

## Beggs, Tauren R - DNR

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**From:** Beggs, Tauren R - DNR  
**Sent:** Friday, January 19, 2024 1:14 PM  
**To:** Cull, Whitney  
**Cc:** Byers, Harris; Knapke, Eric; Adam Tegen  
**Subject:** RE: REVISED Construction Documentation Reports – River Point Drive & Buffalo Street, Manitowoc, WI

Thanks Whitney

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Tauren R. Beggs**

Phone: (920) 510-3472

[Tauren.Beggs@wisconsin.gov](mailto:Tauren.Beggs@wisconsin.gov) (preferred contact method during work at home)

---

**From:** Knapke, Eric <Knapke.Eric@epa.gov>  
**Sent:** Friday, January 19, 2024 12:51 PM  
**To:** Cull, Whitney <Whitney.Cull@stantec.com>; Adam Tegen <ategen@manitowoc.org>; Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>  
**Cc:** Byers, Harris <Harris.Byers@stantec.com>  
**Subject:** RE: REVISED Construction Documentation Reports – River Point Drive & Buffalo Street, Manitowoc, WI

Thanks for the clarification. I have saved these to the appropriate grant files.

Thanks,  
Eric

---

**From:** Cull, Whitney <Whitney.Cull@stantec.com>  
**Sent:** Friday, January 19, 2024 11:22 AM  
**To:** Knapke, Eric <Knapke.Eric@epa.gov>; Adam Tegen <ategen@manitowoc.org>; Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>  
**Cc:** Byers, Harris <Harris.Byers@stantec.com>  
**Subject:** REVISED Construction Documentation Reports – River Point Drive & Buffalo Street, Manitowoc, WI

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good morning Eric,

**Thank you** for pointing out the grant and cooperative agreement language. To that end, we have the following edits (highlighted below) to the second paragraphs of each of those documents. Note that these reports were completed as part of **two, separate grants**:

**Buffalo Street Right of Way:** This Construction Documentation Report was completed on behalf of the City of Manitowoc (the City) Community Development Authority (CDA) using funds from a brownfield cleanup grant awarded to the CDA by the United States Environmental Protection Agency (USEPA) on **September 29, 2022. The USEPA Brownfields Cooperative Agreement Number is BF00E03197.**

**River Point Drive Right of Way:** This Interim Construction Documentation Report was completed on behalf of the City of Manitowoc (the City) Community Development Authority (CDA) using funds from a brownfield cleanup grant awarded to the CDA by the United States Environmental Protection Agency (USEPA) on September 30, 2023. **The USEPA Brownfields Cooperative Agreement Number** is 4B00E03573.

I apologize for these typos. For clarity, I have attached an updated copy of each of these reports with today's date – January 19, 2024.

Apart from the above (grant language, date), no other changes were made to the content of the attached. @Beggs, Tauren R - DNR: Please replace the versions submitted via the portal with the attached, for continuity with USEPA program records.

Thank you, and have a wonderful weekend!

### Whitney Cull

Stantec  
Geological Engineer in Training  
Mobile: (262) 219 - 4740

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**From:** Knapke, Eric <[Knapke.Eric@epa.gov](mailto:Knapke.Eric@epa.gov)>  
**Sent:** Friday, January 19, 2024 9:20 AM  
**To:** Cull, Whitney <[Whitney.Cull@stantec.com](mailto:Whitney.Cull@stantec.com)>; Adam Tegen <[ategen@manitowoc.org](mailto:ategen@manitowoc.org)>  
**Cc:** Byers, Harris <[Harris.Byers@stantec.com](mailto:Harris.Byers@stantec.com)>; Beggs, Tauren R - DNR <[Tauren.Beggs@wisconsin.gov](mailto:Tauren.Beggs@wisconsin.gov)>  
**Subject:** RE: Interim Construction Documentation Report – River Point Drive Rights of Way, Manitowoc, WI

You don't often get email from [knapke.eric@epa.gov](mailto:knapke.eric@epa.gov). [Learn why this is important](#)

Hello all,

Thanks for sending these—nice to see the work done at the River Point District. I just have one minor edit to suggest for both construction reports (River Point Dr. ROW, Buffalo St. ROW). In the second paragraph of each document, please refer to the correct EPA grant: instead of an assessment grant, both have been funded under a **cleanup** grant, No. **4B00E03573**. Just want to make sure we have proper documentation, especially since Manitowoc has multiple EPA brownfields grants, including both cleanup and assessment grants.

Thanks,

**Eric Knapke, MPH**  
*Brownfields Project Manager*  
U.S. Environmental Protection Agency, Region 5  
77 W. Jackson Blvd  
Chicago, IL 60604  
312-353-6292  
[knapke.eric@epa.gov](mailto:knapke.eric@epa.gov)

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## REGION 5

CHICAGO, IL 60604

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**From:** Cull, Whitney <[Whitney.Cull@stantec.com](mailto:Whitney.Cull@stantec.com)>

**Sent:** Thursday, January 18, 2024 5:33 PM

**To:** Adam Tegen <[ategen@manitowoc.org](mailto:ategen@manitowoc.org)>; Beggs, Tauren R - DNR <[Tauren.Beggs@wisconsin.gov](mailto:Tauren.Beggs@wisconsin.gov)>; Knapke, Eric <[Knapke.Eric@epa.gov](mailto:Knapke.Eric@epa.gov)>

**Cc:** Byers, Harris <[Harris.Byers@stantec.com](mailto:Harris.Byers@stantec.com)>

**Subject:** Interim Construction Documentation Report – River Point Drive Rights of Way, Manitowoc, WI

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello all,

The attached Interim Construction Documentation Report summarizes the redevelopment work completed in Fall 2023 in the River Point Drive Rights of Way and adjoining future mixed-use multi-family residential and commercial parcels at the River Point District in Manitowoc, Wisconsin. Associated tasks performed to date include monitoring well abandonment, and sitewide grading.

Tauren – this report was also uploaded through the WDNR portal for your records, for tracking under BRRTS # 02-36-585491.

Thank you,

**Whitney Cull**

Geological Engineer in Training

Mobile: (262) 219 - 4740



**We've moved, but just across the street! Please note our new address, effective 5/23/2022:**

Stantec

12080 Corporate Parkway Suite 200

Mequon WI 53092-2649

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Stantec Consulting Services Inc.  
12080 Corporate Parkway, Suite 200 Mequon WI 53092

January 19, 2024  
File: 193709832

**Attention: Mr. Adam Tegen**  
Community Development Director  
900 Quay Street  
Manitowoc, WI 54220  
(920) 686-6931

Dear Mr. Adam Tegen,

**Reference: Interim Construction Documentation Report – River Point Drive Rights of Way and Adjacent Future Multi-Family Residential and Commercial Parcels, Phase II Redevelopment Area, River Point District; Manitowoc, Wisconsin  
BRRTS ID: 02-36-585491 (Open ERP)**

This Interim Construction Documentation Report summarizes the redevelopment work completed in Fall 2023 in the River Point Drive rights of way and adjoining future mixed-use multi-family residential and commercial parcels (herein referred to as the “Project Area”) within the Phase II Redevelopment Area at the River Point District in Manitowoc, Wisconsin. The location of the Project Area, the Phase II Redevelopment Area, and the greater River Point District are outlined in black, green, and yellow, respectively, on **Figure 1** and **Figure 2**. Proposed engineered barrier features for the Project Area are illustrated on **Figure 3**. Environmental investigation history for the Project Area is tracked under Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) case number 02-36-585491.

This Interim Construction Documentation Report was completed on behalf of the City of Manitowoc (the City) Community Development Authority (CDA) using funds from a brownfield cleanup grant awarded to the CDA by the United States Environmental Protection Agency (USEPA) on September 30, 2023. The USEPA Brownfields Cooperative Agreement Number is 4B00E03573.

## BACKGROUND

Residual environmental impacts are present in the Phase II Redevelopment Area associated with the placement of fill in the late 19<sup>th</sup> Century and the release(s) of hazardous substances and/or petroleum by multiple prior owners/tenants, as summarized in the Stantec (2019) Phase I Environmental Site Assessment (ESA).

**Soil Impacts.** The most significant soil impacts at the Property, according to the Stantec (2023a) Site Investigation Report, primarily consist of polycyclic aromatic hydrocarbons (PAHs) and Resource Conservation and Recovery (RCRA) metals associated with black granular fill materials extending across the River Point District, as depicted on **Figure 4**. Less significant soil impacts include petroleum volatile organic compounds (PVOCs) and chlorinated VOCs (CVOCs). These contaminants of concern (COCs) exceed direct contact and/or soil to groundwater NR 720 Wisconsin Administrative Code (WAC) Residual Contaminant Levels (RCLs), as depicted on **Figure 5**.

Reference: Interim Construction Documentation Report – River Point Drive Rights of Way and Adjacent Future Multi-Family Residential and Commercial Parcels, Phase II Redevelopment Area, River Point District; Manitowoc, Wisconsin

**Groundwater Impacts.** In groundwater, COCs consist of PVOCs and CVOCs exceeding NR 140 WAC Enforcement Standards (ESs) and/or Preventative Action Limits (PALs). The extents of groundwater impacts exceeding established NR 140 WAC standards are illustrated on **Figure 6**.

**Vapor Intrusion.** There are currently no structures within the Project Area. Redevelopment within the Project Area includes public road rights of way (ROW) and associated greenspace which will be owned and maintained in perpetuity by the City (**Figure 3**). Therefore, vapor does not represent a threat to human health or the environment in the ROW. The Project Area also includes portions of adjoining land targeted for multi-family residential and commercial redevelopments. Sub-slab depressurizations systems will be designed/installed beneath future multi-family residential and commercial buildings constructed in the Project Area (and elsewhere within the Phase II Redevelopment Area) to mitigate the risk from vapor intrusion.

## PROJECT AREA CONSTRUCTION ACTIVITIES

As described below, remedial activities were completed in Fall 2023 and consisted of two primary tasks performed in accordance with the Stantec (2023b) RAP/MMP; a photographic log of Project Area activities performed in 2023 is provided in **Attachment A**.

**Task 1. Monitoring Well Abandonment.** Between March 2020 and October 2023 and in accordance with ch. NR 141 WAC, four temporary monitoring wells (TW-31, TW-32, TW-295, and TW-300) and ten permanent monitoring wells (MW-2, MW-4, MW-5, MW-6, MW-151, MW-153, MW-301, MW-303, MW-304, and MW-305) were abandoned in areas where the wells would otherwise be disturbed or lost as part of upcoming redevelopment activities (refer to **Figure 3**). At a minimum, the top five feet of well casing was completely removed from each well and sealed using bentonite chips, with the entire screen and casing being removed in several instances. Well abandonment forms are included in **Attachment B**.

- Note: Eleven monitoring wells (MW-135, MW-136, MW-140, MW-143, MW-144, MW-149, MW-154, MW-155, MW-156, MW-166, and MW-298) were destroyed as part of grading and construction equipment staging in or directly adjacent to the Project Area in Fall 2023 prior to abandonment. The eleven missing wells are depicted in purple on **Figure 3**. Stantec will attempt to relocate and appropriately abandon these eleven wells in Spring 2024 prior to final Project Area grading/capping, and will document these efforts in a future Construction Documentation Report. If not found, these wells will represent a continuing obligation at the time of future BRRTS case closure due to improper abandonment. The wells will need to be abandoned in accordance with ch. NR 141 WAC if they are encountered in the future (ex. during future utility work).

**Task 2. Initial Grading of Project Area (2023).** In Fall 2023, approximately 12,500 cubic yards of fill material previously characterized by Stantec (2023c,d) and approximately 7,500 cubic yards of crushed quarry/granular material previously characterized by Stantec (2023e) and was placed/compacted in the Project Area to construct a soil engineered barrier suitable to prevent direct contact with impacted soils. Placement of the imported material brought the Project Area to rough grade and allows compressible soils to achieve equilibrium prior to final construction activities to be performed in Spring 2024. In total, as part of **Task 2**, approximately 20,000 cubic yards of imported fill materials (Stantec [2023c,d,e]) were placed/compacted in the Project Area, raising the grade of the River Point Drive ROW an average of 6.5 feet (from 584-586 ft above mean sea level prior to redevelopment, to 590-593 ft above mean sea level as of December 2023). An interim grading exhibit depicting current Project Area topography is included in **Attachment C**.

Reference: Interim Construction Documentation Report – River Point Drive Rights of Way and Adjacent Future Multi-Family Residential and Commercial Parcels, Phase II Redevelopment Area, River Point District; Manitowoc, Wisconsin

As described in the Stantec (2023b) RAP/MMP, the preliminary grading performed in 2023 serves as an interim barrier for direct contact until final streetscape/utility work is completed. Erosion and stormwater controls following WDNR Best Management Practices were implemented following initial grading activities per Stantec (2023b) to protect the Project Area from stormwater and wind erosion until construction resumes in Spring 2024.

## NEXT STEPS

The Project Area is currently at rough final grade with temporary erosion control measures in place. Per the Stantec (2023b) RAP/MMP, the following construction activities are planned to continue in the Project Area in Spring 2024:

**Utility Installation in the ROW.** When soils placed in 2023 have undergone suitable settlement and compaction, new utilities will be installed within the River Point Drive ROW to support proposed future adjoining residential and commercial redevelopment at the River Point District. The installation/trenching is not anticipated to disturb impacted fill materials at the Property (i.e., proposed utility excavations are sufficiently shallow not to encounter this material). In the event that impacted fill materials are unexpectedly disturbed as part of utility installation, they will be transported offsite and managed for disposal at a licensed solid waste landfill.

**Final Grading of the ROW (2024).** When soils placed in 2023 have undergone suitable settlement and compaction, additional fill will be placed in 2024 to achieve finished grades in the Project Area needed to tie into the proposed elevations for the north-adjointing Phase III Redevelopment Area. Materials imported and placed in this way will be sourced from a quarry and/or be pre-characterized prior to placement onsite (ex. Stantec, [2023c,d,e]).

**Engineered Barrier Finishing in the ROW.** In accordance with NR 140, NR 720 and Chapter NR 718.12 (2) WAC, direct contact or groundwater migration concern will be further addressed through the installation of the final engineered surface barrier (cap). This cap will consist of hardscape (e.g., asphalt and/or concrete streetscapes, curbs, and sidewalks) and a 24-inch soil cap in softscape/landscape areas, with no less than 19 inches of clean imported granular or clay fill covered with five inches of imported topsoil and grass. Proposed final capping features are illustrated on **Figure 3**.

Final utility installation, final grading, and the final placement of engineered barrier features (River Point Drive ROW and associated greenspace) are scheduled to be completed in 2024. A separate, final Construction Documentation Report will be prepared to document these items upon the completion of River Point Drive ROW construction.

**Constructing/Finishing Engineered Barriers in the Adjacent Future Commercial and Multi-Family Residential Parcels.** Remedial work in the Project Area initiated construction of the necessary engineered barrier(s) on the adjacent future commercial and multi-family residential parcels. Additional clean fill will be imported in the future to finish construction of the necessary engineered barrier(s) and bring the parcels to grade. The engineered barriers are likely to be finished with a mixture of hardscape (e.g., buildings, sidewalks, driveways, parking lots) and landscaping by future private developers. Future import of clean fill and finishing of the engineered barriers on the adjacent parcels will be described in one or more future RAP/MMPs.

Reference: Interim Construction Documentation Report – River Point Drive Rights of Way and Adjacent Future Multi-Family Residential and Commercial Parcels, Phase II Redevelopment Area, River Point District; Manitowoc, Wisconsin

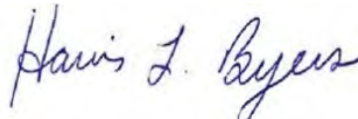
We recommend submitting a copy of this Interim Construction Documentation Report to WDNR for project documentation.

Regards,

**STANTEC CONSULTING SERVICES INC.**



**Whitney Cull, EIT**  
Geological Engineer in Training  
Whitney.Cull@Stantec.com  
Phone: (262) 219-4740



**Harris L. Byers, Ph.D.**  
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Phone: 414-581-6476



**Stu Gross, PG**  
Senior Project Manager  
Stu.Gross@stantec.com  
Phone: (262) 643-9159

**ENCLOSURES**

Figures

- Figure 1: Project Area and Regional Topography
- Figure 2: Project Area and 2020 Orthophotograph
- Figure 3: Project Area and Engineered Barrier Features
- Figure 4: Thickness of Historic Fill Materials
- Figure 5: Project Area and Soil Impacts
- Figure 6: Project Area and Groundwater Impacts

Attachments

- Attachment A: Photographic Log
- Attachment B: Well Abandonment Forms
- Attachment C: Interim Project Area Grades (December 2023)

**REFERENCES**

- Stantec, 2019. Phase I Environmental Site Assessment, 10th Street Railroad Property; Manitowoc, Wisconsin March 21, 2019.
- Stantec, 2023a, Site Investigation Report, River Point District Phase 2 Redevelopment Area; Manitowoc, Wisconsin, September 10, 2021.
- Stantec, 2023b. Remedial Action Plan & Materials Management Plan; Phase 2 Redevelopment Area; River Point District; Manitowoc, Wisconsin; River Point Drive Rights of Way. June 2, 2023.
- Stantec, 2023c. Characterization of Soil in the Reed Avenue (N 2nd to N 8th Streets) Rights of Way; Manitowoc, Wisconsin. April 21, 2023.
- Stantec, 2023d. Characterization of Soil at 333 Reed Avenue; Manitowoc, Wisconsin. May 19, 2023.
- Stantec, 2023e. Characterization of Granular Fill, Proposed River Point Drive Rights-of-Way Extension, River Point District, Manitowoc, Wisconsin; BRRTS #'s 02-36-585491 & 07-36-583000, October 20, 2023.

Reference: Interim Construction Documentation Report – River Point Drive Rights of Way and Adjacent Future Multi-Family Residential and Commercial Parcels, Phase II Redevelopment Area, River Point District; Manitowoc, Wisconsin

## LIMITATIONS

The conclusions in this report are Stantec's professional opinion, as of the time of the report, and concerning the scope described in the report. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. This report relates solely to the specific project for which Stantec was retained and the stated purpose for which the report was prepared. This report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec has assumed all information received from the City and the CDA and third parties in the preparation of this report to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This report is intended solely for use by the City and the CDA in accordance with Stantec's contract with the City and the CDA. While this report may be provided to applicable authorities having jurisdiction and others for whom the City and the CDA is responsible, Stantec does not warrant the services to any third party. This report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.







# FIGURES



Figure No.  
**1**  
 Title  
**Project Area and Regional Topography**  
 Client/Project  
 River Point Drive Rights of Way  
 River Point District  
 City of Manitowoc  
 0 395 790 Feet  
 Prepared by HLB on 5/31/2023

**Legend**

-  River Point District
-  River Point Drive Rights of Way
-  Phase 2 Redevelopment Area



NOTE:  
 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet  
 2. Orthophotograph: Manitowoc County, 2020





Figure No.  
**2**  
 Title  
**Project Area and 2020 Orthophotograph**  
 Client/Project  
 River Point Drive Rights of Way  
 River Point District  
 City of Manitowoc  
 0 125 250 Feet Prepared by HLB on 5/8/2023

**Legend**

- River Point District
- River Point Drive Rights of Way
- Phase 2 Redevelopment Area

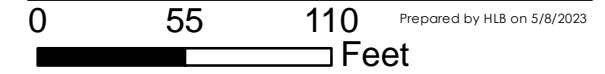
NOTE:  
 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet  
 2. Orthophotograph: Manitowoc County, 2020



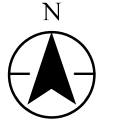





Figure No. 3  
 Title  
 Project Area and Engineered Barrier Features





Client/Project  
 River Point Drive Rights of Way  
 River Point District  
 City of Manitowoc



### Legend



- Monitoring Well Status**
-  Abandoned
  -  Active
  -  Missing/Destroyed as part of Project Construction

- Proposed Redevelopments**
-  Town Homes (2025-2026)
  -  Town Homes (2024-2025)
  -  Roadway (2021-2024)
  -  Landscaping (2023-2025)
  -  Multi-Family Residential (2023-2024)
  -  Sidewalk (2024-2025)
  -  Proposed Commercial (2025-2026)
  -  River Point District
  -  River Point Drive Rights of Way

Notes  
 1. Coordinate System: NAD 1983 HARN WISCRS Manitowoc County Feet  
 2. Orthophotograph: Manitowoc County, 2020





Figure No. **4**  
 Title  
**Thickness of Historic Fill Materials**  
 Client/Project  
 River Point Drive Rights of Way  
 River Point District  
 City of Manitowoc  
 0 125 250 Feet  
 Prepared by HLB on 5/8/2023

**Legend**

- River Point Drive Rights of Way
- River Point District

**Depth to Bottom of Fill (Feet Below Ground Surface)**

- 7.111 - 8
- 6.222 - 7.111
- 5.333 - 6.222
- 4.444 - 5.333
- 3.556 - 4.444
- 2.667 - 3.556
- 1.778 - 2.667
- 0.889 - 1.778
- 0 - 0.889



Notes  
 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet  
 2. Orthophotograph: Manitowoc County, 2020



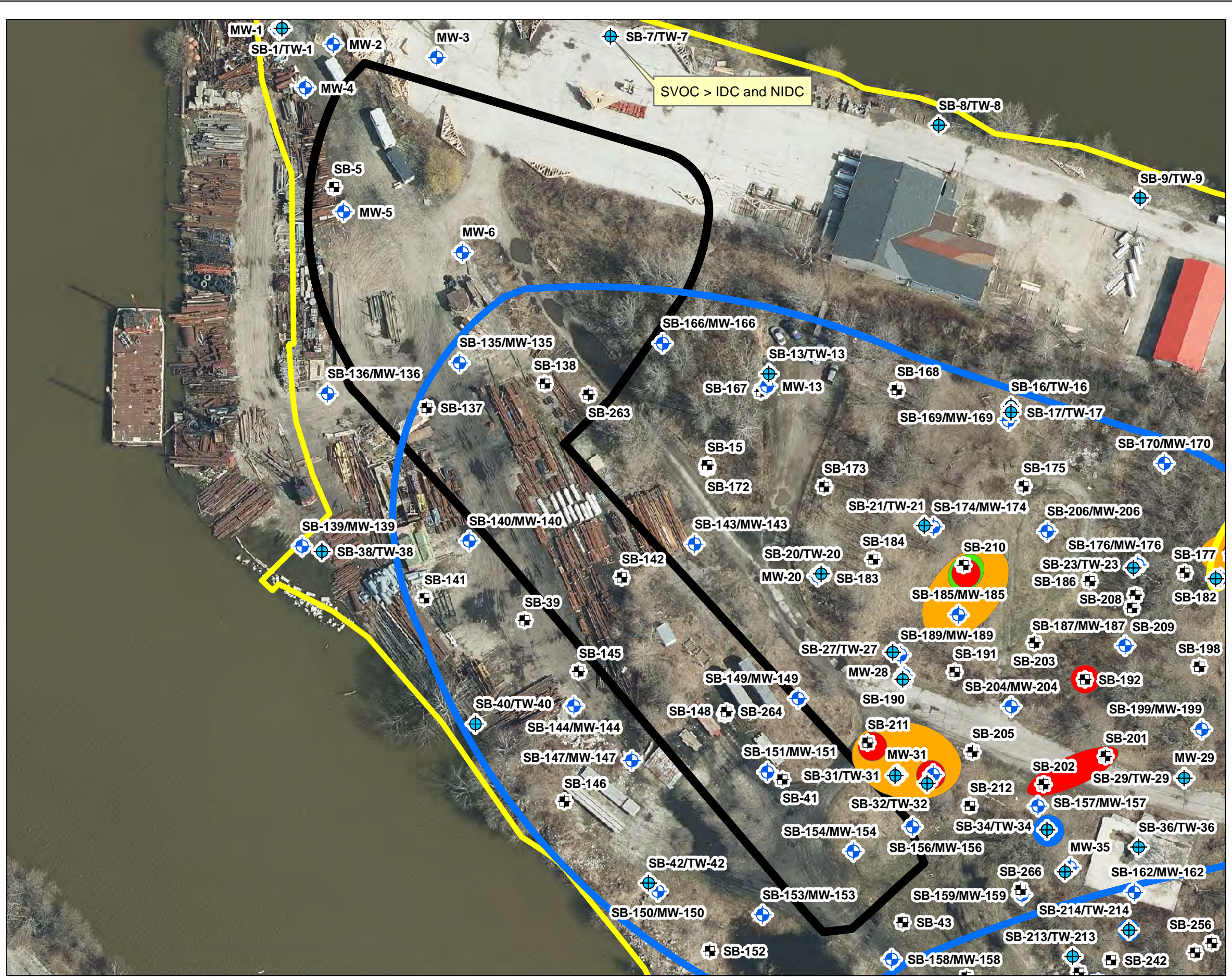


Figure No.  
**5**  
 Title  
**Project Area and Soil Impacts**

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Client/Project  
 River Point Drive Rights of Ways  
 River Point District  
 City of Manitowoc

---

0 55 110 Feet  
 Prepared by HLB on 5/8/2023

### Legend

River Point District

River Point Drive Rights of Way

#### Sample Locations

- ⊕ Soil Boring / Monitoring Well
- ⊕ Soil Boring
- ⊕ Soil Boring / Temp Well

#### Soil Impacts

- Petroleum PAH > IDC
- Petroleum PAH > NIDC
- PVOC > IDC
- PVOC > NIDC
- PVOC > GW Pathway
- CVOCs > GW Pathway

N

Notes

1. Coordinate System: NAD 1983 HARN WISCRS Manitowoc County Feet
2. Orthophotograph: Manitowoc County, 2020
3. PAH = polycyclic aromatic hydrocarbon; PVOC = petroleum volatile organic compound; CVOC = chlorinated volatile organic compound; SVOC = semi-volatile organic compound; IDC = industrial direct contact residual contaminant level; NIDC = non-industrial direct contact residual contaminant level; GW = groundwater.
4. Soil impacts illustrated on this drawing are in addition to the sitewide metals and PAH impacts associated with historic granular fill materials.



Figure No. **6**  
 Title **Project Area and Groundwater Impacts**  
 Client/Project River Point Drive Rights of Ways  
 River Point District  
 City of Manitowoc  
 0 55 110 Feet  
 Prepared by HLB on 5/8/2023

**Legend**

River Point District

River Point Drive Rights of Way

N

**Sample Locations**

Soil Boring / Monitoring Well

Soil Boring

Soil Boring / Temp Well

**Groundwater Impacts**

Cyanide > PAL

CVOC > ES

CVOC > PAL

PVOC > ES

PVOC > PAL

Notes

1. Coordinate System: NAD 1983 HARN WISCRS Manitowoc County Feet
2. Orthophotograph: Manitowoc County, 2020
3. PVOC = petroleum volatile organic compound; CVOC = chlorinated volatile organic compound; PAL = Preventive Action Limit; ES = Enforcement Standard

# Attachment A

## Photographic Log




<b>Client:</b>	<b>City of Manitowoc Community Development Authority</b>	<b>Project:</b>	<b>193709902</b>
<b>Site Name:</b>	<b>River Point Drive</b>	<b>Site Location:</b>	<b>River Point District; Manitowoc, WI</b>

<b>Photograph ID: 1</b>	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking north	
<b>Survey Date:</b> 5/27/2022	
<b>Comments:</b> Conditions in northern portion of Project Area prior to grading (as seen from SB-137)	

<b>Photograph ID: 2</b>	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking west	
<b>Survey Date:</b> 5/27/2022	
<b>Comments:</b> Conditions in central portion of Project Area prior to grading (as seen from SB-142)	

<b>Client:</b>	<b>City of Manitowoc Community Development Authority</b>	<b>Project:</b>	<b>193709902</b>
<b>Site Name:</b>	<b>River Point Drive</b>	<b>Site Location:</b>	<b>River Point District; Manitowoc, WI</b>

<b>Photograph ID:</b> 3	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking northwest	
<b>Survey Date:</b> 6/28/2022	
<b>Comments:</b> Conditions in southern portion of Project Area prior to grading (as seen from Buffalo Street)	

<b>Photograph ID:</b> 4	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking northwest	
<b>Survey Date:</b> 6/29/2023	
<b>Comments:</b> Project Area conditions prior to grading	

<b>Client:</b>	<b>City of Manitowoc Community Development Authority</b>	<b>Project:</b>	<b>193709902</b>
<b>Site Name:</b>	<b>River Point Drive</b>	<b>Site Location:</b>	<b>River Point District; Manitowoc, WI</b>

**Photograph ID:** 5

**Photo Location:**  
River Point Drive

**Direction:**  
Looking south

**Survey Date:**  
8/8/2023

**Comments:**  
Conditions in northern portion of Project Area prior to grading (MW-303 shown)



**Photograph ID:** 6

**Photo Location:**  
River Point Drive


**Direction:**  
Looking west

**Survey Date:**  
8/30/2023


**Comments:**  
Conditions in northern portion of Project Area prior to grading (TW-300 shown)



<b>Client:</b>	<b>City of Manitowoc Community Development Authority</b>	<b>Project:</b>	<b>193709902</b>
<b>Site Name:</b>	<b>River Point Drive</b>	<b>Site Location:</b>	<b>River Point District; Manitowoc, WI</b>


<b>Photograph ID: 7</b>	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking northwest	
<b>Survey Date:</b> 10/31/2023	
<b>Comments:</b> Filling in the Project Area starting in October 2023	



<b>Photograph ID: 8</b>	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking northwest	
<b>Survey Date:</b> 11/7/2023	
<b>Comments:</b> Filling in the Project Area substantially completed by November 2023 (as seen from Buffalo Street intersection)	

<b>Client:</b> City of Manitowoc Community Development Authority		<b>Project:</b> 193709902	
<b>Site Name:</b> River Point Drive		<b>Site Location:</b> River Point District; Manitowoc, WI	
<b>Photograph ID:</b> 9			
<b>Photo Location:</b> River Point Drive			
<b>Direction:</b> Looking west			
<b>Survey Date:</b> 11/7/2023			
<b>Comments:</b> Filling in the Project Area substantially completed by November 2023 (as seen from Buffalo Street intersection)			
<b>Photograph ID:</b> 10			
<b>Photo Location:</b> River Point Drive			
<b>Direction:</b> Looking southwest			
<b>Survey Date:</b> 11/15/2023			
<b>Comments:</b> Filling in the Project Area substantially completed by November 2023 (as seen from north-adjointing property)			

<b>Client:</b>	<b>City of Manitowoc Community Development Authority</b>	<b>Project:</b>	<b>193709902</b>
<b>Site Name:</b>	<b>River Point Drive</b>	<b>Site Location:</b>	<b>River Point District; Manitowoc, WI</b>

<b>Photograph ID:</b> 11	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking northwest	
<b>Survey Date:</b> 1/11/2024	
<b>Comments:</b> Current Project Area conditions, with River Point Drive ~6.5 feet above former grade (as seen from Buffalo Street intersection)	

<b>Photograph ID:</b> 12	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking west	
<b>Survey Date:</b> 1/11/2024	
<b>Comments:</b> Current Project Area conditions, with River Point Drive ~6.5 feet above former grade (as seen from Buffalo Street intersection)	

<b>Client:</b> City of Manitowoc Community Development Authority		<b>Project:</b> 193709902	
<b>Site Name:</b> River Point Drive		<b>Site Location:</b> River Point District; Manitowoc, WI	
<b>Photograph ID:</b> 13			
<b>Photo Location:</b> River Point Drive			
<b>Direction:</b> Looking northeast			
<b>Survey Date:</b> 1/11/2024			
<b>Comments:</b> Current Project Area conditions, with River Point Drive ~6.5 feet above former grade (as seen from Buffalo Street intersection)			
<b>Photograph ID:</b> 14			
<b>Photo Location:</b> River Point Drive			
<b>Direction:</b> Looking northwest			
<b>Survey Date:</b> 1/11/2024			
<b>Comments:</b> Current Project Area conditions, with River Point Drive ~6.5 feet above former grade (as seen from northwest portion of Project Area)			

<b>Client:</b>	<b>City of Manitowoc Community Development Authority</b>	<b>Project:</b>	<b>193709902</b>
<b>Site Name:</b>	<b>River Point Drive</b>	<b>Site Location:</b>	<b>River Point District; Manitowoc, WI</b>

<b>Photograph ID:</b> 15	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking east	
<b>Survey Date:</b> 1/11/2024	
<b>Comments:</b> Current Project Area conditions, with River Point Drive ~6.5 feet above former grade (as seen from northwest portion of Project Area)	

<b>Photograph ID:</b> 16	
<b>Photo Location:</b> River Point Drive	
<b>Direction:</b> Looking southeast	
<b>Survey Date:</b> 1/11/2024	
<b>Comments:</b> Current Project Area conditions, with River Point Drive ~6.5 feet above former grade (as seen from northeast portion of Project Area)	



# Attachment B

## Well Abandonment Forms

MW-2

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.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**

County: Manitowoc

WI Unique Well # of Removed Well: \_\_\_\_\_

Hicap #: \_\_\_\_\_

Latitude / Longitude (see instructions): 44.0962 N  
87.6652 W

Format Code:  DD       DDM

Method Code:  GPS008       SCR002       OTH001

1/4 NE      1/4 NE      Section: 30      Township: 19 N      Range: 24  E       W

or Gov't Lot # \_\_\_\_\_

**2. Facility / Owner Information**

Facility Name: River Point District

Facility ID (FID or PWS): \_\_\_\_\_

License/Permit/Monitoring #: \_\_\_\_\_

Original Well Owner: \_\_\_\_\_

Present Well Owner: City of Manitowoc

Mailing Address of Present Owner: 900 Quay Street

City of Present Owner: Manitowoc      State: WI      ZIP Code: 54220

Well Street Address: N 10th St. & N. 11th St.

Well City, Village or Town: Manitowoc

Well ZIP Code: 54220

Subdivision Name: River Point District

Lot #: \_\_\_\_\_

Reason for Removal from Service: No longer needed

WI Unique Well # of Replacement Well: \_\_\_\_\_

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well      Original Construction Date (mm/dd/yyyy): NIA

Water Well

Borehole / Drillhole

If a Well Construction Report is available, please attach: \_\_\_\_\_

Construction Type:

Drilled       Driven (Sandpoint)       Dug

Other (specify): \_\_\_\_\_

Formation Type:

Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.): 13

Casing Diameter (in.): 2.0

Lower Drillhole Diameter (in.): \_\_\_\_\_

Casing Depth (ft.): \_\_\_\_\_

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)? \_\_\_\_\_

Depth to Water (feet): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?       Yes       No       N/A

Liner(s) removed?       Yes       No       N/A

Liner(s) perforated?       Yes       No       N/A

Screen removed?       Yes       No       N/A

Casing left in place?       Yes       No       N/A

Was casing cut off below surface?       Yes       No       N/A

Did sealing material rise to surface?       Yes       No       N/A

Did material settle after 24 hours?       Yes       No       N/A

If yes, was hole retopped?       Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity       Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials

Neat Cement Grout       Concrete

Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips       Bentonite - Cement Grout

Granular Bentonite       Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	13	0.5 Sack	

**6. Comments**

**7. Supervision of Work**

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
<u>Stantec Consulting</u>		<u>10/25/2023</u>		
Street or Route: <u>12080 Corporate Parkway</u>		Telephone Number: <u>(262) 336-4747</u>	Comments: _____	
City: <u>Mequon</u>	State: <u>WI</u>	ZIP Code: <u>53092</u>	Signature of Person Doing Work: <u>M. Ems</u>	Date Signed: <u>10/27/2023</u>

Route To  Watershed Wastewater  Waste Management   
 Remediation Redevelopment  Other

Facility Project Name 10th Street Railroad Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N _____ ft. <input type="checkbox"/> E _____ ft. <input type="checkbox"/> S _____ ft. <input type="checkbox"/> W	Well Name <b>MW-2 (FKA 5_MW-78)</b>
Facility License, Permit or Monitoring No	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat _____ Long _____ or	Wis. Unique Well No. _____ DNR Well Number 5 MW-78
Facility ID	St Plane <u>44.0962</u> ft N, <u>-87.6652</u> ft E. <input checked="" type="checkbox"/> C/N	Date Well Installed 04/08/2019
Type of Well Well Code 71.dw	Section Location of Waste/Source N <u>1/4</u> of NE <u>1/4</u> of Sec. <u>30</u> , T. <u>19</u> , N. R. <u>24</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Probe Technologies, Inc.
Distance from Waste/Source ft	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe a. Inside diameter _____ in b. Length _____ ft c. Material: Steel <input type="checkbox"/> 0.4 N/A Other <input checked="" type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____	
C. Land surface elevation _____ ft. MSL		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>	
D. Surface seal, bottom _____ ft. MSL or _____ ft		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3.0 N/A Other <input checked="" type="checkbox"/>	
<div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div>		5. Annular space seal a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight _____ Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input type="checkbox"/> 0.8	
E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/>	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.		8. Filter pack material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>3.0</u> ft.		10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Filter pack Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3.5</u> ft.		b. Manufacturer _____	
I. Well bottom _____ ft. MSL or <u>13.5</u> ft.		c. Slot size: <u>0.010</u> in.	
J. Filter pack, bottom _____ ft. MSL or <u>13.5</u> ft.	d. Slotted length: <u>10.0</u> ft		
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.			
L. Borehole, diameter <u>4.3</u> in.			
M. O.D. well casing <u>2.00</u> in.			
N. I.D. well casing <u>2.00</u> in.			

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

Signature [Signature] Firm Stantec Tel. \_\_\_\_\_ Fax \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

MW-4

**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.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

1. Well Location Information

County: Manitowoc      WI Unique Well # of Removed Well: \_\_\_\_\_      Hicap #: \_\_\_\_\_  
 Latitude / Longitude (see instructions): 44.0961 N      Format Code:  DD      Method Code:  GPS008  
87.6652 W       DDM       SCR002       OTH001  
 1/4 NE      1/4 NE      Section: 30      Township: 19 N      Range: 24  E  W

2. Facility / Owner Information

Facility Name: River Point District  
 Facility ID (FID or PWS): \_\_\_\_\_  
 License/Permit/Monitoring #: \_\_\_\_\_  
 Original Well Owner: \_\_\_\_\_  
 Present Well Owner: City of Manitowoc  
 Mailing Address of Present Owner: 900 Quay Street  
 City of Present Owner: Manitowoc      State: WI      ZIP Code: 54220

Well Street Address: N 10th St & N. 11th St.  
 Well City, Village or Town: Manitowoc      Well ZIP Code: 54220  
 Subdivision Name: River Point District      Lot #: \_\_\_\_\_

Reason for Removal from Service: No longer needed      WI Unique Well # of Replacement Well: \_\_\_\_\_

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well      Original Construction Date (mm/dd/yyyy): N/A  
 Water Well  
 Borehole / Drillhole      If a Well Construction Report is available, please attach: \_\_\_\_\_

Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): \_\_\_\_\_

Formation Type:  
 Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.): 13      Casing Diameter (in.): 2.0

Lower Drillhole Diameter (in.): \_\_\_\_\_      Casing Depth (ft.): \_\_\_\_\_

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)? \_\_\_\_\_      Depth to Water (feet): \_\_\_\_\_

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?       Yes       No       N/A  
 Liner(s) removed?       Yes       No       N/A  
 Liner(s) perforated?       Yes       No       N/A  
 Screen removed?       Yes       No       N/A  
 Casing left in place?       Yes       No       N/A  
 Was casing cut off below surface?       Yes       No       N/A  
 Did sealing material rise to surface?       Yes       No       N/A  
 Did material settle after 24 hours?       Yes       No       N/A  
 If yes, was hole retopped?       Yes       No       N/A  
 If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material  
 Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials  
 Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>Bentonite Chips</u>	<u>Surface</u>	<u>13</u>	<u>0.5 Sack</u>	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Stantec Consulting</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/25/2023</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>12030 Corporate Parkway</u>	Telephone Number: <u>(262) 336-4747</u>	Comments: _____			
City: <u>Mequon</u>	State: <u>WI</u>	ZIP Code: <u>53092</u>	Signature of Person Doing Work: <u>M. Ems</u>	Date Signed: <u>10/27/2023</u>	

Route To  Watershed Wastewater  Waste Management   
 Remediation/Redevelopment  Other

Facility/Project Name 10th Street Railroad Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MW-4 (FKA 5_MW-79)</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. _____ DNR Well Number 5 MW-79
Facility ID	Lat _____ Long _____ or St Plane <u>44.0961</u> ft N, <u>-87.6652</u> ft E. <input checked="" type="checkbox"/> C/N	Date Well Installed 04/08/2019
Type of Well Well Code 71/dw	Section Location of Waste/Source N <u>1/4</u> of NE <u>1/4</u> of Sec. <u>30</u> , T. <u>19</u> N, R. <u>24</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Probe Technologies, Inc.
Distance from Waste/Source ft. _____	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 0.4 N/A Other <input checked="" type="checkbox"/>	
C. Land surface elevation _____ ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____	
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>	
<div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div>		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3.0 N/A Other <input checked="" type="checkbox"/>	
E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input type="checkbox"/> 0.8	
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/>	
G. Filter pack, top _____ ft. MSL or <u>3.0</u> ft.		7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>	
H. Screen joint, top _____ ft. MSL or <u>3.5</u> ft.		8. Filter pack material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>	
I. Well bottom _____ ft. MSL or <u>13.5</u> ft.		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ ft. MSL or <u>13.5</u> ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/> b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.		
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Filter pack Other <input type="checkbox"/>		
L. Borehole, diameter <u>4.3</u> in.			
M. O.D. well casing <u>2.00</u> in.			
N. I.D. well casing <u>2.00</u> in.			

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

Signature [Signature]

Firm Stantec

Tel: \_\_\_\_\_  
Fax: \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

MW-5

**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.

Verification Only of Fill and Seal

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Manitowoc</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>River Point District</b>
Latitude / Longitude (see instructions) 44.0961 N 87.6652 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 / 1/4 <b>NE</b> 1/4 <b>NE</b> or Gov't Lot #	Section <b>30</b>	Township <b>19 N</b>	Range <input checked="" type="checkbox"/> <b>E</b> <input type="checkbox"/> W
Well Street Address <b>N 10th St. &amp; N. 11th St.</b>	Well City, Village or Town <b>Manitowoc</b>	Well ZIP Code <b>54220</b>	Original Well Owner
Subdivision Name <b>River Point District</b>	Lot #	City of Present Owner <b>Manitowoc</b>	State <b>WI</b> ZIP Code <b>54220</b>
Reason for Removal from Service <b>No longer needed</b>	WI Unique Well # of Replacement Well	Present Well Owner <b>City of Manitowoc</b>	
<b>3. Filled &amp; Sealed Well / Drillhole / Borehole Information</b>		Mailing Address of Present Owner <b>900 Quay Street</b>	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <b>N/A</b>	City of Present Owner <b>Manitowoc</b>	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	If a Well Construction Report is available, please attach.	State <b>WI</b> ZIP Code <b>54220</b>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	4. Pump, Liner, Screen, Casing & Sealing Material		
Total Well Depth From Ground Surface (ft.) <b>13</b>	Casing Diameter (in.) <b>2.0</b>	Pump and piping removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Liner(s) removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If yes, to what depth (feet)?	Depth to Water (feet)	Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
		Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
		Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
		Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		Required Method of Placing Sealing Material	
		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
		Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

**4. Pump, Liner, Screen, Casing & Sealing Material**

<b>5. Material Used to Fill Well / Drillhole</b>		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Bentonite Chips</b>		Surface	<b>13</b>	<b>0.33 Sack</b>	

**6. Comments**

6. Comments

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>Stantec Consulting</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/25/2023</b>	Date Received	Noted By
Street or Route <b>12080 Corporate Parkway</b>	Telephone Number <b>(262) 336-4747</b>	Comments		
City <b>Mequon</b>	State <b>WI</b> ZIP Code <b>53092</b>	Signature of Person Doing Work <b>M. Ems</b>	Date Signed <b>10/27/2023</b>	

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility Project Name 10th Street Railroad Property	Local Grid Location of Well _____ ft. <input type="checkbox"/> N _____ ft. <input type="checkbox"/> E _____ ft. <input type="checkbox"/> S _____ ft. <input type="checkbox"/> W	Well Name <b>MW-5 (FKA 5_MW-81)</b>
Facility License, Permit or Monitoring No	Local Grid Origin <input type="checkbox"/> (estimated <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. _____ DNR Well Number 5 MW-81
Facility ID	Lat _____ Long _____ or St Plane <u>44.0959</u> ft N, <u>-87.6651</u> ft E <input checked="" type="checkbox"/> C/N	Date Well Installed 04/08/2019
Type of Well Well Code 71/dw	Section Location of Waste/Source N <u>1/4</u> of NE <u>1/4</u> of Sec. <u>30</u> , T. <u>19</u> N, R. <u>24</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) Probe Technologies, Inc.
Distance from Waste/Source ft _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL	1 Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2 Protective cover pipe: a. Inside diameter _____ in. b. Length _____ ft. c. Material: Steel <input type="checkbox"/> 0.4 N/A Other <input checked="" type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.	3 Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
12 USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4 Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3.0 N/A Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 Annular space seal: a. Granular Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight _____ Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite _____ Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input type="checkbox"/> 0.8
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/>	6 Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1.4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9	7 Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8 Filter pack material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
Describe _____	9 Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>
17 Source of water (attach analysis, if required): _____	10 Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
F. Fine sand, top _____ ft. MSL or <u>2.0</u> ft.	11 Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Filter pack Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>2.5</u> ft.	
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>13.0</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	
L. Borehole, diameter <u>4.3</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature W. S. Gull Firm Stantec Tel \_\_\_\_\_ Fax \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

MW-6

**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.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>Manitowoc</b>		WI Unique Well # of Removed Well		Hicap #		Facility Name <b>River Point District</b>	
Latitude / Longitude (see instructions) 44.0958 N 87.6648 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)	
1/4 1/4 NE 1/4 NE or Gov't Lot #		Section 30		Township 19 N		Range 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>N 10th St. &amp; N. 11th St.</b>				Original Well Owner			
Well City, Village or Town <b>Manitowoc</b>				Present Well Owner <b>City of Manitowoc</b>			
Subdivision Name <b>River Point District</b>				Well ZIP Code <b>54220</b>		Mailing Address of Present Owner <b>900 Quay Street</b>	
Reason for Removal from Service <b>No longer needed</b>				Lot #		City of Present Owner <b>Manitowoc</b>	
WI Unique Well # of Replacement Well				State <b>WI</b>		ZIP Code <b>54220</b>	

3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy)		Pump and piping removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Liner(s) removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		If a Well Construction Report is available, please attach.		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <b>13</b>		Casing Diameter (in.) <b>2.0</b>		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		Required Method of Placing Sealing Material			
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
5. Material Used to Fill Well / Drillhole <b>Bentonite Chips</b>				Sealing Materials			
From (ft.) Surface		To (ft.) <b>13</b>		No. Yards, Sacks Sealant or Volume (circle one) <b>0.25 SACK</b>		Mix Ratio or Mud Weight	
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips		For Monitoring Wells and Monitoring Well Boreholes Only:	
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

6. Comments			

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Stantec Consulting</b>		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/25/2023</b>	Date Received	Noted By
Street or Route <b>12080 Corporate Parkway</b>		Telephone Number <b>(262) 336-4747</b>		Comments	
City <b>Mequon</b>	State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <i>M. Ewert</i>	Date Signed <b>10/27/2023</b>	



Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

Facility Project Name 10th Street Railroad Property	Local Grid Location of Well _____ ft <input type="checkbox"/> N _____ ft <input type="checkbox"/> E _____ ft <input type="checkbox"/> S _____ ft <input type="checkbox"/> W	Well Name <b>MW-6 (FKA 5_MW-82)</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. _____ DNR Well Number 5 MW-82
Facility ID	St Plane <u>44.0958</u> ft N, <u>-87.6648</u> ft E <input checked="" type="checkbox"/> C/N	Date Well Installed 04/08/2019
Type of Well Well Code 71/dw	Section Location of Waste/Source N <input type="checkbox"/> 1/4 of NE 1/4 of Sec. 30 T. 19 N. R. 24 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) Probe Technologies, Inc.
Distance from Waste/Source ft _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL.	1 Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL.	2 Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 0 4 N/A Other <input checked="" type="checkbox"/>
C. Land surface elevation _____ ft. MSL.	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 N/A Other <input checked="" type="checkbox"/>
13 Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8
14 Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>	6 Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
15 Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9	7 Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
16 Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8 Filter pack material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9 Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.	10 Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>2.0</u> ft.	b. Manufacturer _____
G. Filter pack, top _____ ft. MSL or <u>2.5</u> ft.	c. Slot size <u>0.010</u> in.
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	d. Slotted length: <u>10.0</u> ft.
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	11 Backfill material (below filter pack) None <input checked="" type="checkbox"/> 1 4 Filter pack Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>13.0</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	
L. Borehole, diameter <u>4.3</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature [Signature] Firm Stantec Tel. \_\_\_\_\_ Fax \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

**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.

<input type="checkbox"/> <b>Verification Only of Fill and Seal</b>	<b>Route to DNR Bureau:</b>		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information	2. Facility / Owner Information
------------------------------	---------------------------------

County	WI Unique Well # of Removed Well	Hicap #	Facility Name		
<b>SB-31/TW-31 (FKA 3_SB-20/3_TW-20)</b>					
Latitude / Longitude (see instructions)					
<input type="checkbox"/> N <input type="checkbox"/> DD <input type="checkbox"/> GPS008 <input type="checkbox"/> W <input type="checkbox"/> DDM <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		License/Permit/Monitoring #			
1/4 / 1/4      1/4      Section      Township      Range <input type="checkbox"/> E <input type="checkbox"/> W or Gov'l Lot #      N		Original Well Owner			
Well Street Address		Present Well Owner			
Well City, Village or Town		Well ZIP Code		Mailing Address of Present Owner	
Subdivision Name		Lot #		City of Present Owner      State      ZIP Code	

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
--	---

Reason for Removal from Service	WI Unique Well # of Replacement Well	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) 11/15/2018		Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify) _____		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Sealing Materials <input type="checkbox"/> Neal Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips	
Total Well Depth From Ground Surface (ft.)      Casing Diameter (in.) Lower Drillhole Diameter (in.)      Casing Depth (ft.) 0.75 10		For Monitoring Wells and Monitoring Well Boreholes Only <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If yes, to what depth (feet)?      Depth to Water (feet)			

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite - Granular	Surface	10	31b	

6. Comments
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Jacob Bean of Aecom observed on-site environmental as a subcontractor to Aecom and signed the form verifying the well removal and sealing

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By	
Ons He environmental services					
Street or Route		Telephone Number		Comments	
PO Box 280		(608) 837-8492			
City	State	ZIP Code	Signature of Person Doing Work		Date Signed
Sun Prairie	WI	53590	<i>Jacob Bean</i>		3-3-20

Site Name: Former Railroad Property

**SB-31/TW-31**  
**(FKA 3\_SB-20/3\_TW-20)**

Date: 11/15/18

Start: 3:15

Finish: 3:25

Address: 100 Block of 10th Street  
Manitowoc, WI

Boring recovery (feet)	Sample number	Sample time	Sampled for	Depth (feet)	Detailed Soil and Rock Description	Depth (feet)	PID collection and sample time	PID (ppm)	Well Log (if applicable)	Remarks
2.5/4				0.5	0-0.5' DP SOIL + GRASS	0.5	3:31 3:47	1.0	LENTONITE	<p><b>STICK-UP: 1.28'</b></p> <p><b>Abbreviations:</b>                      D = Dry                      W = Wet                      M = Moist</p> <p>fbg = feet below grade                      HC = Hydrocarbon</p> <p>* = Recovery is less than 100% due to compaction of soils/sands in core sampler, recovery is full recovery.</p>
				1	0.5-2' DARK BROWN FILL, GRAVELLY SAND. GRAVELS IN 1/8" - 1" SANDY/GRAVULAR MATRIX (BLACK) DET.	1	3:31 3:47	0.3		
				2	2-3.5' FILL, STONE OR CEMENT, BETA, WELL-GRADED GRAVELS 1/8" - 1/2" SANDY MATRIX (~40%) SAME MAT'L. WGT.	2	3:37 3:48	0.2		
				3	3.5-5.5' FILL, BLACK ANGLULAR, SATURATED, GRANULAR APPEARANCE. SOME GRAVELS NEAR 5' MARK.	3	3:37 3:48	0.2		
				4		4	3:37 3:50	0.6		
				5		5	3:37 3:50	0.3		
				6	5.5-7' SILTY SAND, SATURATED, GREY-BROWN. SOME GRAVELS	6	3:37 3:50			
				7	7-11 PEAT, WGT	7				
				8	7-8: PULP-LIKE CONSISTENCY, ODDER-BROWN'	8				
				9	8-11: CLASSIC PEATY APPEARANCE, SOFT, DARK BROWN	9				
				10	11-12 CLAYEY SILT, WGT. GRAY	10				

3:40  
53 SB-20 RCM  
2-3.5 PM

3/4

2.5/4

End of Boring @ 12 bgs

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

<p><b>Groundwater Data</b></p> <p>▼ Depth While Drilling <u>3.5'</u></p> <p>▽ Depth After Drilling n/a</p>	<p><b>Rig</b></p> <p>GeoProbe Depth <u>12</u> Geologist <u>Whitney Cull</u></p> <p>Driller/Co. _____</p>
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**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.

<input type="checkbox"/> <b>Verification Only of Fill and Seal</b> <div style="text-align: center;"><b>TW-32</b></div>	<b>Route to DNR Bureau:</b> <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
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County <b>Manitowoc</b>	WI Unique Well # of Removed Well _____	Hicap # <b>N/A</b>	Facility Name <b>River Point District</b>		
Latitude / Longitude (see instructions) <b>44.0947 N</b> <b>87.6635 W</b>		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Facility ID (FID or PWS) <b>BRRTS # 02-36-585-491</b>		
1/4 / 1/4 NE NE or Gov't Lot #		Township <b>19 N</b>	License/Permit/Monitoring # <b>N/A</b>		
Well Street Address <b>River Point Drive</b>		Range <b>24</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Original Well Owner <b>N/A</b>		
Well City, Village or Town <b>Manitowoc</b>		Well ZIP Code <b>54220</b>	Present Well Owner <b>Manitowoc Community Development Authority</b>		
Subdivision Name <b>River Point District</b>		Lot # <b>N/A</b>	Mailing Address of Present Owner <b>900 Quay St</b>		
Reason for Removal from Service <b>Borehole Abandonment</b>		WI Unique Well # of Replacement Well <b>N/A</b>	City of Present Owner <b>Manitowoc</b>		
			State <b>WI</b>		
			ZIP Code <b>54220</b>		

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <div style="text-align: center;"><b>09/09/2020</b></div> If a Well Construction Report is available, please attach.	<input type="checkbox"/> Pump and piping removed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) removed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) perforated? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Screen removed? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Was casing cut off below surface? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Did sealing material rise to surface? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) <b>N/A</b>	For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
Lower Drillhole Diameter (in.) <b>2.25</b>	Casing Depth (ft.) <b>N/A</b>				
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown					
If yes, to what depth (feet)? <b>N/A</b>	Depth to Water (feet) <b>5</b>				

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
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<b>Bentonite Chips</b>	Surface	10	0.125 sacks	N/A
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6. Comments
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7. Supervision of Work	DNR Use Only
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Name of Person or Firm Doing Filling & Sealing <b>Stantec</b>	License # <b>N/A</b>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>04/18/2022</b>	Date Received	Noted By
Street or Route <b>12080 Corporate Pkwy, Suite 200</b>		Telephone Number <b>( 262 ) 241-4466</b>	Comments	
City <b>Mequon</b>	State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <i>Whitney Cull</i>	Date Signed <b>1/17/2024</b>

193707884

Site:

Phase II ESA

Page: 1 of 2

Site Name: Manitowoc, SAG Site 3

Address: 1110 Buffalo Street  
Manitowoc, Wisconsin

**SB-32/TW-32**  
**(FKA 3\_SB-91/3\_TW-91)**

Date: 9/9/2020  
Start: 12:20  
Finish: 12:30

Boring recovery (feet)	Sample number	Sample time	Sampled for	Depth (feet)	Detailed Soil and Rock Description	Depth (feet)	PID collection and sample time	PID (ppm)	Well Log (if applicable)	Remarks	
				0.5	<p>SOILFACE: <del>ROOTED</del> TOPSOIL (LAYER 1) HANDS</p> <p>0-0.25 ROOTED TOPSOIL, DARK BROWN, MOIST, GRAVELS (~30%) 8/16", SUBROUND, 1/8-1".</p> <p>0.25-4 LAMINAR, SOME ROOTS, 1/8-1/2" (LONGER W/1"), MODERATE, WET. MATRIX (SANDY, SILTY) OF SAME MATL. NO ROOT.</p> <p>A-4.25 FILL, BLACK, LAMINAR, MODERATE, NO ROOT.</p> <p>4.25-4.5 SAME AS 0.25-4</p> <p>4.5-5 WOOD + TAR, BLACK, FINE IS SILTY + HAS STRONG ODR, WOOD IS BLACK/DARK BROWN. SILTY MATRIX (~30%).</p> <p>5-10 COARSE SAND, BROWN, STRONG PET. ODR, SILTY, COARSENS TO SANDY GRAVEL W/DEPTH (SIS-ROUNDED, GRAVELS 10-50%, 1/8-1").</p> <p style="text-align: center;">END @ 10'</p>	0.5					<p><b>Abbreviations:</b></p> <p>D = Dry</p> <p>W = Wet</p> <p>M = Moist</p> <p>fbg = feet below grade</p> <p>HC = Hydrocarbon</p>
2.5 / 5	SB-91	0.25-2	NOE	1			1				
		1305	SUOC	1.5			1.5		1.6		
			REMA	2			2				
				2.5			2.5				
				3			3		0.10		
				3.5			3.5				
				4			4				
				4.5			4.5		0.4		
	SB-91	4.5-5	NOE	5			5		3.9		
		1310	SUOC	5.5		5.5		32.1			
			REMA	6		6					
				6.5		6.5					
				7		7					
				7.5		7.5					
				8		8					
				8.5		8.5					
				9		9					
				9.5		9.5					
				10		10					

End of Boring @ 10' bgs

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

<p><b>Groundwater Data</b></p> <p>▼ Depth While Drilling 5'</p> <p>▽ Depth After Drilling n/a</p>	<p><b>Rig</b></p> <p>GeoProbe Depth 10'</p> <p>Geologist Whitney Cull</p>	
<p>Driller/Co. Horizon</p>		

**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.

<input type="checkbox"/> <b>Verification Only of Fill and Seal</b> <b>MW-151</b>	<b>Route to DNR Bureau:</b> <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
County: <b>Manitowoc</b> WI Unique Well # of Removed Well: _____ Hicap #: <b>N/A</b>	Facility Name: <b>River Point District</b> Facility ID (FID or PWS): <b>BRRTS # 02-36-585-491</b>

Latitude / Longitude (see instructions) <b>44.0948 N</b> <b>87.664 W</b>	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	License/Permit/Monitoring # <b>N/A</b>
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1/4 / 1/4 <b>NE</b> 1/4 <b>NE</b> or Gov't Lot #	Section: <b>30</b>	Township: <b>19 N</b>	Range: <input checked="" type="checkbox"/> <b>E</b> <input type="checkbox"/> <b>W</b>	Original Well Owner <b>N/A</b>
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Well Street Address <b>River Point Drive</b>	Present Well Owner <b>Manitowoc Community Development Authority</b>
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Well City, Village or Town <b>Manitowoc</b>	Well ZIP Code <b>54220</b>	Mailing Address of Present Owner <b>900 Quay St</b>
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Subdivision Name <b>River Point District</b>	Lot # <b>N/A</b>	City of Present Owner <b>Manitowoc</b>	State <b>WI</b>	ZIP Code <b>54220</b>
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Reason for Removal from Service <b>Borehole Abandonment</b>	WI Unique Well # of Replacement Well <b>N/A</b>	4. Pump, Liner, Screen, Casing & Sealing Material		
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3. Filled & Sealed Well / Drillhole / Borehole Information		Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> <b>N/A</b>
<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>11/08/2022</b>	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> <b>N/A</b>
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> <b>N/A</b>
<input type="checkbox"/> Borehole / Drillhole		Screen removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> <b>N/A</b>
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> <b>N/A</b>
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> <b>N/A</b>
Formation Type:		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> <b>N/A</b>
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> <b>N/A</b>
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) <b>N/A</b>	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> <b>N/A</b>
Lower Drillhole Diameter (in.) <b>4.25</b>	Casing Depth (ft.) <b>N/A</b>	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> <b>N/A</b>

Was well annular space grouted?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Required Method of Placing Sealing Material
If yes, to what depth (feet)? <b>N/A</b>	Depth to Water (feet) <b>1</b>			<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____

5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Bentonite Chips</b>		<b>Surface</b>	<b>10</b>	<b>0.5 sacks</b>	<b>N/A</b>

Sealing Materials		For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

6. Comments					
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7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Stantec</b>	License # <b>N/A</b>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>07/25/2023</b>	Date Received	Noted By	
Street or Route <b>12080 Corporate Pkwy, Suite 200</b>		Telephone Number <b>( 262 ) 241-4466</b>	Comments		
City <b>Mequon</b>	State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <i>Whitney Cull</i>	Date Signed <b>1/17/2024</b>	

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

**MONITORING WELL CONSTRUCTION**  
Form 4400-113A Rev. 7-98

Facility/Project Name <b>River Point District - Lot 3</b>	Local Grid Location of Well ft. <input type="checkbox"/> N, <input type="checkbox"/> S, <input type="checkbox"/> E, <input type="checkbox"/> W	Well Name <b>MW-151</b>
Facility License, Permit or Monitoring No. <b>BRRTS #02-36-176478</b>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " ' " Long. " ' " or	Wis. Unique Well No.   DNR Well Number
Facility ID	St. Plane <b>772,096</b> ft. N, <b>2,582,153</b> ft. E. S / C / N	Date Well Installed <b>11/08/2022</b>
Type of Well <b>Well Code 71/dw</b>	Section Location of Waste/Source <b>NE 1/4 of NE 1/4 of Sec 30, T. 19 N, R. 24</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <b>Ben Long</b>
Distance from Waste/Source ft. <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Horizon Construction and Exploration, LLC

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
 B. Well casing, top elevation 586.77 ft. MSL  
 C. Land surface elevation 584.8 ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.

12 USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

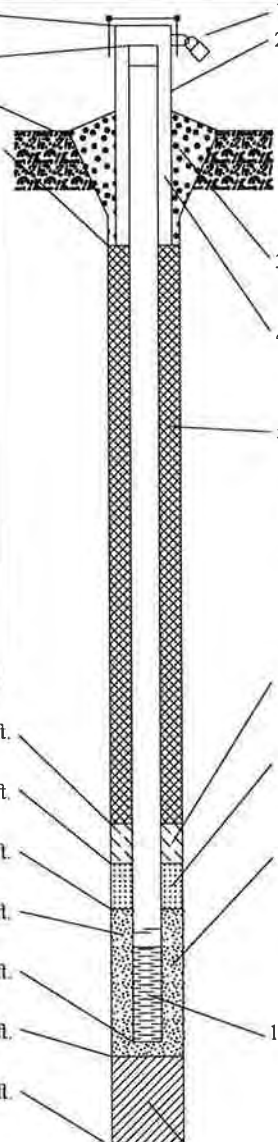
13 Sieve analysis attached?  Yes  No

14 Drilling method used: Rotary  5 0  
 Hollow Stem Auger  4 1  
 Other

15 Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16 Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required)



1. Cap and lock?  Yes  No

2. Protective cover pipe:  
 a. Inside diameter: \_\_\_\_\_ in  
 b. Length: \_\_\_\_\_ ft  
 c. Material: Steel  0 4  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  3 0  
 Concrete  0 1  
 Other

4. Material between well casing and protective pipe:  
 Bentonite  3 0  
 N/A  Other

5. Annular space seal: a. Granular/Chipped Bentonite  3 3  
 b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  3 5  
 c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  3 1  
 d. \_\_\_\_\_ % Bentonite ... Bentonite-cement grout  5 0  
 e. 0.25 Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  0 1  
 Tremie pumped  0 2  
 Gravity  0 8

6. Bentonite seal: a. Bentonite granules  3 3  
 b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  3 2  
 c. \_\_\_\_\_ Other

7. Fine sand material: Manufacturer, product name & mesh size  
 a. \_\_\_\_\_  
 b. Volume added 0.15 ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name & mesh size  
 a. \_\_\_\_\_  
 b. Volume added 1 ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  2 3  
 Flush threaded PVC schedule 80  2 4  
 Other

10. Screen material: PVC  
 a. Screen Type: Factory cut  1 1  
 Continuous slot  0 1  
 Other   
 b. Manufacturer \_\_\_\_\_  
 c. Slot size: 0.010 in  
 d. Slotted length: 10.0 ft

11. Backfill material (below filter pack) None  1 4  
 Other

E. Bentonite seal, top 584.8 ft. MSL or 0.0 ft.  
 F. Fine sand, top 582.8 ft. MSL or 2.0 ft.  
 G. Filter pack, top 582.3 ft. MSL or 2.5 ft.  
 H. Screen joint, top 581.8 ft. MSL or 3.0 ft.  
 I. Well bottom 571.8 ft. MSL or 13.0 ft.  
 J. Filter pack, bottom 571.8 ft. MSL or 13.0 ft.  
 K. Borehole, bottom 574.8 ft. MSL or 10.0 ft.  
 L. Borehole, diameter 2.3 in.  
 M. O.D. well casing 2.25 in.  
 N. I.D. well casing 2.00 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
 Signature Whitney Call Firm Stantec Consulting Services Inc. Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

**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.

<input type="checkbox"/> <b>Verification Only of Fill and Seal</b> <b>MW-153</b>	<b>Route to DNR Bureau:</b> <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Manitowoc</b>	WI Unique Well # of Removed Well _____	Hicap # <b>N/A</b>	Facility Name <b>River Point District</b>
Latitude / Longitude (see instructions) <b>44.0945 N</b> <b>87.664 W</b>		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
Facility ID (FID or PWS) <b>BRRTS # 02-36-585-491</b>		License/Permit/Monitoring # <b>N/A</b>	
Original Well Owner <b>N/A</b>		Present Well Owner <b>Manitowoc Community Development Authority</b>	
Well Street Address <b>River Point Drive</b>		Mailing Address of Present Owner <b>900 Quay St</b>	
Well City, Village or Town <b>Manitowoc</b>		Well ZIP Code <b>54220</b>	
Subdivision Name <b>River Point District</b>		Lot # <b>N/A</b>	City of Present Owner <b>Manitowoc</b>
Reason for Removal from Service <b>Borehole Abandonment</b>		WI Unique Well # of Replacement Well <b>N/A</b>	State <b>WI</b>
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <b>05/04/2022</b>	ZIP Code <b>54220</b>
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b> Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Was casing cut off below surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Total Well Depth From Ground Surface (ft.) <b>10</b>		Casing Diameter (in.) <b>N/A</b>	
Lower Drillhole Diameter (in.) <b>4.25</b>		Casing Depth (ft.) <b>N/A</b>	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
If yes, to what depth (feet)? <b>N/A</b>		For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Depth to Water (feet) <b>2</b>			

**3. Filled & Sealed Well / Drillhole / Borehole Information**

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight	
<b>Bentonite Chips</b>	Surface	10	0.5 sacks	N/A	
<b>6. Comments</b>					
<b>7. Supervision of Work</b>					
Name of Person or Firm Doing Filling & Sealing <b>Stantec</b>		License # <b>N/A</b>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>07/25/2023</b>	<b>DNR Use Only</b>	
Street or Route <b>12080 Corporate Pkwy, Suite 200</b>		Telephone Number <b>( 262 ) 241-4466</b>	Date Received	Noted By	
City <b>Mequon</b>		State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <i>Whitney Cull</i>	
				Date Signed <b>1/17/2024</b>	



Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name River Point District - Lot 3		Local Grid Location of Well _____ ft <input type="checkbox"/> N. _____ ft <input type="checkbox"/> E. _____ ft <input type="checkbox"/> S. _____ ft <input type="checkbox"/> W.		Well Name MW-153	
Facility License, Permit or Monitoring No. BRRTS #02-36-176478		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. _____ DNR Well Number _____	
Facility ID		Lat. _____ Long. _____ or St. Plane 771,993 ft N, 2,582,152 ft E. S/C/N		Date Well Installed 05/04/2022	
Type of Well Well Code 71/dw		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec 30, T. 19 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Ben Long	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Horizon Construction and Exploration, LLC	

A. Protective pipe, top elevation \_\_\_\_\_ ft MSL  
B. Well casing, top elevation 586.25 ft MSL  
C. Land surface elevation 583.2 ft MSL  
D. Surface seal, bottom \_\_\_\_\_ ft MSL or \_\_\_\_\_ ft

12 USCS classification of soil near screen:  
GP  GM  GC  GW  SW  SP   
SM  SC  ML  MH  CL  CH   
Bedrock

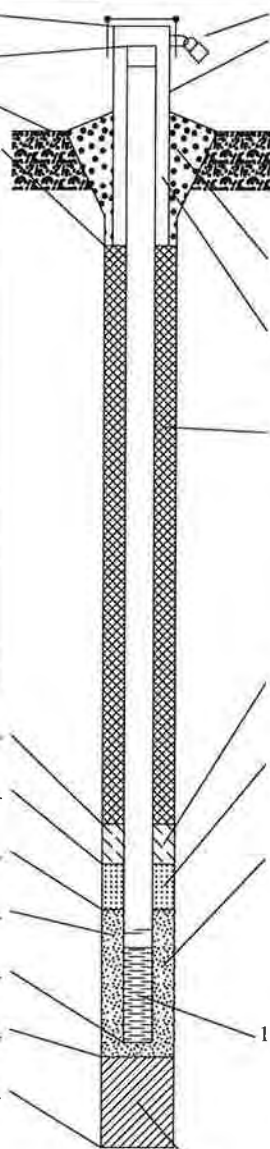
13 Sieve analysis attached?  Yes  No

14 Drilling method used: Rotary  5 0  
Hollow Stem Auger  4 1  
Other

15 Drilling fluid used: Water  0 2 Air  0 1  
Drilling Mud  0 3 None  9 9

16 Drilling additives used?  Yes  No  
Describe \_\_\_\_\_

17 Source of water (attach analysis, if required):



1. Cap and lock?  Yes  No

2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft  
c. Material: Steel  0 4  
Other  N/A

d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  3 0  
Concrete  0 1  
Other

4. Material between well casing and protective pipe:  
Bentonite  3 0  
Other  N/A

5. Annular space seal: a. Granular/Chipped Bentonite  3 3  
b. \_\_\_\_\_ Lbs/gal mud weight Bentonite-sand slurry  3 5  
c. \_\_\_\_\_ Lbs/gal mud weight Bentonite slurry  3 1  
d. \_\_\_\_\_ % Bentonite Bentonite-cement grout  5 0  
e. 0.25 Ft<sup>3</sup> volume added for any of the above  
f. How installed: Tremie  0 1  
Tremie pumped  0 2  
Gravity  0 8

6. Bentonite seal: a. Bentonite granules  3 3  
b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  3 2  
c. \_\_\_\_\_ Other

7. Fine sand material: Manufacturer, product name & mesh size  
a. \_\_\_\_\_  
b. Volume added 0.15 ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name & mesh size  
a. \_\_\_\_\_  
b. Volume added 1. \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  2 3  
Flush threaded PVC schedule 80  2 4  
Other

10. Screen material: PVC  
a. Screen Type: Factory cut  1 1  
Continuous slot  0 1  
Other

b. Manufacturer \_\_\_\_\_  
c. Slot size: 0.010 in.  
d. Slotted length: 10.0 ft

11. Backfill material (below filter pack): None  1 4  
Other

E. Bentonite seal, top 583.2 ft MSL or 0.0 ft  
F. Fine sand, top 581.2 ft MSL or 2.0 ft  
G. Filter pack, top 580.7 ft MSL or 2.5 ft  
H. Screen joint, top 580.2 ft MSL or 3.0 ft  
I. Well bottom 571.2 ft MSL or 12.0 ft  
J. Filter pack, bottom 570.2 ft MSL or 13.0 ft  
K. Borehole, bottom 573.2 ft MSL or 10.0 ft  
L. Borehole, diameter 2.3 in.  
M. O.D. well casing 2.25 in.  
N. I.D. well casing 2.00 in.

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

Signature Whitney Call Firm Stantec Consulting Services Inc Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

**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.

**Verification Only of Fill and Seal**

**TW-295**

**Route to DNR Bureau:**

- Drinking Water
- Watershed/Wastewater
- Remediation/Redevelopment
- Waste Management
- Other: \_\_\_\_\_

**1. Well Location Information**

County <b>Manitowoc</b>	WI Unique Well # of Removed Well _____	Hicap # <b>N/A</b>
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Latitude / Longitude (see instructions) <b>44.096 N</b> <b>87.6644 W</b>	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
--	---	---

¼ / ¼ NE or Gov't Lot #	Section <b>30</b>	Township <b>19 N</b>	Range <b>24</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W
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Well Street Address  
**River Point Drive**

Well City, Village or Town <b>Manitowoc</b>	Well ZIP Code <b>54220</b>
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Subdivision Name <b>River Point District</b>	Lot # <b>N/A</b>
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Reason for Removal from Service <b>Borehole Abandonment</b>	WI Unique Well # of Replacement Well <b>N/A</b>
--	--

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>08/29/2023</b>
<input type="checkbox"/> Water Well	
<input type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.

Construction Type:

Drilled     Driven (Sandpoint)     Dug

Other (specify): \_\_\_\_\_

Formation Type:

Unconsolidated Formation     Bedrock

Total Well Depth From Ground Surface (ft.) <b>15</b>	Casing Diameter (in.) <b>N/A</b>
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Lower Drillhole Diameter (in.) <b>2.25</b>	Casing Depth (ft.) <b>N/A</b>
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Was well annular space grouted?     Yes     No     Unknown

If yes, to what depth (feet)? <b>N/A</b>	Depth to Water (feet) <b>5</b>
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**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Bentonite Chips</b>	<b>Surface</b>	<b>15</b>	<b>0.125 sacks</b>	<b>N/A</b>

**6. Comments**

**7. Supervision of Work**

Name of Person or Firm Doing Filling & Sealing <b>Stantec</b>	License # <b>N/A</b>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>08/29/2023</b>	<b>DNR Use Only</b>	
Street or Route <b>12080 Corporate Pkwy, Suite 200</b>			Date Received	Noted By
City <b>Mequon</b>			Telephone Number <b>( 262 ) 241-4466</b>	Comments
State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <i>Whitney Cull</i>	Date Signed <b>1/17/2024</b>	

193708490	Site: River Point District	Boring Number: 193708490-05	Page: 1 of 1
Site Name: River Point District	Boring Location:		Date: 8/29/2023
Address: Phase III Construction Area Manitowoc, WI			Start: 1400 Finish: 1410

Boring recovery (feet)	Sample number	Sample time	Sampled for	Depth (feet)	Detailed Soil and Rock Description	Depth (feet)	PID collection and sample time	PID (ppm)	Well Log (if applicable)	Remarks
25/5				0.5	0-0.25 SILTY SAND (100% sand)	0.5				<b>Abbreviations:</b> D = Dry W = Wet M = Moist  fbg = feet below grade  HC = Hydrocarbon
				1	0.25-5 SANDY CLAY, SILTY, SOME MOISTURE, REMAINS FINE	1				
				1.5	1/4-1/2" AGGREGATE, NO AGGREGATE	1.5		0.3		
				2		2				
				2.5		2.5				
				3		3				
				3.5		3.5				
				4		4		0.4		
				4.5		4.5				
				5	5-7 SILTY CLAY, SILTY, SILTY	5				
25/5			CN PAH RCKA	5.5	SAND, SILTY SAND, SILTY SAND	5.5				193708490 SAMPLED FOR VOC @ 1.5, 2.5, 3.5, 4.5, 5.5, 6.5, 7.5, 8.5, 9.5, 10.5
				6		6		0.4		
				6.5		6.5				
				7	7-9.5 SANDY SILTY CLAY, SILTY CLAY	7				
				7.5	BRN, SILTY SAND, SILTY SAND (NO BLUE)	7.5				
				8		8				
				8.5		8.5		0.8		
				9		9				
				9.5	9.5-10.5 SILTY CLAY, SANDY CLAY	9.5				
				10	10-10.5 SANDY SILTY CLAY, SANDY SILTY CLAY	10		0.5		

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

<b>Groundwater Data</b> ▼ Depth While Drilling ▽ Depth After Drilling n/a	<b>Rig</b> GeoProbe _____ Depth _____ Geologist Whitney Cull Driller/Co. _____ Horizon _____
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193708490	Site: River Point District	Boring Number: 30795/11-173	Page: 2 of 2
Site Name: River Point District	Boring Location:		Date: 8/7/2023
Address: Phase III Construction Area Manitowoc, WI			Start: Finish:

Boring recovery (feet)	Sample number	Sample time	Sampled for	Depth (feet)	Detailed Soil and Rock Description	Depth (feet)	PID collection and sample time	PID (ppm)	Well Log (if applicable)	Remarks
4/5'				10.5	10.5-12 fine clay, silty, moist	10.5	(AS ABOVE)	0.4		<b>Abbreviations:</b> D = Dry W = Wet M = Moist  fbg = feet below  HC = Hydrocarbon
				11	11-12 silty, clay, coarse, moist	11				
				11.5	11.5-12 silty, clay, moist	11.5				
				12	12-13.5 silty, clay, moist	12		0.3		
		1444		12.5	12.5-13 silty, clay, moist	12.5				
				13	13-13.5 silty, clay, moist	13		0.3		
				13.5	13.5-14 silty, clay, moist	13.5				
				14	14-14.5 silty, clay, moist	14				
				14.5	14.5-15 silty, clay, moist	14.5				
				15	15-15.5 silty, clay, moist	15				
				15.5	15.5-16 silty, clay, moist	15.5				
				16	16-16.5 silty, clay, moist	16				
				16.5	16.5-17 silty, clay, moist	16.5				
				17	17-17.5 silty, clay, moist	17				
				17.5	17.5-18 silty, clay, moist	17.5				
				18	18-18.5 silty, clay, moist	18				
				18.5	18.5-19 silty, clay, moist	18.5				
				19	19-19.5 silty, clay, moist	19				
				19.5	19.5-20 silty, clay, moist	19.5				
				20	20-20.5 silty, clay, moist	20				

End of Boring @ 13' bgs

Note: Stratification lines are approximate; in-situ transition between soil types may be gradual.

<b>Groundwater Data</b> ▼ Depth While Drilling _____ ▽ Depth After Drilling _____ n/a	GeoProbe Depth _____ Driller/Co. Horizon _____	Rig _____ Geologist Whitney Cull
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MW-300

**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.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**

County <b>Manitowoc</b>	WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (see instructions) 44.0959 N 87.6648 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 <b>NE</b> or Gov't Lot #	Section <b>30</b>	Township <b>19 N</b>
		Range <b>24 E</b>
Well Street Address <b>N 10th St. &amp; N. 11th St.</b>	Well City, Village or Town <b>Manitowoc</b>	Well ZIP Code <b>54220</b>
Subdivision Name <b>River Point District</b>	Lot #	

**2. Facility / Owner Information**

Facility Name <b>River Point District</b>		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner <b>City of Manitowoc</b>		
Mailing Address of Present Owner <b>900 Quay Street</b>		
City of Present Owner <b>Manitowoc</b>	State <b>WI</b>	ZIP Code <b>54220</b>

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Reason for Removal from Service <b>No longer needed</b>	WI Unique Well # of Replacement Well
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <b>N/A</b>
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	If a Well Construction Report is available, please attach.
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>13</b>	Casing Diameter (in.) <b>2.0</b>
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Liner(s) removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____		
Sealing Materials	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:	<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		

**5. Material Used to Fill Well / Drillhole**

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<b>13</b>	<b>0.25 SACK</b>	

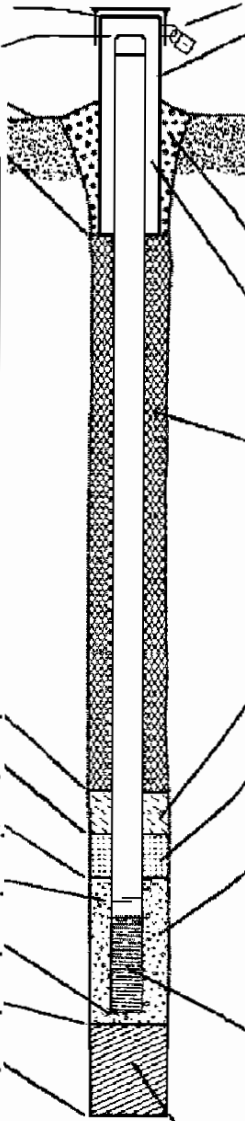
**6. Comments**

**7. Supervision of Work**

Name of Person or Firm Doing Filling & Sealing <b>Stantec Consulting</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/25/2023</b>	DNR Use Only	
Street or Route <b>12080 Corporate Parkway</b>	Telephone Number <b>(262) 336-4747</b>	Comments	Date Received	Noted By
City <b>Mequon</b>	State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <b>M. Ems</b>	Date Signed <b>10/27/2023</b>

Facility/Project Name <b>River Point District</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>TW-300</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	St. Plane <u>44.0959</u> ft. N. <u>-87.6648</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>08/30/2023</u> m m d d y y y y
Type of Well Well Code <u>11 / MW</u>	Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 30, T. 19 N, R. 24</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Ben Long</u> Horizon Construction and Exploration LLC
Distance from Waste/Source <input type="checkbox"/> ft. <input type="checkbox"/> Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number <input type="checkbox"/>

A. Protective pipe, top elevation ----- ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation ----- ft. MSL	2. Protective cover pipe: a. Inside diameter: ----- in. b. Length: ----- ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/> <u>N/A</u>
C. Land surface elevation ----- ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom ----- ft. MSL or <u>0.0</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>N/A</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>Geoprobe</u> Other <input checked="" type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added _____ ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top ----- ft. MSL or <u>0.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top ----- ft. MSL or ----- ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top ----- ft. MSL or <u>4.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top ----- ft. MSL or <u>5.0</u> ft.	
I. Well bottom ----- ft. MSL or <u>15.0</u> ft.	
J. Filter pack, bottom ----- ft. MSL or <u>15.0</u> ft.	
K. Borehole, bottom ----- ft. MSL or <u>15.0</u> ft.	
L. Borehole, diameter -- <u>2.3</u> in.	
M. O.D. well casing -- <u>1.3</u> in.	
N. I.D. well casing -- <u>1.0</u> in.	



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

Signature Whitney Cull Firm Stantec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

MW-301

**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.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**

County: Manitowoc      WI Unique Well # of Removed Well: \_\_\_\_\_      Hicap #: \_\_\_\_\_

Latitude / Longitude (see instructions): 44.0958 N      Format Code:  DD      Method Code:  GPS008  
87.6644 W       DDM       SCR002       OTH001

1/4 1/4 NF      1/4 NE      Section: 30      Township: 19 N      Range: 24       E       W  
 or Gov't Lot #

Well Street Address: N 10th St. & N. 11th St.

Well City, Village or Town: Manitowoc      Well ZIP Code: 54220

Subdivision Name: River Point District      Lot #: \_\_\_\_\_

**2. Facility / Owner Information**

Facility Name: River Point District

Facility ID (FID or PWS): \_\_\_\_\_

License/Permit/Monitoring #: \_\_\_\_\_

Original Well Owner: \_\_\_\_\_

Present Well Owner: City of Manitowoc

Mailing Address of Present Owner: 900 Quay Street

City of Present Owner: Manitowoc      State: WI      ZIP Code: 54220

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Reason for Removal from Service: No longer needed      WI Unique Well # of Replacement Well: \_\_\_\_\_

Monitoring Well      Original Construction Date (mm/dd/yyyy): N/A  
 Water Well      If a Well Construction Report is available, please attach: \_\_\_\_\_  
 Borehole / Drillhole

Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): \_\_\_\_\_

Formation Type:  
 Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.): 13      Casing Diameter (in.): 2.0

Lower Drillhole Diameter (in.): \_\_\_\_\_      Casing Depth (ft.): \_\_\_\_\_

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)? \_\_\_\_\_      Depth to Water (feet): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?  Yes       No       N/A

Liner(s) removed?  Yes       No       N/A

Liner(s) perforated?  Yes       No       N/A

Screen removed?  Yes       No       N/A

Casing left in place?  Yes       No       N/A

Was casing cut off below surface?  Yes       No       N/A

Did sealing material rise to surface?  Yes       No       N/A

Did material settle after 24 hours?  Yes       No       N/A

If yes, was hole retopped?  Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?  Yes       No       N/A

Required Method of Placing Sealing Material:  
 Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials:  
 Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

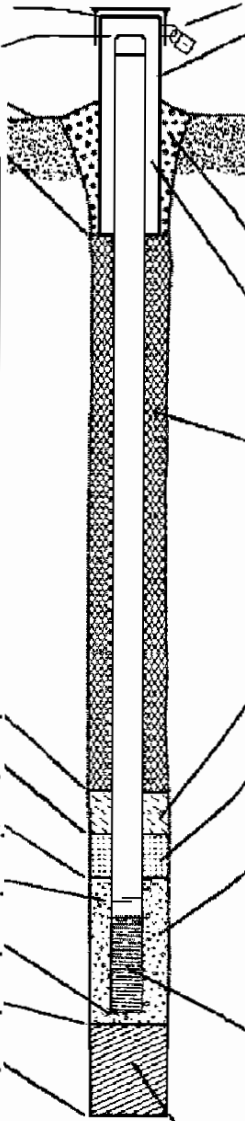
Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>Bentonite Chips</u>	<u>Surface</u>	<u>13</u>	<u>0.25 sack</u>	

**6. Comments**

**7. Supervision of Work**

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Stantec Consulting</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/25/2023</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>12080 Corporate Parkway</u>	Telephone Number: <u>(262) 336-4747</u>	Comments: _____			
City: <u>Mequon</u>	State: <u>WI</u> ZIP Code: <u>53092</u>	Signature of Person Doing Work: <u>M. Ems</u>	Date Signed: <u>10/27/2023</u>		

Facility/Project Name River Point District	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-301
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane 44.0958 ft. N. -87.6644 ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> N	Date Well Installed 0 6 / 3 0 / 2 0 2 3 m m d d y y v v y y
Type of Well Well Code 11 / MW	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 30, T. 19 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Ben Long Horizon Construction and Exploration LLC
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ 0.0 ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen:              GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>              SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input checked="" type="checkbox"/>              Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0              Hollow Stem Auger <input checked="" type="checkbox"/> 4 1              Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1              Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No              Describe _____</p> <p>17. Source of water (attach analysis, if required):              _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or _____ 0.0 ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or _____ 2.0 ft.</p> <p>H. Screen joint, top _____ ft. MSL or _____ 3.0 ft.</p> <p>I. Well bottom _____ ft. MSL or _____ 13.0 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or _____ 13.0 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or _____ 13.0 ft.</p> <p>L. Borehole, diameter _____ 4.3 in.</p> <p>M. O.D. well casing _____ 2.3 in.</p> <p>N. I.D. well casing _____ 2.0 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:              a. Inside diameter: _____ in.              b. Length: _____ ft.              c. Material: Steel <input type="checkbox"/> 0 4              Other <input checked="" type="checkbox"/>              d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No              If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0              Concrete <input type="checkbox"/> 0 1              Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:              Bentonite <input type="checkbox"/> 3 0              Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3              b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5              c. _____ Lbs/gal mud weight . . . . Bentonite slurry <input type="checkbox"/> 3 1              d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0              e. _____ Ft<sup>3</sup> volume added for any of the above              f. How installed: Tremie <input type="checkbox"/> 0 1              Tremie pumped <input type="checkbox"/> 0 2              Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3              b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2              c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size              a. _____              b. Volume added _____ ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size              a. Red Flint #40              b. Volume added _____ ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3              Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4              Other <input type="checkbox"/></p> <p>10. Screen material: PVC              a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1              Continuous slot <input type="checkbox"/> 0 1              Other <input type="checkbox"/></p> <p>b. Manufacturer _____              c. Slot size: 0. 010 in.              d. Slotted length: _____ 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4              Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Whitney Cull Firm Stantec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.



MW-303

**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.

Verification Only of Fill and Seal

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County: Manitowoc      WI Unique Well # of Removed Well: \_\_\_\_\_      Hicap #: \_\_\_\_\_  
 Latitude / Longitude (see instructions): 44.0957 N      Format Code:  DD      Method Code:  GPS008  
87.6651 W       DDM       SCR002       OTH001  
 ¼ / ¼ NE      Section: 30      Township: 19 N      Range: 24       E       W  
 or Gov't Lot #  
 Well Street Address: N 10th St. & N. 11th St.  
 Well City, Village or Town: Manitowoc      Well ZIP Code: 54220  
 Subdivision Name: River Point District      Lot #: \_\_\_\_\_

Facility Name: River Point District  
 Facility ID (FID or PWS): \_\_\_\_\_  
 License/Permit/Monitoring #: \_\_\_\_\_  
 Original Well Owner: \_\_\_\_\_  
 Present Well Owner: City of Manitowoc  
 Mailing Address of Present Owner: 900 Quay Street  
 City of Present Owner: Manitowoc      State: WI      ZIP Code: 54220

Reason for Removal from Service: No longer needed      WI Unique Well # of Replacement Well: \_\_\_\_\_

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well      Original Construction Date (mm/dd/yyyy): N/A  
 Water Well  
 Borehole / Drillhole      If a Well Construction Report is available, please attach.

Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): \_\_\_\_\_

Formation Type:  
 Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.): 13      Casing Diameter (in.): 2.0

Lower Drillhole Diameter (in.): \_\_\_\_\_      Casing Depth (ft.): \_\_\_\_\_

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)? \_\_\_\_\_      Depth to Water (feet): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?       Yes       No       N/A  
 Liner(s) removed?       Yes       No       N/A  
 Liner(s) perforated?       Yes       No       N/A  
 Screen removed?       Yes       No       N/A  
 Casing left in place?       Yes       No       N/A  
 Was casing cut off below surface?       Yes       No       N/A  
 Did sealing material rise to surface?       Yes       No       N/A  
 Did material settle after 24 hours?       Yes       No       N/A  
 If yes, was hole retopped?       Yes       No       N/A  
 If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material  
 Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials  
 Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

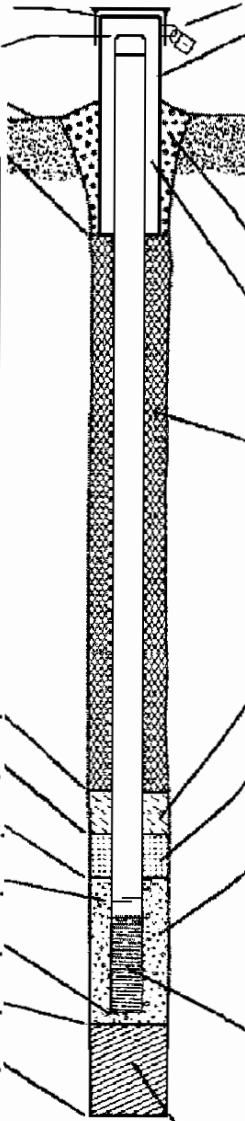
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	13	0.25 Sack	

**6. Comments**

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing: Stantec Consulting      License #: \_\_\_\_\_      Date of Filling & Sealing or Verification (mm/dd/yyyy): 10/25/2023      Date Received: \_\_\_\_\_      Noted By: \_\_\_\_\_  
 Street or Route: 12080 Corporate Parkway      Telephone Number: (262) 336-4747      Comments: \_\_\_\_\_  
 City: Mequon      State: WI      ZIP Code: 53092      Signature of Person Doing Work: M. Ems      Date Signed: 10/27/2023

Facility/Project Name River Point District	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-303
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane 44.0957 ft. N, -87.6651 ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed 06/30/2023 m m d d y y y y
Type of Well Well Code 11 / MW	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 30, T. 19 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Ben Long Horizon Construction and Exploration LLC
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ 0.0 ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or _____ 0.0 ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or _____ 2.0 ft.</p> <p>H. Screen joint, top _____ ft. MSL or _____ 3.0 ft.</p> <p>I. Well bottom _____ ft. MSL or _____ 13.0 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or _____ 13.0 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or _____ 13.0 ft.</p> <p>L. Borehole, diameter _____ 4.3 in.</p> <p>M. O.D. well casing _____ 2.3 in.</p> <p>N. I.D. well casing _____ 2.0 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft<sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size a. _____ b. Volume added _____ ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size a. Red Flint #40 b. Volume added _____ ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Whitney Cull Firm Stantec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

MW-304

**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:

Verification Only of Fill and Seal

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other:

**1. Well Location Information** **2. Facility / Owner Information**

County: Manitowoc WI Unique Well # of Removed Well: \_\_\_\_\_ Hicap #: \_\_\_\_\_

Latitude / Longitude (see instructions): 44.0957 N 87.6649 W Format Code:  DD  DDM Method Code:  GPS008  SCR002  OTH001

1/4 1/4 NE 1/4 NE Section: 30 Township: 19 N Range: 24  E  W

Well Street Address: N 10th St. & N. 11th St.

Well City, Village or Town: Manitowoc Well ZIP Code: 54220

Subdivision Name: River Point District Lot #: \_\_\_\_\_

Facility Name: River Point District

Facility ID (FID or PWS): \_\_\_\_\_

License/Permit/Monitoring #: \_\_\_\_\_

Original Well Owner: \_\_\_\_\_

Present Well Owner: City of Manitowoc

Mailing Address of Present Owner: 900 Quay Street

City of Present Owner: Manitowoc State: WI ZIP Code: 54220

Reason for Removal from Service: No longer needed WI Unique Well # of Replacement Well: \_\_\_\_\_

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well  Water Well  Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): N/A

If a Well Construction Report is available, please attach: \_\_\_\_\_

Construction Type:  Drilled  Driven (Sandpoint)  Dug  Other (specify): \_\_\_\_\_

Formation Type:  Unconsolidated Formation  Bedrock

Total Well Depth From Ground Surface (ft.): 13 Casing Diameter (in.): 2.0

Lower Drillhole Diameter (in.): \_\_\_\_\_ Casing Depth (ft.): \_\_\_\_\_

Was well annular space grouted?  Yes  No  Unknown

If yes, to what depth (feet): \_\_\_\_\_ Depth to Water (feet): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?  Yes  No  N/A

Liner(s) removed?  Yes  No  N/A

Liner(s) perforated?  Yes  No  N/A

Screen removed?  Yes  No  N/A

Casing left in place?  Yes  No  N/A

Was casing cut off below surface?  Yes  No  N/A

Did sealing material rise to surface?  Yes  No  N/A

Did material settle after 24 hours?  Yes  No  N/A

If yes, was hole retopped?  Yes  No  N/A

If bentonite chips were used, were they hydrated with water from a known safe source?  Yes  No  N/A

Required Method of Placing Sealing Material:  Conductor Pipe-Gravity  Conductor Pipe-Pumped  Screened & Poured (Bentonite Chips)  Other (Explain): \_\_\_\_\_

Sealing Materials:  Neat Cement Grout  Concrete  Sand-Cement (Concrete) Grout  Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:  Bentonite Chips  Bentonite - Cement Grout  Granular Bentonite  Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	13	0.25 Sack	

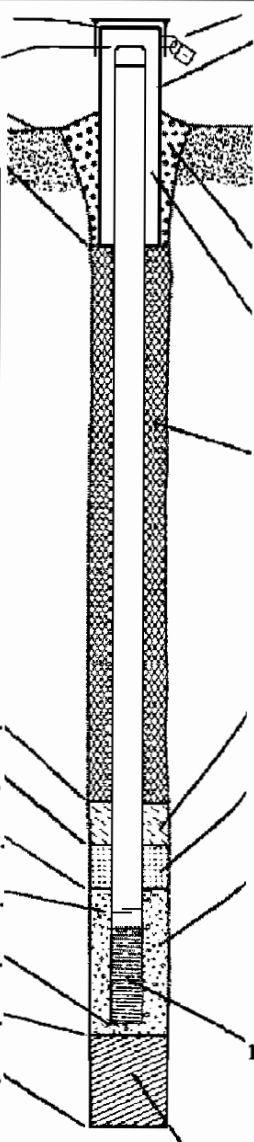
**6. Comments**

**7. Supervision of Work**

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Stantec Consulting</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/25/2023</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>12080 Corporate Parkway</u>	Telephone Number: <u>(262) 336-4747</u>	City: <u>Mequon</u>	State: <u>WI</u>	ZIP Code: <u>53092</u>	Signature of Person Doing Work: <u>M. Ems</u>
				Date Signed: <u>10/27/2023</u>	Comments: _____

Facility/Project Name River Point District	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-304
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane 44.0957 ft. N. -87.6649 ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed 0 6 / 3 0 / 2 0 2 3 m m d d y y v v y
Type of Well Well Code 11 / MW	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 30, T. 19 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Ben Long Horizon Construction and Exploration LLC
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint #40 b. Volume added _____ ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ 0.0 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ ft.	b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
G. Filter pack, top _____ ft. MSL or _____ 2.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or _____ 3.0 ft.	
I. Well bottom _____ ft. MSL or _____ 13.0 ft.	
J. Filter pack, bottom _____ ft. MSL or _____ 13.0 ft.	
K. Borehole, bottom _____ ft. MSL or _____ 13.0 ft.	
L. Borehole, diameter _____ 4.3 in.	
M. O.D. well casing _____ 2.3 in.	
N. I.D. well casing _____ 2.0 in.	



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

Signature Whitney Cull Firm Stantec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

MW-305

**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.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Manitowoc</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>River Point District</b>
Latitude / Longitude (see instructions) 44.0957 N 87.6645 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 / 1/4 <b>NF</b> 1/4 <b>NE</b> or Gov't Lot #	Section <b>30</b>	Township <b>19 N</b>	License/Permit/Monitoring #
		Range <input checked="" type="checkbox"/> <b>E</b> <input type="checkbox"/> W	Original Well Owner
Well Street Address <b>N 10th St. &amp; N. 11th St.</b>	Well ZIP Code <b>54220</b>	Present Well Owner <b>City of Manitowoc</b>	
Well City, Village or Town <b>Manitowoc</b>	Well ZIP Code <b>54220</b>	Mailing Address of Present Owner <b>900 Quay Street</b>	
Subdivision Name <b>River Point District</b>	Lot #	City of Present Owner <b>Manitowoc</b>	State <b>WI</b>
			ZIP Code <b>54220</b>

**3. Filled & Sealed Well / Drillhole / Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason for Removal from Service <b>No longer needed</b>	WI Unique Well # of Replacement Well	<input checked="" type="checkbox"/> Pump and piping removed?    Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Liner(s) removed?                Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Liner(s) perforated?                Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Screen removed?                        Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Casing left in place?                    Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <b>N/A</b>	<input checked="" type="checkbox"/> Was casing cut off below surface?    Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Did sealing material rise to surface?    Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped?            Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	If a Well Construction Report is available, please attach.	<b>Required Method of Placing Sealing Material</b> <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Total Well Depth From Ground Surface (ft.) <b>13</b>	Casing Diameter (in.) <b>2.0</b>	<b>Sealing Materials</b> <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	<b>For Monitoring Wells and Monitoring Well Boreholes Only:</b> <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, to what depth (feet)?	Depth to Water (feet)	

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<b>13</b>	<b>0.25 Sack</b>	

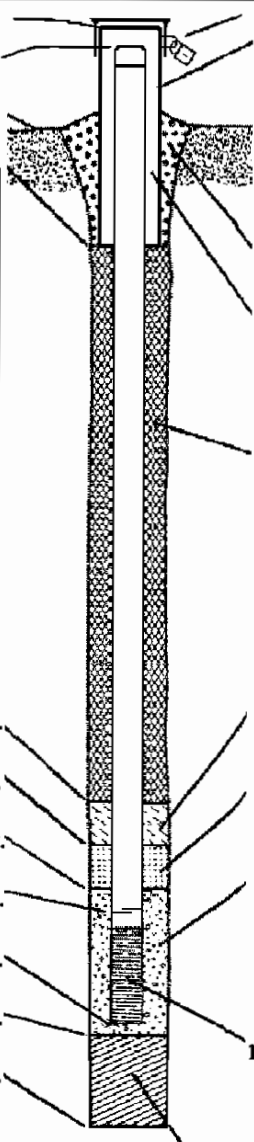
**6. Comments**

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>Stantec Consulting</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/25/2023</b>	Date Received	Noted By
Street or Route <b>12070 Corporate Parkway</b>	Telephone Number <b>(262) 336-4747</b>	Comments		
City <b>Mequon</b>	State <b>WI</b>	ZIP Code <b>53092</b>	Signature of Person Doing Work <b>M. Ewert</b>	Date Signed <b>10/27/2023</b>

Facility/Project Name River Point District	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-305
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane 44.0957 ft. N. -87.6645 ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N	Date Well Installed 0 6 / 3 0 / 2 0 2 3 m m d d y y v v y
Type of Well Well Code 11 / MW	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 30, T. 19 N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Ben Long Horizon Construction and Exploration LLC
Distance from Waste/ Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 0 4 Other <input checked="" type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ 0.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint #40 b. Volume added _____ ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ 0.0 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ ft.	b. Manufacturer _____ c. Slot size: 0. 010 in. d. Slotted length: _____ 10.0 ft.
G. Filter pack, top _____ ft. MSL or _____ 2.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or _____ 3.0 ft.	
I. Well bottom _____ ft. MSL or _____ 13.0 ft.	
J. Filter pack, bottom _____ ft. MSL or _____ 13.0 ft.	
K. Borehole, bottom _____ ft. MSL or _____ 13.0 ft.	
L. Borehole, diameter _____ 4.3 in.	
M. O.D. well casing _____ 2.3 in.	
N. I.D. well casing _____ 2.0 in.	



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

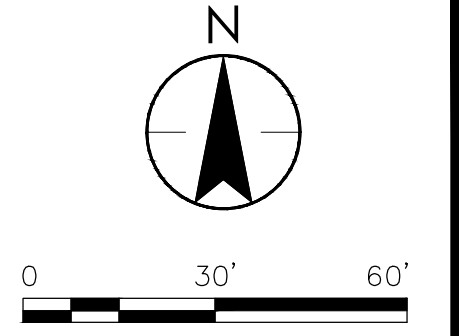
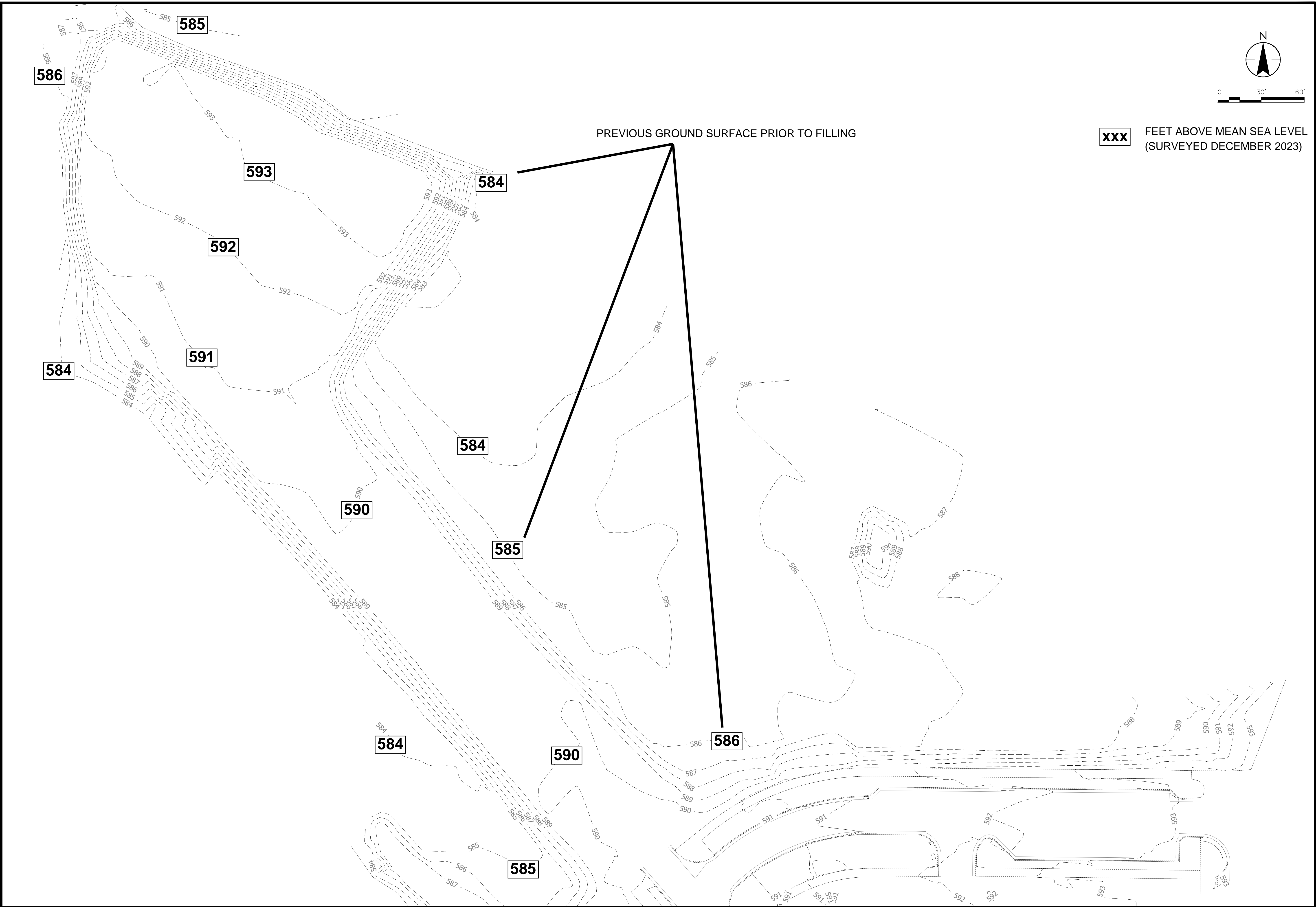
Signature Whitney Cull Firm Stantec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

**Attachment C**  
**Interim Project Area Grades**  
**(December 2023)**

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OR FOR ANY USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC. IS FORBIDDEN.

Plot Date: 01/17/2024 - 2:47pm  
Drawing name: C:\Users\lvmoring\AppData\Local\Microsoft\Windows\InetCache\Content.Outlook\1D048KQP\19380051 5 - TOPO AS BUILT 12-05-23.dwg  
User: lvmoring



**xxx** FEET ABOVE MEAN SEA LEVEL (SURVEYED DECEMBER 2023)



**INTERIM PROJECT AREA GRADES (DECEMBER 2023)**

RIVER POINT FILL  
CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN

DATE OF ISSUANCE  
January 17, 2024

NO	REVISION	DATE

SURVEY
DRAWN
DESIGNED
CHECKED
APPROVED
PROJ. NO. 193709261

SHEET NUMBER  
**1**