP will propose soil placement that does not 1. Pose a threat to public health, safety, or welfare or the environment. 2. Cause a violation of a ch. NR 140 groundwater quality enforcement standard at any applicable point of standards application, except where the department has granted an exemption under s. NR 140.28 for a specific hazardous substance or the criteria under s. NR 726.05 (6) are met. 3. Cause a violation of surface water quality standards in chs. NR 102 to 106. 4. Cause a violation of air quality standards contained in chs. NR 400 to 499. 5. Cause a vapor action level in indoor air to be attained or exceeded.

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D. Describe any procedures that have been established, or methods that will be used, to identify previously undocumented contamination during the completion of this project (such as instrument field screening, visual inspections, etc.). Also describe any contingency procedures that have been established to address unexpected contamination. Excavated soil will be visually inspected for impacts and tested with a PID once per 30 cubic yards. If unexpected impacts are discovered, we will collect a representative sample, segregate, submit the soil sample for comparison to the criteria, and if exceeding the applicable criteria, the material will be transported to a licensed landfill for proper disposal.

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E. Summarize how the proposed management activities will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety, by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management. An exclusion zone will be setup around the perimeter of each excavation. The exclusion zone will be monitored occasionally with a PID. Excavator and truck operators will have a 4-gas meter inside their machinery to monitor for VOCs and other harmful gases. The excavation will be inspected prior to the commencement of work each day. Proper sloping techniques or shielding methods will be used on all excavations 4' or deeper. Daily health and safety tailgates will be required and a sign-in sheet will be utilized to keep track of workers entering the excavation area.

Groundwater removed during dewatering activities will be treated prior to surface discharge.

**Section 6 - Receiving site or facility information**

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (c) 3. In this section, describe the site or facility receiving the material by addressing the following items. Narrative boxes have a limit of 2500 characters. Please attach additional pages if necessary, clearly labeling the section of the form to which you are responding.

**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 7 of 12

- A. Briefly discuss the geology and hydrogeology of the receiving site(s) or facility(ies), including information from any previous remedial investigations, and well logs or well construction records from nearby wells. Please also provide the information requested below, indicating whether the response is based on regional or site-specific information. \*
- The FTC is the proposed receiving site. A receiving disposal facility is not proposed at this time.

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Depth to Bedrock (ft. below ground surface): 35       Regional       Site Specific  
Bedrock Type:       Sandstone       Limestone / Dolomite       Metamorphic / Igneous  
High Groundwater Level (ft. below ground surface): 4       Regional       Site Specific  
Groundwater Flow Direction: Northeast       Regional       Site Specific

- B. Briefly describe any previous environmental site investigations or remedial actions conducted at the receiving site(s) or facility(ies). Describe the environmental condition of the portion of the receiving site(s) or facility(ies) where material will be placed including what contaminants are present, the environmental sampling conducted in that area, and whether identified contaminant concentrations exceed applicable standards. \*
- No receiving facility has been proposed other than the site at this time.

- 
- C. Describe any environmentally sensitive areas at or near the receiving site(s) or facility(s) where the contaminated material will be managed.
- Tyco owns, operates, and has investigated and found no environmentally sensitive areas at the FTC site.

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- D. Describe the historic, current and proposed land use of the receiving site(s) or facility(ies) where the contaminated soil or other solid waste will be managed. How are these site(s) or facility(ies) zoned?
- Tyco owns and operates the FTC site.

- 
- E. Identify current uses of all properties adjacent to the receiving site or facility. Check all that apply.

|              |                                     |   |                                     |   |                                     |   |                                     |   |                          |    |                          |    |                          |    |                          |    |
|--------------|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|--------------------------|----|--------------------------|----|--------------------------|----|--------------------------|----|
| Agricultural | <input type="checkbox"/>            | N | <input type="checkbox"/>            | S | <input type="checkbox"/>            | E | <input type="checkbox"/>            | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |
| Industrial   | <input checked="" type="checkbox"/> | N | <input type="checkbox"/>            | S | <input type="checkbox"/>            | E | <input type="checkbox"/>            | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |
| Recreational | <input type="checkbox"/>            | N | <input type="checkbox"/>            | S | <input checked="" type="checkbox"/> | E | <input type="checkbox"/>            | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |
| Residential  | <input type="checkbox"/>            | N | <input type="checkbox"/>            | S | <input checked="" type="checkbox"/> | E | <input type="checkbox"/>            | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |
| Undeveloped  | <input type="checkbox"/>            | N | <input checked="" type="checkbox"/> | S | <input type="checkbox"/>            | E | <input type="checkbox"/>            | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |
| Commercial   | <input checked="" type="checkbox"/> | N | <input type="checkbox"/>            | S | <input type="checkbox"/>            | E | <input checked="" type="checkbox"/> | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |
| Other        | <input checked="" type="checkbox"/> | N | <input checked="" type="checkbox"/> | S | <input type="checkbox"/>            | E | <input type="checkbox"/>            | W | <input type="checkbox"/> | NE | <input type="checkbox"/> | NW | <input type="checkbox"/> | SE | <input type="checkbox"/> | SW |

Describe "other" property use below:

South includes medical center and sheriff's office. North-northeast is a high school.

- 
- F. Describe any other features of this property not addressed above that influence the suitability of the receiving site(s) or facility(ies) for the disposal of the contaminated soil or other solid waste.
- Not Applicable.

**Section 7 – Locational criteria**

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (1) (c). Indicate if excavated material will be placed in any of the following locations\*:

Within a floodplain.

**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 8 of 12

- Within 100 feet of any wetland or critical habitat area.
- Within 300 feet of any navigable river, stream, lake, pond, or flowage.
- Within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well.
- Within three (3) feet of the high groundwater level.
- At a depth greater than the depth of the original excavation from which the contaminated soil was removed.

If any of the above boxes are checked, an exemption from the indicated criteria must be requested as described below. If none of the above boxes are checked, and the proposed placement of material will not otherwise pose a threat to the public health, safety, or welfare or the environment, the proposed management activities will comply with the location criteria of Wis. Admin. Code § NR 718.12 (1) (c) and you may skip the following question.

Include an explanation of why granting an exemption to the Wis. Admin. Code § NR 718.12 (1) (c) locational criteria will not cause a threat to public health, safety, or welfare or the environment by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management. Consider the quantity and characteristics of the material being managed, the geologic and hydrogeological characteristics of the receiving site or facility, the unavailability of other environmentally suitable alternatives, and whether the activities will comply with other state and federal regulations including other portions of Wis. Admin. Code chs. NR 700 to NR 754.

**Section 8 – Additional information for non-metallic mine receiving sites or facilities**

If the material to be managed is proposed for use in reclaiming a non-metallic mine, the disposal of such a material must be specifically allowed in the mine's reclamation plan. If not, the reclamation plan needs to be modified prior to DNR approving the management of the contaminated soil at the mine. Complete this section if the proposed receiving site or facility is a non-metallic mine.

A. Current depth to groundwater at facility (feet below ground surface): \_\_\_\_\_

B. Has the facility been dewatered to allow mining?  Yes  No

If yes, indicate the expected natural groundwater level when dewatering is terminated (feet below ground surface):

C. Is material proposed to be placed within 10 feet of the natural water table?  Yes\*  No

If yes, provide information to justify a variance approval under Wis. Admin. Code ch. NR 503.

D. Include a copy of the reclamation plan indicating the placement of low level contaminated material is acceptable.

E. Describe any design criteria established for the disposal site, include restrictions on material placement, engineered barrier requirements, etc.

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**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 9 of 12

**Section 9 – Continuing obligations at receiving site or facility**

The following information is necessary for the DNR to review the request for compliance with Wis. Admin. Code §§ NR 718.12 (2) (d) and (e). Check the applicable boxes to indicate which continuing obligations will be specifically required to address the material being managed on the receiving site or facility. The associated language will appear in the Wis. Admin. Code ch. NR 718 Approval Letter.

No Continuing Obligations

Residual Soil Contamination:

If contaminated soil managed under this material management plan is excavated in the future, the property owner at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Contaminated soil may be managed in accordance with Wis. Admin. Code ch. NR 718, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose a hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans. A historic fill exemption is required prior to construction of any structures over fill materials.

Depending on site-specific conditions, construction over contaminated soils or groundwater may also result in vapor migration of contaminants into enclosed structures or migration along underground utility lines. The potential for vapor intrusion and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Maintenance of a cover:

A soil cover/engineered cover/other has been placed over remaining contamination and this cover must be maintained. Inspections will be required, and submittal of inspection reports may be required. Certain activities which would disturb the cover or barrier will be prohibited. If the cover is approved for industrial land use, notification of the DNR is required before changing to a non-industrial use, to determine if the cover will be protective for that use. A maintenance plan is attached, which describes the maintenance activities to be required. If the DNR requires changes to the maintenance plan, an updated maintenance plan must be provided at the completion of the soil disposal action. A map is attached which shows the location of the extent of contaminated materials and the extent of the cover.

Use of Industrial Land Use Soil Standards:

Industrial soil standards have been applied for the site receiving the contaminated materials. The DNR must be notified if the property land use will change from industrial use to a non-industrial land use. Additional investigation and remediation may be required prior to the change in land use to ensure the site conditions are protective for the planned land use.

Vapor: Future Actions to Address Vapor Intrusion:

While vapor intrusion does not currently exist, if a building is constructed on this property, or reconstructed, or if use of a building is changed to a non-industrial use, vapor intrusion may be a concern. The DNR must be notified before construction of a building or changing the use of an existing building to non-industrial use. The use of vapor control technologies or an assessment of the potential for vapor intrusion will be required at that time.

Site specific condition:

Describe the site specific condition:

The site will continue to operate as a designated manufacturing/testing facility, with on-site treatment of impacted groundwater. Soil placed on-site will be monitored for signs of runoff, with regular inspections and maintenance of cover.



## Recommended Template for Request to Manage Materials under Wis. Admin. Code § NR 718.12 or NR 718.15

Form 4400-315 (R 05/19)

Page 10 of 12

### Section 10 – Figures

Providing figures as part of the material management plan will allow DNR staff to more quickly evaluate the compliance of the request with the requirements of Wis. Admin. Code §§ NR 718.12 (1) and (2) and NR 718.15. The following are recommended figures to be submitted with this request.

The DNR recommends that all maps are drawn to scale not larger than 1 inch equal to 100 feet and labeled with the site or facility name and address. The location of the property and the specific disposal area should be provided in sufficient detail to allow DNR personnel to inspect these areas in the future. Providing a “cut/fill” map that clearly depicts how much material will be removed or added to different areas of the involved property(ies) and depicting how material will be moved across the site is also highly recommended. Providing cross sections that depict site conditions before and after material management activities is also recommended.

Attach appropriate figures to this form. Use the following checklist to ensure recommended items are included in the attached figures.

- The boundaries of each property involved in the project as well as named and unnamed roads or access points, buildings and other surface features, underground utilities, land uses on adjacent properties, and known and potential sources of hazardous substances.
- The location of wetlands, critical habitat areas, floodplains, surface water bodies, water supply wells, or other possible receptors located near or within the area where material will be managed.
- The lateral extent and depth of planned excavation, grading, or otherwise disturbed areas.
- The lateral extent and thickness of excavated material placement locations.
- Soil sample locations at the response action site and receiving site(s) or facility(ies). Depict applicable soil contaminant concentration data and sample depths. Indicate the extent of contamination exceeding a RCL.
- Depth to groundwater.
- The extent of any performance standards (such as a barrier or cap) that will be required at the completion of management activities.

### Section 11 - Additional Attachments

The following documents are recommended for inclusion with a Wis. Admin. Code § NR 718.12 or a Wis. Admin. Code § 718.15 request. Indicate which of these documents are included in this request by checking the boxes below.

- A table summarizing the analytical results of all soil/waste samples collected at the generating site or facility that meets the requirements of Wis. Admin. Code § 716.15 (4) (e). Clearly indicate which of these samples were collected from material that is proposed to be managed.
- The analytical package for all samples listed on the above table. The package should include the sample results, chain of custody, sampling methods, and QA/QC data.
- A maintenance plan for any performance standard needed to address the material proposed to be managed. The plan should follow the format found in DNR Form 4400-202, Attachment D.
- A copy of the reclamation plan for the receiving site or facility if it is a nonmetallic mine. Confirm the plan allows for acceptance of contaminated soil by marking relevant plan sections.
- Power of Attorney (if applicable, see Section 12).
- Deed for the property receiving the contaminated material. If a certified survey map or plat map is referenced by this deed then also include those documents.
- Provide a copy of a parcel map depicting the property(ies) boundaries.

**Recommended Template for Request to Manage Materials  
under Wis. Admin. Code § NR 718.12 or NR 718.15**

Form 4400-315 (R 05/19)

Page 11 of 12

**Section 12 - Certification Statements**

Wis. Admin. Code ch. NR 712, entitled "Personnel Qualifications for Conducting Environmental Response Actions," establishes minimum standards for experience and professional qualifications for persons who perform certain environmental services. All exemption requests submitted to manage contaminated soil or other solid waste as an interim action or remedial action under Wis. Admin. Code chs. NR 708 or NR 722 must be prepared by, or prepared under, the supervision of a professional engineer per Wis. Admin. Code ch. NR 712. The professional engineer who prepared or supervised this exemption request should complete the following section. This law applies to work conducted under Wis. Admin. Code ch. NR 718, unless specifically exempted.

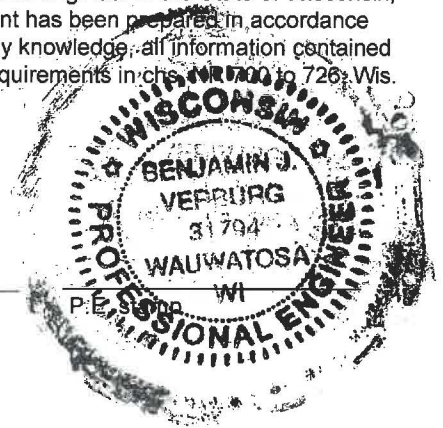
Per Wis. Admin. Code § NR 712.09 (3) (a), the following certification shall be attached to any submittal that is required to be prepared by, or under the supervision of, a professional engineer under s. NR 712.07 (2), (3) or (5):

"I, Ben Verburg, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



Principal Engineer, 31794-006

Signature, title and P.E. number



In addition, if the work certified included investigation or evaluation of groundwater conditions, or groundwater related conclusions or recommendations, Wis. Admin. Code § NR 712.09 (3) (b) requires the following certification shall be attached to any submittal that is required to be prepared or to have its preparation supervised by a certified hydrogeologist under s. NR 712.07 (2), (4) or (5):

"I, \_\_\_\_\_, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Signature and title

Date



Table 1  
Excavation Area Soil Results  
Tyco Fire Products LP  
2700 Industrial Parkway South  
Marinette, Wisconsin 54143

| Chemical Name  | Location     |     | SS-123    |         | SS-125    |         | SS-126    |         | SS-127    |         | SS-138    |
|--|--------------|-----|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
|  | Sample Date  |     | 6/29/2018 |         | 6/29/2018 |         | 6/29/2018 |         | 6/29/2018 |         | 7/16/2019 |
|  | Depth (feet) |     | 0-1       | 7-8     | 0-1       | 7-8     | 0-1       | 7-8     | 0-0.5     | 7-8     | 0.5-1.5   |
| Industrial SSRCL<br>DC RCL (Note 1)                    |              |     |           |         |           |         |           |         |           |         |           |
| Ethyl Perfluorooctane Sulfonamidoacetic Acid (EtFOSAA) | ---          | --- | < 0.39    | < 0.44  | < 0.44    | < 0.46  | < 0.44    | < 0.44  | < 0.39    | < 0.44  | <0.44 U   |
| Methylperfluorooctane Sulfonamidoacetic Acid (MeFOSAA) | ---          | --- | < 0.41    | < 0.46  | < 0.46    | < 0.48  | < 0.47    | < 0.46  | < 0.41    | < 0.47  | <0.46 U   |
| Perfluorobutane sulfonic acid (PFBS)                   | ---          | --- | < 0.026   | < 0.029 | < 0.030   | < 0.031 | < 0.030   | < 0.030 | < 0.027   | < 0.030 | <0.029 U  |
| Perfluorodecanoic acid (PFDA)                          | ---          | --- | 2.0       | 0.44    | 1.7       | 0.052   | 1.4       | 0.071   | 0.56      | 0.11    | 0.045 J   |
| Perfluorododecanoic acid (PFDoA)                       | ---          | --- | 1.4       | < 0.079 | 0.23      | < 0.083 | 0.12      | < 0.079 | 0.74      | < 0.080 | <0.079 U  |
| Perfluoroheptanoic acid (PFHpA)                        | ---          | --- | 0.53      | 0.11    | 2.1       | 0.062   | 0.75      | 0.24    | 0.46      | 0.49    | 0.85      |
| Perfluorohexane sulfonic acid (PFHxS)                  | ---          | --- | < 0.033   | < 0.037 | 0.31      | < 0.038 | 0.062     | < 0.037 | 0.091     | < 0.037 | <0.036 U  |
| Perfluorohexanoic acid (PFHxA)                         | ---          | --- | 3.1       | 1.2     | 3.2       | 0.37    | 1.4       | 0.33    | 0.89      | 0.72    | 0.46      |
| Perfluorononanoic acid (PFNA)                          | ---          | --- | 0.53      | 0.25    | 7.8       | < 0.044 | 2.9       | 0.49    | 0.34      | 0.26    | 0.52      |
| Perfluorooctanesulfonic acid (PFOS)                    | 16400        | 0.9 | 0.41      | 0.6     | 6.5       | < 0.25  | 5.8       | 6.9     | 0.38      | 0.33    | 0.59      |
| Perfluorooctanoic acid (PFOA)                          | 16400        | 5.0 | 2.0       | 0.15    | 5.0       | < 0.11  | 1.4       | 0.41    | 1.8       | 0.35    | 0.82      |
| Perfluorotetradecanoic acid (PFTeA)                    | ---          | --- | 0.60      | < 0.064 | 0.068     | < 0.067 | < 0.065   | < 0.064 | 0.27      | < 0.065 | <0.064 U  |
| Perfluorotridecanoic acid (PFTriA)                     | ---          | --- | 0.56      | < 0.060 | 0.31      | < 0.063 | < 0.061   | < 0.060 | < 0.054   | < 0.061 | <0.060 U  |
| Perfluoroundecanoic acid (PFUnA)                       | ---          | --- | 2.1       | < 0.042 | 0.97      | < 0.044 | 0.43      | < 0.043 | 1.4       | 0.053   | <0.042 U  |

**Acronyms and Abbreviations:**

Analytical results are concentrations in micrograms per kilogram

--- Criteria not established.

Italics numbers denote an exceedance of the SSRCL.

DC - Direct Contact

RCL - Residual contaminant level

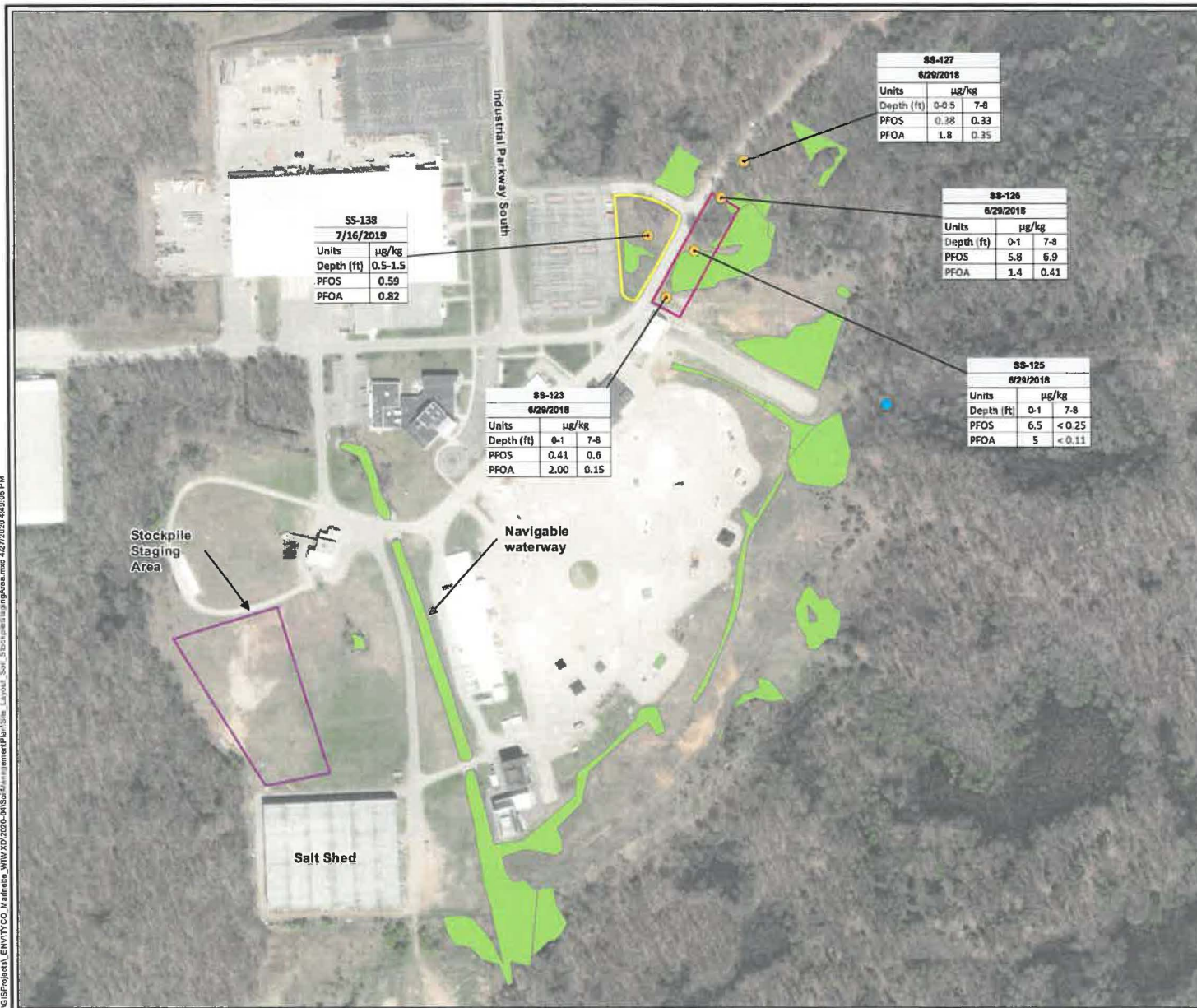
SSRCL - Site-specific RCL

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

<sup>1</sup> SSRCLs calculated using methods presented in Wisconsin Department of Natural Resources (WDNR) 2003; RCLs calculated as mean ratio of total contaminant in the soil to the leached concentration multiplied by the enforcement standard for groundwater (20 parts per trillion [ppt] for PFOA and 20 ppt PFOS).



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**LEGEND:**

- SOIL SAMPLE LOCATION
- PROPOSED DISCHARGE LOCATION
- StockPileStagingArea
- BUILDING EXCAVATION AREA
- DETENTION POND EXCAVATION AREA
- EXISTING WETLANDS



**NOTES:**

1. IMAGERY SOURCE: 4/27/2016, DIGITALGLOBE, VIVID - USA.
2. EXPECTED DEPTH OF EXCAVATION FOOTPRINT TO BE APPROXIMATELY 2 FEET. EXPECTED DEPTH OF FOUNDATION AND FOOTINGS TO BE APPROXIMATELY 4 FEET.
3. EXPECTED DEPTH OF DETENTION POND TO BE MAXIMUM 8 FEET.
4. ESTIMATED DEPTH TO GROUNDWATER 2-5 FEET.
5. TYCO COORDINATED WITH WENR AND USACE AND RECEIVED APPROVAL PRIOR TO ANY WETLAND DISTURBANCE.

TYCO FIRE PRODUCTS LP  
MARINETTE, WISCONSIN

**SITE LAYOUT  
WITH STOCKPILE STAGING AREA**

**ARCADIS** | FIGURE  
**1**

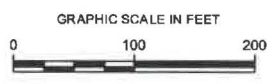


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**LEGEND:**

-  Stock Pile Staging Area
-  25 FT DIAMETER STOCKPILE
-  37 FT DIAMETER STOCKPILE
-  EXISTING WETLANDS



**NOTES:**

1. IMAGERY SOURCE: 4/27/2016, DIGITALGLOBE, VIVID - USA.
2. EXPECTED DEPTH OF EXCAVATION FOOTPRINT TO BE APPROXIMATELY 2 FEET. EXPECTED DEPTH OF FOUNDATION AND FOOTINGS TO BE APPROXIMATELY 4 FEET.
3. EXPECTED DEPTH OF DETENTION POND TO BE MAXIMUM 8 FEET.
4. ESTIMATED DEPTH TO GROUNDWATER 2-5 FEET.

|   |             |
|---|-------------|
| TYCO FIRE PRODUCTS LP<br>MARINETTE, WISCONSIN   |             |
| SITE LAYOUT<br>WITH STOCKPILE STAGING AREA<br>AND STOCKPILES                          |             |
|  | FIGURE<br>2 |

