

Former CN Property Limited Site Investigation

200 North 10th Street & 1110 Buffalo Street, Manitowoc, WI WCS-097

Wisconsin Department of Natural Resources

Project number: 60615404

May 8, 2020

Quality information

Prepared by Checked by Verified by Approved by

Jennifer Kubicek Lanette Altenbach, PG Paul Sklar, PG Lanette Altenbach, PG Staff Engineer

NR712 Certification

This Limited Site Investigation was conducted by personnel with the appropriate qualifications required by NR 712.02 (1), NR 712.05 and NR 712.07. AECOM provides the following certification as required by NR712.09:

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

Anette Altenback, P.G., CPG

May 12, 2020

Date

Lanette Altenbach, P.G., CPG Senior Hydrogeologist



Distribution List

| # Hard Copies | Electronic Copies | Association / Company Name |
|---------------|----------------------|--|
| 1 | 1 | Tom Coogan, WDNR, Madison, WI |
| 1 | 1 | Tauren Beggs, WDNR, Green Bay, WI |
| 1 | 1 - CD | Paul Braun, City of Manitowoc, Manitowoc, WI |

Prepared for:

Wisconsin Department of Natural Resources WCS-097

Copyright © 2020 by AECOM

All rights reserved. No part of this copyrighted work may be reproduced, distributed, or transmitted in any form or by any means without the prior written permission of AECOM.

Table of Contents

| | Exe | cutive Summary | iii |
|----|------|--|-----|
| 1. | | oduction | |
| | 1.1 | Purpose | 1 |
| | 1.2 | Site Location | 1 |
| | 1.3 | Contact Information | 1 |
| | 1.4 | Physical Setting | 1 |
| | 1.5 | Potential Migration Pathways and Potential Receptors | 2 |
| 2. | Inve | stigation Methods | 3 |
| | 2.1 | Project Scope | 3 |
| | 2.2 | Soil Boring | 3 |
| | 2.3 | Groundwater Monitoring Well Installation, Development & Sampling | 3 |
| | 2.4 | Temporary Well Abandonment | 4 |
| | 2.5 | Investigation-derived Waste | 4 |
| 3. | Res | ults | 5 |
| | 3.1 | Soil Results | 5 |
| | 3.2 | Groundwater Results | 5 |
| 4. | Con | clusions | 6 |
| 5. | Refe | erences | 7 |
| 6. | Gen | eral Qualifications | 8 |

Tables

- Table 1 Groundwater Sample Analytes by Monitoring Well
- Table 2 Groundwater Field Parameters
- Table 3 Groundwater Analytical Results

Figures

- Figure 1 Site Location Map
- Figure 2 Site Layout and Sample Locations
- Figure 3 Groundwater Analytical Results

Appendices

- Appendix A Soil Boring Logs
- Appendix B Well Construction Forms and Development Forms
- Appendix C Temporary Well Sealing Reports (Form 5500-005)
- Appendix D Data Validation Memo
- Appendix E Laboratory Analytical Reports

Executive Summary

AECOM was retained by the Wisconsin Department of Natural Resources (Client) to conduct a Limited Site Investigation (SI) at the former CN Property located at 200 North 10th Street & 1110 Buffalo Street in Manitowoc, Manitowoc County, Wisconsin (Property). The SI was conducted on behalf of the Client under a Wisconsin Assessment Monies (WAM) Contractor Services Award (WCS-097) to assist in defining the degree and extent of contamination.

The Property is located on a peninsula formed by the Manitowoc River and bound to the east by North 10th and 11th Streets, Manitowoc, Manitowoc County, Wisconsin. The property consists of approximately 20 acres of largely vacant former railroad/industrial Land.

As noted in the Phase I ESA, records suggest that the Property has been owned by the railroad since the late 19th century; other industrial occupants include bulk petroleum storage, ship building, grain storage/elevator, metal/scrap/junk yard storage, and transloading of stone. The surrounding properties are a mix of commercial and industrial properties. Recognized environmental concerns (RECs) identified at the property include: prior railroad use, prior industrial use, residual impacts to soil and groundwater, apparent anthropogenic fill, storage/dumping by adjacent property owners, and residual impacts to soil and groundwater on adjacent properties.

AECOM advanced fifteen soil borings on the Property using a hollow stem auger; soil borings were advanced adjacent to, but offset by about 5 feet, existing temporary wells at the Property. Soil samples were not included in the scope of work. Soil borings were completed as NR141 compliant groundwater monitoring wells and one groundwater sample was collected from each well. Analyses of groundwater samples included volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and eight RCRA metals.

Soils encountered generally consisted of sand and gravel fill from approximately 0 to six feet below ground surface (bgs); deeper soils consisted of silty sand or silty clay to a depth of 13.5 ft bgs. The depth to groundwater measured in the temporary wells ranged from three feet to seven feet bgs.

Our conclusions include:

- VOCs detected above NR140 enforcement standards (ES) or preventive action limits (PAL) included benzene and tetrachloroethylene (PCE). PAL and ES exceedances for VOCs were limited to Site 3, at the north end of the property. Benzene was detected above the ES in 3_MW-58 and PCE was detected above the PAL in 3_MW-27 and 3_MW-58.
- PAHs detected above their respective NR140 ES included benzo(a)pyrene, benzo(b)fluoranthene, and chrysene at 3_MW-45 and 1_MW-14. Naphthalene was detected above its NR140 PAL at 3_MW-45.
- RCRA metals were not detected above their respective NR140 ES in any groundwater samples.
 Arsenic was detected above the respective NR140 PAL in wells 1_MW-35, 1_MW-36, 3_MW-11, 3_MW-45, 3_MW-58, and 3_MW-64. Barium was detected above the NR140 PAL in 1_MW-39.

1. Introduction

1.1 **Purpose**

AECOM was retained by the Wisconsin Department of Natural Resources (Client) to conduct a Limited Site Investigation (SI) at the former CN Property located at 200 North 10th Street & 1110 Buffalo Street in Manitowoc, Manitowoc County, Wisconsin (Property). The SI was conducted on behalf of the Client and under a Wisconsin Assessment Monies (WAM) Contractor Services Award (WCS-097). This SI was performed to supplement other redevelopment environmental assessment activities at the Property.

The scope of the limited SI was based on a Phase I Environmental Site Assessments report provided to AECOM, as well as input from the WDNR regarding scope considerations. AECOM has not conducted an assessment of the site and has not come to a professional opinion that other issues are not present.

1.2 **Site Location**

The Property is located on a peninsula formed by the Manitowoc River and bound to the east by North 10th and 11th Streets, Manitowoc, Manitowoc County, Wisconsin. The property consists of approximately 20 acres of largely vacant former railroad/industrial Land. The Property is bordered by a mix of commercial and industrial properties to the north, south, east and west by commercial properties and to the east by residential properties. The location of the Property is depicted on Figure 1. The Property has a history of use by the railroad and other industries.

1.3 **Contact Information**

The following are interested parties in this site investigation.

WAM Applicant:

City of Manitowoc 900 Quay Street Manitowoc, WI 54220

Contact: Paul Braun, 920-686-6930

Regulatory Agency:

Wisconsin Department of Natural Resources 101 South Webster Street - RR/5 Madison, WI 53707-7921

Contact: Tom Coogan, 608-267-7560

2984 Shawano Avenue

Green Bay, Wisconsin, 54313-6727 Contact: Mr. Tauren Beggs, 920-662-5178

Investigation Derived Waste Disposal:

Covanta Environmental Solutions 210 Tower Road Winneconne, WI 54986

Contact: Steve Sternard, 920-912-5188

Consultant:

AECOM

1555 N. RiverCenter Drive, Suite 214

Milwaukee, WI 53212

Contact: Lanette Altenbach, 414-944-6186

Analytical Laboratory:

Pace Analytical Services 1241 Bellevue Street, Suite 9

Green Bay, WI 54302

Contact: Christopher Hyska, 920-321-9405

Drilling Subcontractor

On-Site Environmental Services, Inc.

P.O. Box 280

Sun Prairie, WI 53590

Contact: Kim Kapugi, 608-837-8992

1.4 **Physical Setting**

Surface elevation at the Property ranges from approximately 592 to 588 feet above mean sea level (AMSL), and ground surface decreases radially in an overall westerly direction towards the Manitowoc River. Based on the topography, stormwater/surface water at the Property infiltrates the ground surface or is conveyed through a storm sewer to the Manitowoc River. The Property is bound to the north, west, and south by the Manitowoc River, which flows in an overall easterly direction, towards Lake Michigan.

Stantec's previous investigations indicated surface soils beneath the Property consist of anthropogenic fill/reworked native soils underlain by sand and further underlain by clay. Slight variations occur across Sites 1 and 3. Soil boring logs completed on Site 1 generally indicate coarse-grained sand and sandy gravel fill with pulverized concrete and stone in the uppermost approximately 3.5 feet below ground surface (bgs). The fill overlies sand and silty sand to depths ranging between approximately six and 11 feet bgs. Clay and silty clay generally occur beneath the sand. Soil boring logs completed on Site 3 similarly indicate course-grained sandy gravel fill from round surface to approximately six feet bgs overlying an approximately one-foot thick peat layer. Silty sand and clay occur beneath the peat layer.

Regionally, the entire area is underlain by Silurian age bedrock of the Niagaran series. The depth to bedrock is between 50 and 100 feet in this area (Trotta & Cotter, 1973).

As measured in temporary monitoring wells, groundwater occurs within the fill materials between approximately 1.5 and 6.5 ft bgs. Shallow groundwater flow beneath the Property is influenced by the elevation of the Manitowoc River with anticipated radial flow toward the river.

1.5 Potential Migration Pathways and Potential Receptors

Exposures to receptors from potential contamination include direct contact with soil and the potential for soil impacts to extend to and migrate within the groundwater system. Other potential receptors include the Manitowoc River and Lake Michigan.

2. Investigation Methods

2.1 Project Scope

The purpose of this SI was supplement other redevelopment environmental assessment activities at the Property. The scope of work included the installation of fifteen Wisconsin Administrative Code, Chapter NR141 water table monitoring wells for groundwater sampling. Each boring/well location was directly adjacent to an existing temporary monitoring well completed as part of a Phase II ESA (see Stantec's Figure 8) and included seven locations at Site 1 and eight locations at Site 3.

2.2 Soil Boring

AECOM advanced fifteen soil borings on the Property on March 3 and 4, 2020, using a hollow-stem auger. Soil borings were advanced adjacent to, but offset by about 5 feet, existing temporary wells at the Property. The soil borings were advanced to depths of approximately 13-14 feet bgs as shown on the soil boring logs in Appendix A. Representative soil samples, including fill materials were described in general conformance with the Unified Soil Classification System. Soil samples were not collected as part of the scope of work. The WDNR soil boring log forms (Form 4400-122) are provided in Appendix A.

Soils observed at the Property concur with the descriptions included in the Phase I ESA as described in Section 1.4 of this report.

2.3 Groundwater Monitoring Well Installation, Development & Sampling

Fifteen NR 141-compliant groundwater monitoring wells were installed on March 5, 2020 after completion of each associated soil boring. Existing temporary wells were abandoned once the NR 141-compliant monitoring wells were installed. The monitoring well locations are depicted in Figure 2.

The wells were constructed of two-inch diameter polyvinyl chloride (PVC) riser pipes with 0.01-inch-slot size PVC screens that were 10 feet long. In lieu of the proposed sampling method using a peristaltic pump, development of the well consisted of surging and purging with a bailer for 30 minutes followed by purging with a bladder pump until 10 well volumes are removed or until the well produced sediment free water. Three of the fifteen wells installed were pumped dry: wells 1_MW-17, 1_MW-19, 1_MW-43. Well construction forms and well development forms are included in Appendix B.

One groundwater sample was collected from each of the newly installed wells and existing NR 141-compliant well 3_MW-27 on March 18-20, 2020. In lieu of the proposed sampling method using a peristaltic pump, wells were sampled using low-flow purging with a bladder pump and disposable bladders. A new bladder and new tubing was used for each well. Purge volume was determined by the stabilization of field parameters. The groundwater sample analytes for each monitoring well is included as Table 1. The depth to groundwater and field parameters at the time of sampling are listed in Table 2.

Groundwater samples were placed in pre-cleaned and preserved, laboratory-supplied sample jars and submitted to Pace Analytical for laboratory analysis of VOCs (EPA Method 8260), PAHs, and RCRA metals. Sample labels were adhered to each sample jar and contained the sample identification number (with reference to client, facility, and boring number), date and time of collection, analysis to be conducted, preservative, and sampler's initials. The samples were transported by AECOM in coolers containing ice using standard COC procedures.

2.4 Temporary Well Abandonment

Each temporary well that was replaced by an NR-141 compliant monitoring well was abandoned after the new well was installed. The temporary well (SB-27/TW-27) replaced by the previously installed 3_MW-27 was also abandoned. The temporary wells associated with the newly installed wells which were abandoned included:

| SB-11/TW-11 | SB-64/TW-64 | SB-17/TW-17 |
|-------------|-------------|-------------|
| SB-14/TW-14 | SB-72/TW-72 | SB-19/TW-19 |
| SB-20/TW-20 | SB-77/TW-77 | SB-35/TW-35 |
| SB-45/TW-45 | SB-10/TW-10 | SB-39/TW-39 |
| SB-58/TW-58 | SB-14/TW-14 | SB-43/TW-43 |

The temporary wells were abandoned by removing the PVC riser and casing from the borehole. The boring was then backfilled with granular bentonite from its total depth to the surface. WDNR Form 3300-005 Well / Drillhole / Borehole Filling and Sealing Reports are included as Appendix C.

2.5 Investigation-derived Waste

Investigation-derived waste (soil cuttings or purged groundwater) generated during the soil boring and well installation activities were compiled into 55-gallon drums on the property. A composite sample was collected for proper drum disposal, results indicate the soil cuttings are non-hazardous. A total of 13 drums of soil cuttings were generated during soil boring and well installation activities.

Purge water from well development and sampling was collected in 55-gallon drums. Thirteen drums of purge water were accumulated during well development and sampling.

3. Results

Groundwater analytical results are compared to Wisconsin Groundwater Quality standards in WAC Ch. NR 140.10. Wisconsin has two levels of groundwater quality standards. The first level, the Preventive Action Limit (PAL), is a concentration that is 10% (for carcinogenic, mutagenic or teratogenic compounds) to 20% (non-carcinogenic) of the Enforcement Standards (ES). The PAL has been established as the concentration at which notification to the WDNR is required. Remedial action is not always required if a PAL is exceeded. The ES is a health-risk based concentration and exceedances of ESs usually result in further subsurface investigation, remedial action requirements, or monitoring.

Laboratory analytical reports generated as part of this limited SI are provided in Appendix D.

3.1 Soil Results

Soils encountered in Site 1 consisted of sand and fill from approximately 0 to up to 4 ft bgs; deeper soils consisted of silty sand and silty clay to a depth of 13.5 ft bgs. Soils encountered in Site 3 consisted of consisted of poorly graded sand and gravel fill from approximately 0.5 to 6 ft bgs; some areas had up to 6 ft of sandy or silty clay and clay. Deeper soils in Site 3 generally consisted of silty clay or sandy silt up to 13.5 ft bgs. Soil descriptions are provided on the soil boring log forms (WDNR Form 440-122) included as Appendix A.

Soil samples were not included in the scope of work.

3.2 Groundwater Results

The depth to groundwater measured in the temporary wells after an approximately one-week equilibration period following installation, ranged from 3.11 feet to 6.93 feet bgs. Groundwater field parameters and depth to water collected prior to testing are included in Table 2. Detected analytes in groundwater are provided in Table 3.

VOCs were detected in groundwater samples collected from 1_MW-35, 3_MW-27, and 3_MW-58. Benzene was detected above the NR 140 ES in well 3_MW-58; Tetrachloroethylene (PCE) was detected above the NR140 PAL in wells 3_MW-27 and 3_MW-58. Petroleum odor was noted at 3_MW-58.

PAHs detected above their respective NR140 ES included benzo(a)pyrene, benzo(b)fluoranthene, and chrysene at 3-MW-45 and 1-MW-14. Naphthalene was detected above its NR140 PAL at 3_MW-45.

RCRA metals were not detected above their respective NR140 ES in any groundwater samples. Arsenic was detected above the respective NR140 PAL in wells 1_MW-35, 1_MW-36, 3_MW-11, 3_MW-45, 3_MW-58, and 3_MW-64. Barium was detected above the NR140 PAL in 1_MW-39.

The groundwater results are depicted in Figure 3.

4. Conclusions

The purpose of this SI was supplement other redevelopment environmental assessment activities at the Property. The scope of work included the advancement of fifteen soil boring sand completion of those borings as water table observation wells to obtain groundwater samples and assist in evaluating the RECs identified in Stantec's March 2019 Phase I ESA.

Fifteen soil borings were advanced adjacent to previously installed temporary wells; all fifteen soil borings were completed as NR 141-compliant monitoring wells. The previously installed temporary wells were abandoned. Soils encountered were generally consistent with those presented in the Stantec Phase I ESA and consisted of fill materials to depths of up to 6 feet bgs overlying silty clay or sandy silt. Soil samples were not included in the scope of work.

Fifteen water table observation wells were completed, developed, and sampled. Groundwater samples were analyzed for parameters spelled out in AECOM's *Sampling and Analysis Plan*.

Our conclusions include:

- VOCs detected above NR140 enforcement standards (ES) or preventive action limits (PAL) included benzene and tetrachloroethylene (PCE). PAL and ES exceedances for VOCs were limited to Site 3, at the north end of the property. Benzene was detected above the ES in 3_MW-58 and PCE was detected above the PAL in 3 MW-27 and 3 MW-58.
- PAHs were detected above their respective NR140 ES and in both Site 1 and Site 3.
 Benzo(a)pyrene, benzo(b)fluoranthene, and chrysene at 3-MW-45 and 1-MW-14. Naphthalene was detected above its NR140 PAL at 3 MW-45.
- RCRA metals were not detected above their respective NR140 ES in any groundwater samples, but above PALs in both Site 1 and Site 3. Arsenic was detected above the respective NR140 PAL in wells 1_MW-35, 1_MW-36, 3_MW-11, 3_MW-45, 3_MW-58, and 3_MW-64. Barium was detected above the NR140 PAL in 1_MW-39.

5. References

- AECOM, 2019, Sampling and Analysis Plan/Proposal for a Limited Site Investigation at the Former CN Property, Manitowoc, Wisconsin, WDNR File Ref: WCS-097, prepared for the Wisconsin Department of Natural Resources.
- Stantec Consulting Services, Inc, March 2019, 10th Street Railroad Property, Manitowoc, Wisconsin, Phase II Environmental Site Assessment, prepared for The Community Development Authority of the City of Manitowoc, Wisconsin.
- Stantec Consulting Services, Inc, March 2019, 10th Street Railroad Property, Manitowoc, Wisconsin, Phase I Environmental Site Assessment, prepared for The Community Development Authority of the City of Manitowoc, Wisconsin.

6. General Qualifications

The purpose of this environmental assessment is to investigate possible soil and/or groundwater impacts, and related liabilities, associated with past and current property uses. The extent of the investigation is limited to the area and location described in this report.

AECOM has prepared this report at the request of its client. AECOM assumes responsibility for the accuracy of the report's content, subject to what is stated elsewhere in this section. AECOM recommends the report be used only for the purpose intended by the client and AECOM, as stated in the report. AECOM disclaims responsibility for the application or interpretation of the results by anyone other than the client. Reliance on the contents of this report by anyone other than the client, without the prior expressed written consent of AECOM, is done at the sole risk of the user.

The results, conclusions, and recommendations presented in this report are based on the data obtained from a limited number of soil boring locations and at the soil sample and groundwater sample locations as indicated in this report. Variations in conditions can occur between these boring, soil sample, and groundwater sample locations. In addition, seasonal and annual fluctuations of the groundwater table, which may influence the distribution of contaminants, can occur. Actual groundwater flow rates may vary from those estimated in this report based on soil conditions.

This report has been prepared in conformance with the care and skill ordinarily exercised by reputable members of the professional engineering community practicing under similar conditions at the same time in the same or similar locality. No other warranty of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended.

Project number: 60615404

TABLES

Table 1 Groundwater Sample Analytes by Monitoring Well

Table 2 Groundwater Field Parameters

Table 3 Groundwater Analytical Results

Table 1 Groundwater Sample Analytes by Monitoring Well 200 N 10th St and 1110 Buffalo St Manitowoc, Wisconsin

| Monitoring Well / | Well Depth ¹ | | | Constitu | ents | |
|----------------------|-------------------------|-----|-----|--------------------------|----------------------|-------------------|
| Sample ID | (Feet) | PAH | VOC | Dissolved RCRA Metals | Dissolved Arsenic | Dissolved Lead |
| 1_MW-10 | 14.99 | 1 | 1 | 1 | | |
| 1_MW-14 | 14.69 | 1 | | 1 | | |
| 1_MW-17 | 15.20 | 1 | 1 | | 1 | |
| 1_MW-19 | 15.31 | | | | 1 | |
| 1_MW-35 | 15.08 | 1 | 1 | 1 | | |
| 1_MW-35D | 15.06 | 1 | 1 | 1 | | |
| 1_MW-39 | 14.91 | 1 | | 1 | | |
| 1_MW-43 | 15.30 | | | | 1 | 1 |
| 3_MW-11 | 15.04 | 1 | | | 1 | |
| 3_MW-14 | 15.35 | 1 | | | | |
| 3_MW-20 | 15.15 | 1 | | | | |
| 3_MW-27 | 15.09 | 1 | 1 | | 1 | |
| 3_MW-27D | 13.09 | 1 | 1 | | 1 | |
| 3_MW-45 | 15.33 | 1 | | | 1 | |
| 3_MW-58 | 15.31 | 1 | 1 | | 1 | |
| 3_MW-64 | 15.05 | 1 | | | 1 | |
| 3_MW-72 | 15.36 | 1 | | | 1 | _ |
| 3_MW-77 | 15.00 | 1 | | | 1 | |

Notes:

PAH = Polycyclic Aromatic Hydrocarbons

VOC = Volatile Organic Compounds

RCRA = Resource Conservation and Recovery Act

D is for duplicate

¹ Total depth measured inside from top of well casing

Table 2
Groundwater Field Parameters
Limited Site Investigation - Former CN Property
Manitowoc, WI

| Monitoring Well | Depth to Water | Temperature | рН | Conductivity | Turbidity | Dissolved Oxygen | ORP |
|-----------------------------------|-------------------|-------------|---------|------------------|-----------|---------------------|------|
| | (ft BTOC) | (°C) | (Units) | (µs/cm) | (NTU) | (%) | (mV) |
| 1_MW-10 | 6.23 | 4.68 | 5.88 | 0.798 | 6.9 | 5.98 | -47 |
| 1_MW-14 | 6.93 | 4.25 | 5.61 | 1.04 | 4.3 | 4.04 | 102 |
| 1_MW-17 | 3.11 | 4.4 | 6.36 | 0.456 | 16.4 | 9.96 | -52 |
| 1_MW-19 | 4.4 | | insuffi | cient water volu | ıme | | |
| 1_MW-35 | 4.16 | 4.03 | 5.43 | 1.65 | 9.7 | 4.28 | -92 |
| 1_MW-39 | 4.52 | 4.64 | 5.16 | 6.57 | 4.2 | 3.45 | -97 |
| 1_MW-43 | 5.23 | | insuffi | cient water volu | ıme | | |
| 3_MW-11 | 3.39 | 3.32 | 5.46 | 1.18 | 9.3 | 5.14 | -110 |
| 3_MW-14 | 3.28 | 2.67 | 5.51 | 1.26 | 2.4 | 4.18 | -120 |
| 3_MW-20 | 4.09 | 2.94 | 5.9 | 1.16 | 7.7 | 1.74 | 16 |
| 3_MW-27 (previously installed) | 5.59 | 2.62 | 5.95 | 0.568 | 0.5 | 2.71 | 180 |
| 3_MW-45 | 3.35 | 4.01 | 5.67 | 0.986 | 8.7 | 2.12 | -56 |
| 3_MW-58 | 5 | 5.57 | 6.17 | 0.818 | 15.6 | 10.31 | -73 |
| 3_MW-64 | 4.27 | 3.86 | 5.81 | 0.734 | 9.1 | 3.41 | -70 |
| 3_MW-72 | 5.43 | 4.89 | 6.17 | 0.89 | 8.4 | 2.54 | 212 |
| 3_MW-77 | 6.14 | 4.42 | 6.25 | 1.33 | 36.2 | 11.91 | 271 |

ft BTOC = feet below top of casing

°C = degrees celcius

mg/l = milligrams per liter.

µs/cm -microsiemens per centimeter

NTU = Nephelometric turbidity units

% = percent

mV = millivolts

Table 3 **Groundwater Analytical Results** Limited Site Investigation - Former CN Property Manitowoc, Wisconsin

| | Groundwa | ater Quality | 1 MW-10 | 1 MW-14 | 1 MW-17 | 1 MW-19 | 1 MW-35 | 1 MW-35D | 1 MW-39 | 1 MW-43 | 3 MW-11 | 3 MW-14 | 3 MW-20 | 3 MW-27 | 3 MW-27D | 3 MW-45 | 3 MW-58 | 3 MW-64 | 3 MW-72 | 3 MW-77 |
|-------------------------------|--------------|--------------|--------------------|---------------------|---------------------|-----------|-------------------------|---------------------|---------------------|-------------------|---------------------|------------------------|--------------------|-------------------|-------------------|--------------------|-------------------|---------------------|--------------------|---------------------|
| | Stan | dards | 3/18/2020 | 3/18/2020 | 3/19/2020 | 3/18/2020 | 3/18/2020 | 3/18/2020 | 3/18/2020 | 3/18/2020 | 3/19/2020 | 3/19/2020 | 3/19/2020 | 3/20/2020 | 3/20/2020 | 3/19/2020 | 3/20/2020 | 3/19/2020 | 3/20/2020 | 3/20/2020 |
| Analyte | ES | PAL | | | | | | | | | | | | | | | | | | |
| Detected VOCs (µg/L) | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | | | < 0.84 | NA | < 0.84 | NA | < 0.84 | < 0.84 | NA | NA | NA | NA | NA | < 0.84 | < 0.84 | NA | 279 | NA | NA | NA |
| 1,3,5-Trimethylbenzene | | | < 0.87 | NA | < 0.87 | NA | < 0.87 | < 0.87 | NA | NA | NA | NA | NA | < 0.87 | < 0.87 | NA | 79.6 | NA | NA | NA |
| Benzene | 5 | 0.5 | < 0.25 | NA | < 0.25 | NA | < 0.25 | < 0.25 | NA | NA | NA | NA | NA | < 0.25 | < 0.25 | NA | 15.3 | NA | NA | NA |
| Ethylbenzene | 700 | 140 | < 0.32 | NA | < 0.32 | NA | < 0.32 | < 0.32 | NA | NA | NA | NA | NA | < 0.32 | < 0.32 | NA | 112 | NA | NA | NA |
| Isopropylbenzene (Cumene) | | | < 1.7 | NA | < 1.7 | NA | < 1.7 | < 1.7 | NA | NA | NA | NA | NA | < 1.7 | < 1.7 | NA | 15.5 | NA | NA | NA |
| m,p-Xylenes n-Butylbenzene | | | < 0.47 < 0.71 | NA NA | < 0.47 < 0.71 | NA NA | < 0.47 < 0.71 | < 0.47 < 0.71 | NA NA | NA NA | NA NA | NA NA | NA NA | < 0.47 < 0.71 | < 0.47 < 0.71 | NA NA | 260 19.3 | NA NA | NA NA | NA NA |
| n-Propylbenzene | - | | < 0.71 | NA | < 0.71 | NA | < 0.71 | < 0.71 | NA | NA NA | NA NA | NA | NA NA | < 0.71 | < 0.71 | NA NA | 29.7 | NA | NA | NA |
| o-Xylene | - | | < 0.26 | NA | < 0.26 | NA | < 0.26 | < 0.26 | NA | NA | NA | NA | NA | < 0.26 | < 0.26 | NA | 3.1 | NA | NA | NA |
| p-Isopropyltoluene | | | < 0.80 | NA | < 0.80 | NA | 34.5 | 31.2 | NA | NA | NA | NA | NA | < 0.80 | < 0.80 | NA | 3.5 ^J | NA | NA | NA |
| sec-Butylbenzene | | | < 0.85 | NA | < 0.85 | NA | < 0.85 | < 0.85 | NA | NA | NA | NA | NA | < 0.85 | < 0.85 | NA | 7.7 ^J | NA | NA | NA |
| Tetrachloroethene | 5 | 0.5 | < 0.33 | NA | < 0.33 | NA | < 0.33 | < 0.33 | NA | NA | NA | NA | NA | 1.0 J | <u>1.1</u> | NA | 1.2 J | NA | NA | NA |
| Toluene | 800 | 160 | < 0.27 | NA | < 0.27 | NA | 0.52 ^J | 0.48 ^J | NA | NA | NA | NA | NA | < 0.27 | < 0.27 | NA | 1.9 ^J | NA | NA | NA |
| Trichloroethene | 5 | 0.5 | < 0.26 | NA | < 0.26 | NA | < 0.26 | < 0.26 | NA | NA | NA | NA | NA | 0.33 ^J | 0.45 ^J | NA | < 0.64 | NA | NA | NA |
| Xylene (Total) | 2000 | 400 | < 1.5 | NA | < 1.5 | NA | < 1.5 | < 1.5 | NA | NA | NA | NA | NA | < 1.5 | < 1.5 | NA | 263 | NA | NA | NA |
| PAHs (µg/L) | | | | | | | | | | | | | | | | | | | | |
| 1-Methyl naphthalene | | | 0.09 | 0.011 ^J | 0.025 ^J | NA | < 0.0057 | < 0.0063 | 0.7 | NA | 0.0066 ^J | < 0.0057 UJ | < 0.0062 | < 0.0055 | < 0.0055 | 5.1 | 146 | < 0.0068 | < 0.0065 | 0.017 ^J |
| 2-Methylnaphthalene | | | 0.0092 J | 0.011 ^J | 0.010 ^J | NA | < 0.0047 | < 0.0053 | 0.9 | NA | < 0.0046 | < 0.0048 ^{UJ} | < 0.0052 | < 0.0045 | < 0.0045 | 6.5 | 182 | < 0.0056 | < 0.0054 | 0.0077 ^J |
| Acenaphthene | | | 0.074 | 0.0089 ^J | 0.016 ^J | NA | < 0.0058 | < 0.0065 | 9.2 | NA | 0.17 | 0.012 ^{J-} | < 0.0064 | < 0.0056 | < 0.0056 | 0.8 | 3.8 | < 0.0070 | < 0.0067 | < 0.0057 |
| Acenaphthylene | | | 0.011 ^J | 0.056 | 0.0060 ^J | NA | 0.0071 ^J | 0.0075 ^J | 0.012 ^J | NA | < 0.0047 | 0.0078 ^{J-} | < 0.0052 | < 0.0046 | < 0.0046 | 4.8 | 2.6 | < 0.0057 | < 0.0055 | < 0.0047 |
| Anthracene | 3000 | 600 | < 0.010 | 0.075 | < 0.010 | NA | 0.059 | 0.049 ^J | 0.033 ^J | NA | < 0.0099 | < 0.010 UJ | < 0.011 | < 0.0097 | < 0.0097 | 1.2 | 0.85 ^J | < 0.012 | < 0.011 | < 0.0098 |
| Benzo(a)anthracene | | | < 0.0074 | 0.31 | 0.0080 ^J | NA | 0.0093 ^J | < 0.0081 | 0.0084 ^J | NA | < 0.0071 | 0.0091 ^{J-} | < 0.0079 | < 0.0070 | < 0.0070 | 0.33 | < 0.18 | < 0.0087 | < 0.0083 | < 0.0071 |
| Benzo(a)pyrene | 0.2 | 0.02 | < 0.010 | 0.3 | < 0.010 | NA | < 0.010 | < 0.011 | < 0.011 | NA | < 0.0099 | < 0.010 UJ | < 0.011 | < 0.0098 | < 0.0098 | 0.42 | < 0.26 | < 0.012 | < 0.012 | < 0.0098 |
| Benzo(b)fluoranthene | 0.2 | 0.02 | < 0.0056 | 0.38 | < 0.0056 | NA | 0.011 ^J | < 0.0062 | < 0.0057 | NA | < 0.0054 | 0.0089 ^{J-} | < 0.0060 | < 0.0053 | < 0.0053 | 0.40 ^{J+} | < 0.14 | < 0.0066 | < 0.0063 | < 0.0054 |
| Benzo(g,h,i)perylene | | | < 0.0066 | 0.14 | < 0.0066 | NA | 0.0088 ^J | < 0.0073 | < 0.0068 | NA | < 0.0064 | < 0.0066 UJ | 0.014 ^J | < 0.0063 | < 0.0063 | 0.42 | < 0.16 | 0.0079 ^J | < 0.0075 | < 0.0063 |
| Benzo(k)fluoranthene | | | < 0.0074 | 0.19 | < 0.0073 | NA | < 0.0073 | < 0.0081 | < 0.0076 | NA | < 0.0071 | < 0.0073 UJ | < 0.0079 | < 0.0070 | < 0.0070 | 0.19 | < 0.18 | < 0.0087 | < 0.0083 | < 0.0071 |
| Chrysene | 0.2 | 0.02 | < 0.013 | 0.37 | < 0.013 | NA | < 0.013 | < 0.014 | < 0.013 | NA | < 0.012 | < 0.013 UJ | < 0.014 | < 0.012 | < 0.012 | 0.35 | < 0.32 | < 0.015 | < 0.014 | < 0.012 |
| Dibenzo(a,h)anthracene | | | < 0.0098 | 0.037 ^J | < 0.0097 | NA | < 0.0096 | < 0.011 | < 0.010 | NA | < 0.0095 | < 0.0097 ^{UJ} | < 0.011 | < 0.0093 | < 0.0093 | 0.054 ^J | < 0.24 | < 0.012 | < 0.011 | < 0.0094 |
| Fluoranthene | 400 | 80 | < 0.010 | 0.77 | < 0.010 | NA | < 0.010 | < 0.011 | 0.058 | NA | < 0.010 | 0.040 ^{J-} | < 0.011 | < 0.0099 | < 0.0099 | 1.2 | < 0.26 | < 0.012 | < 0.012 | < 0.010 |
| Fluorene | 400 | 80 | 0.043 | 0.049 | 0.0083 ^J | NA | < 0.0077 | < 0.0086 | 0.53 | NA | 0.024 ^J | 0.019 ^{J-} | < 0.0084 | < 0.0074 | < 0.0074 | 2.9 | 7.2 | < 0.0092 | < 0.0088 | < 0.0074 |
| Indeno(1,2,3-cd)pyrene | | | < 0.017 | 0.14 | < 0.017 | NA | < 0.017 | < 0.019 | < 0.018 | NA | < 0.017 | < 0.017 ^{UJ} | < 0.019 | < 0.016 | < 0.016 | 0.25 ^{J+} | < 0.43 | < 0.020 | < 0.019 | < 0.016 |
| Naphthalene | 100 | 10 | 0.14 | < 0.018 | 0.087 ^J | NA | < 0.018 | < 0.020 | 0.17 | NA | < 0.017 | < 0.018 ^{UJ} | < 0.019 | < 0.017 | < 0.017 | <u>33.6</u> | 6 | < 0.021 | 0.020 ^J | < 0.017 |
| Phenanthrene | | | < 0.014 | 0.5 | < 0.013 | NA | < 0.013 | < 0.015 | 0.42 | NA | < 0.013 | < 0.013 ^{UJ} | < 0.015 | < 0.013 | < 0.013 | 4.8 | 9.8 | < 0.016 | < 0.015 | < 0.013 |
| Pyrene | 250 | 50 | < 0.0075 | 0.61 | 0.0075 ^J | NA | 0.0076 ^J | < 0.0082 | 0.035 ^J | NA | < 0.0072 | 0.027 ^{J-} | < 0.0081 | < 0.0071 | < 0.0071 | 1 | 0.40 ^J | < 0.0088 | < 0.0084 | < 0.0071 |
| Detected Metals (µg/L) | | | | | | 0.50 | | | | | | | | | | | | | | <u> </u> |
| Arsenic | 10 | 1 | 0.88 ^J | 0.64 ^J | 0.32 ^J | < 0.56 | <u>1.4</u> ^J | <u>1.6</u> | < 1.4 | 0.80 ^J | <u>7.5</u> | NA | NA | < 0.28 | < 0.28 | <u>1.4</u> | <u>3.8</u> | <u>4.3</u> | 0.44 ^J | 0.92 ^J |
| Barium | 2000 | 400 | 102 | 99.2 | NA | NA | 220 | 208 | <u>729</u> | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Selenium | 50 | 10 | 1.5 | 1.6 | NA | NA | < 0.63 | < 0.32 | < 1.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

NA - Not analyzed.

NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, January 2020, Exceedances are **Bold**.

NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, January 2020, Exceedances are <u>Underlined Italics</u>.

4/29/2020 1 of 1

μg/L = micrograms per liter -- = ES or PAL not established

^J - Estimated concentration between the method detection limit and the reporting limit (+/- indicate the direction of bias).

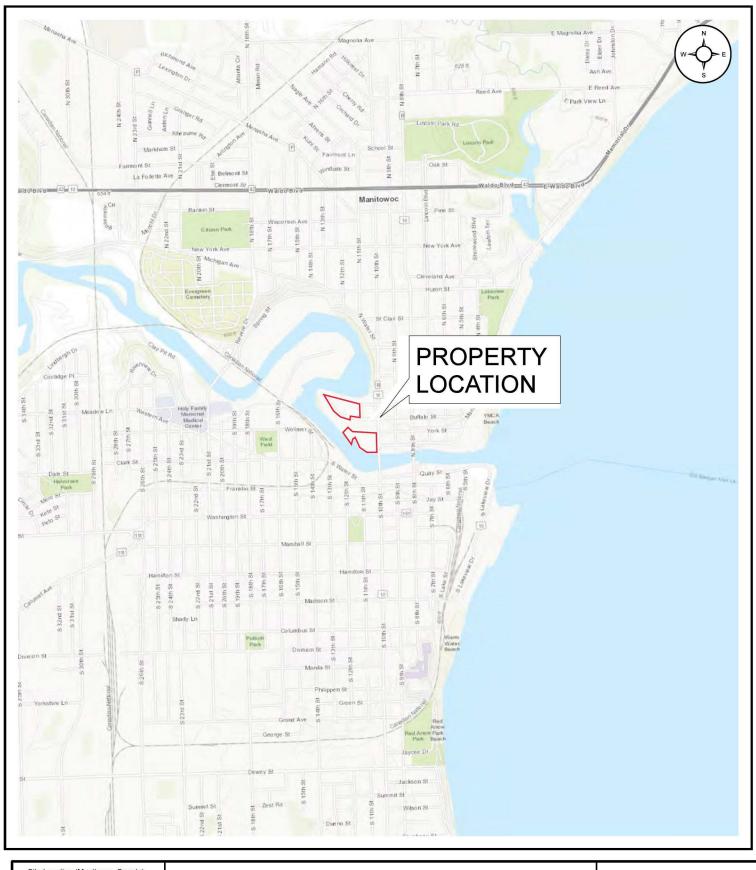
UJ = Estimated limit of detection (LOD).

Project number: 60615404

FIGURES

Figure 1 Site Location Map

Figure 2 Site Layout and Sample Locations Figure 3 Groundwater Analytical Results





SITE LOCATION MAP Former CN Property Limited SI Report 200 North 10th Street & 1110 Buffalo Street Manitowoc, WI

1

Miles

0.75

AECOM Project: 60615404

0.5

0.25

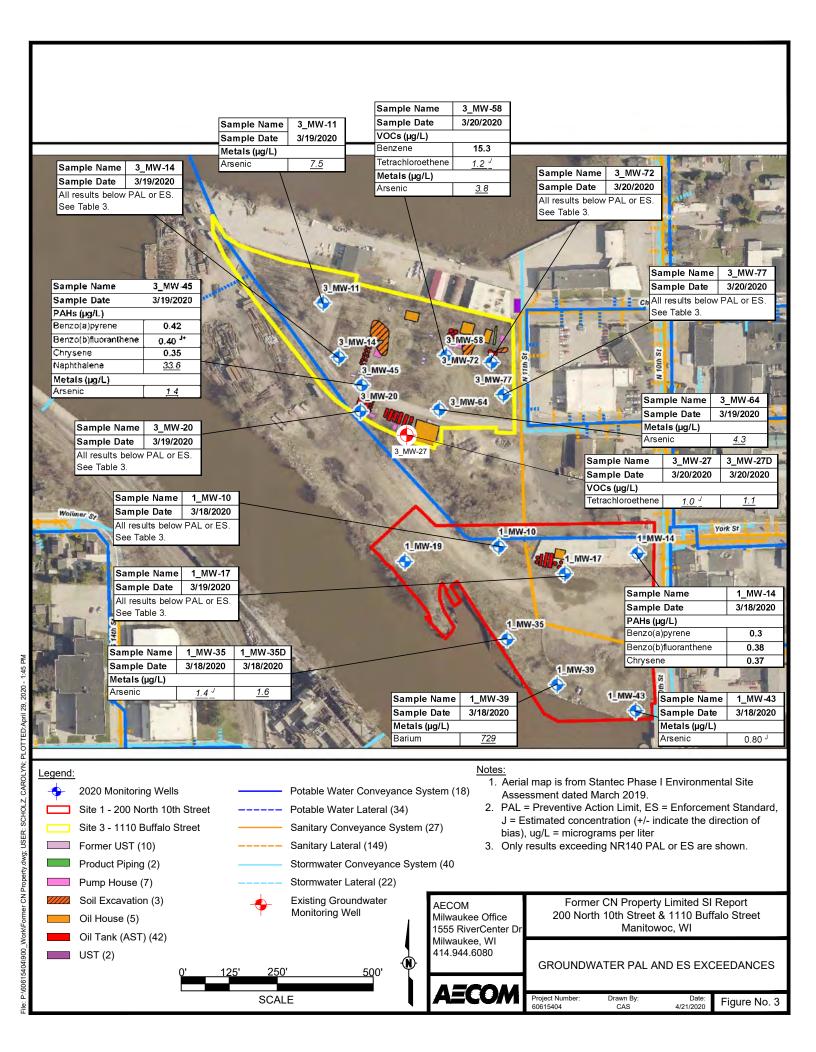
Date: April 2020

Source: NGS USA Topographic Maps Copyright: © 2009 National Geographic Society

AECOM

1555 N RiverCenter Dr Milwaukee, WI 53212 414-944-6080

FIGURE 1



Appendix A Soil Boring Logs

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | <u>R</u> | oute To: | | d/Wastewater ion/Redevelop | □ ment ⊠ | | _ | ement | | | | | | | | |
|---------------|--|---------|-----------------|------------|-------------------------------|--|-------------|------------------------------|---------|-------------------|---------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| | | | | | remedia | ion reacter. | ment Z | <u>s</u> outer | | | | | | | Pag | ge 1 | of | 1 |
| | ty/Proje | | | | | | | License | | /Monito | ring N | umber | | Boring | Numbe | er | | 1 |
| | | | | | th Street hief (first, las | et) and Firm | | 6061 Date Drilling | 5404 | 1 Data 1 | D.::11: | ~ Comm | latad | Drillin | | $\frac{W-10}{2}$ | | |
| | ıy Kap | - | 1 vallic v | of ciew ci | inei (msi, ia. | st) and I mm | | | Startet | Date |)Tillin | g Comp | neted | Drillin | g Mem | oa | | |
| On | site Er | iviroi | | | Wall ID No | Common We | 11 NJ | 3/3/2020 Final St | otio Wo | 1 | 2020 | | e Eleva | hollow | stem | augei | r | Diameter |
| WIU | nique w | eli No |). | DNK | well ID No. | | W-10 | rinai St | Feet 1 | | 21 | Surrac | | uon et MS] | L | Во | | 4.50 |
| | Grid On Plane | rigin | (e | stimated: | : 🗌) or N | Boring Location, E S / | on 🛛 | Lat | 0 | , | | " | Local (| Grid Lo | cation | | | |
| State | 1/4 | of | | 1/4 of Se | | <i>'</i> | N, R | Long | _ 。 | | | | | Feet | ∐ N □ S | | | ☐ E Feet ☐ W |
| Facilit | | | | | County | | , | County C | ode | Civil T | | - | Village | | | | | |
| Sor | nple | | 1 | | | | | | | Mani | towo | c | | Soil | Prope | rtios | | |
| _ Sai | Τ^ | | | | Sc | oil/Rock Descri | intion | | | | | | | 3011 | Порс | rues | | |
| ပ | Att. & | ounts | ı Fee | | | d Geologic Orig | - | | | | _ | | Compressive Strength | | | S | | nts |
| mber I Typ | Blow Counts Blow Counts Blow Counts Blow Counts Each M Each M | | | | | | nit | | SCS | Graphic Log | Well | PID/FID | Compress Strength | Moisture Content | Liquid Limit | Plasticity Index | 200 | RQD/ Comments |
| Nn anc | R E | BIG | De | Соото | a and and an | ivel fill, 2/2, dry | 10000 # | a a mly amada d | n S | Crap XX Log | Well | II.d | Str | <u>×</u> 3 | Li | Pla Ind | P 2 | 11:35 - 12:30 |
| | | | F . | Coarse | sand and gra | ivei iiii, 2/2, di y | y, 100sc, p | oonly graded | E31 | | | | | | | | | 11.33 - 12.30 |
| | | | E, | | | | | | Fill | | | | | | | | | |
| | | | <u>-</u> 2 | Fine to | o medium san | d, 4/4, moist, lo | oose, poor | rly graded | | | 1 | | | | | | | |
| | | | _3 | | | | | | | | | | | | | | | |
| | | | Ē. | | | | | | | | | | | | | | | |
| | | | -4 | Fine to | o medium san | d, 4/4, wet, loos ht staining, gray | se, poorly | graded, silty | | | | | | | | | | |
| | | | _5 | plastic | eity, moderate | petroleum odor | r, 5Y 4/1 | , | | | | | | | | | | |
| | | | E -6 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | - 7 | | | | | | | | | | | | | | | |
| | | | <u>-8</u> | | | | | | | | | | | | | | | |
| | | | _9 | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | | | | | |
| | | | E ₁₁ | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | | | | | |
| | | | | End of | f boring at 13 | 5 feet bgs, blind Well completed | d drilled; | descriptions 41 compliant | | | | | | | | | | |
| | | | | | oring well. | p | 1 | F | | | | | | | | | | |
| I here | hy certit | fy that | the inf | ormation | on this form | is true and cor | rect to th | ne hest of my l | nowled | ge | | | | | | | | |
| Signa | - | _ | | | | 15 true and con | Tro: | AECOM | nowieu | .gc. | | | | | | | | Tel: |
| | | 4 | aco | 6 De | ean | | | | | | | | | | | | | Fax: |

SOIL BORING LOG INFORMATION

Fax:

Form 4400-122 Rev. 7-98

| | | | <u>Rc</u> | oute To: | Watershed/Was | stewater edevelopment | ₹ | Waste Other | _ | ement | | | | | | | | |
|--------------------|---------------------------------|-------------|----------------|-----------|--|--|-------|----------------|---------|----------------|-----------------|-----------|-------------------------|---------------------|-----------------|---------------------|--------|------------------|
| | | | | | | | _ | 0 11111 | | | | | | | Dog | ge 1 | of | 1 |
| Facilit | y/Projec | ct Nam | ne | | | | | License/ | Permit/ | Monito | ring N | umber | Т | Boring | | | 01 | 1 |
| CN | Mani | towo | e, 200 | | h Street | | | 6061 | 5404 | | | | | | | W-14 | | |
| | _ | - | Name o | f crew ch | nief (first, last) and | Firm | Da | te Drilling | Started | Date I | Orilling | g Comp | leted | Drillin | g Meth | od | | |
| Tor | ny Kap site Er | ougi | ment | a1 | | | 3 | /4/2020 | | 3/4/ | 2020 | ı | 1 | 11 | . ata | | _ | |
| | nique W | | | | Well ID No. Com | mon Well Name | 1 | Final Sta | tic Wat | | | Surface | | nollow tion | stem | Bo | rehole | Diameter |
| | | | | | | 1_MW-14 | | | Feet N | MSL | | | | et MS | | | 4 | 4.50 |
| | Grid Or | rigin | (es | stimated: | | g Location 🛛 | | Lat | 0 | , | | " | Local (| Grid Lo | cation | | | |
| State | Plane 1/4 | o.f | 1 | /4 of Sec | N, E | | , | Long | _ 。 | | | _, | | East | □ N □ S | | | ☐ E Feet ☐ W |
| Facilit | | 01 | | | County | N, R | 11 | County Co | ode | Civil T | own/C | ity/ or \ | Village | геец | <u> </u> | | | reet 🗀 w |
| | | | | | j | | | | | Mani | | | Č | | | | | |
| Sar | nple | | | | | | | | | | | | | Soil | Prope | rties | | |
| | (ii) & | ķ | ्र इ | | Soil/Roo | ck Description | | | | | | | ပ | | | | | |
| , <u>e</u> | Att. | ount | n Fe | | And Geol | ogic Origin For | | | | | _ | | SSiv | بو | | 5. | | nts |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | Each | Major Unit | | | CS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | 200 | RQD/ Comments |
| Nun | Ler | Blo | Dep | | | | | | S U | Grap Log | Well Diagr | PIE | Cor | Co Co Co | Liquid Limit | Plastic Index | P 2 | |
| | | | E | Concre | ete | | | | Concre | A 4 A | | | | | | | | 9:30 - 10:30 |
| | | | -1 | Mediu | m-coarse sand and | gravel, 3/3, dry, lo | ose | poorly | | | 1 | | | | | | | |
| | | | | graded | | | | | | | | | | | | | | |
| | | | _2 | | | | | | SP | | | | | | | | | |
| | | | _3 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | -4 | Fine-m | nedium-coarse sand | , 4/4, wet loose, po | oorly | graded | | 255255 | 1 | | | | | | | |
| | | | _ 5 | | | | | | | | | | | | | | | |
| | | | E 7 | | | | | | | | | | | | | | | |
| | | | -6 | | | | | | | | | | | | | | | |
| | | | <u> </u> | | | | | | | | | | | | | | | |
| | | | - 7 | | | | | | | | | | | | | | | |
| | | | <u>-</u> 8 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | - 9 | | | | | | | | | | | | | | | |
| | | | F 10 | | | | | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | | | | | |
| | | | 11 | | | | | | | | | | | | | | | |
| | | | _ | | | | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | | | | |
| | | | F 13 | De 4 . C | Chamina at 12 F.f | haa blind daill 1 | . d | iti.c | | | - | | | | | | | |
| | | | | from se | boring at 13.5 feet oil cuttings. Well c | ogs, offind driffed; ompleted as NR-1 | 41 c | compliant | | | | | | | | | | |
| | | | | monito | oring well. | | | | | | | | | | | | | |
| I herel | N certif | fy that | the info | rmation | on this form is true | and correct to the | ne be | est of my la | nowled | ne . | | 1 | | | | | | <u> </u> |
| Signat | | _ | | | | Tr' | | | nowied | ge. | | | | | | | | |
| | | | aco | b De | an | 1 | ΑĖ | COM | | | | | | | | | | Tel: |

SOIL BORING LOG INFORMATION

Fax:

Form 4400-122 Rev. 7-98

| | | | Ro | ute To: | | d/Wastewater □ ion/Redevelopment ⊠ | | Manag | ement | | | | | | | | |
|--------------------|---------------------------------|----------------|----------------|-----------|--|--|------------------------------|-----------------|----------------|-----------------|----------|-------------------------|---------------------|-----------------|---------------------|----------|------------------|
| | | | | | remediai | ion/redevelopment 2 | y Other | | | | | | | Doo | ge 1 | of | 1 |
| | y/Projec Mani | | | N. 10tl | h Street | | License 6061 | Permit/ 5404 | Monito | ring N | umber | | Boring | Numbe | er W-17 | | 1 |
| Boring | g Drilleo | d By: | | | nief (first, las | t) and Firm | Date Drilling | Started | Date I | Drilling | g Comp | leted | Drillin | g Meth | od | | |
| Ton Ons | y Kap site Er | ougi iviror | menta | վ | | | 3/3/2020 | | 3/3/ | 2020 | | | hollow | , stem | 9110e1 | r | |
| | ique W | | | | Well ID No. | Common Well Name | Final St | | ter Leve | | | e Eleva | tion | | Bo | rehole | Diameter |
| ocal | Grid Oı | rigin | ☐ (es | stimated: |) or | 1_MW-17 Boring Location ⊠ | | Feet 1 | MSL | | | | et MSI Grid Loc | | | | 4.50 |
| State | | 15 | | minated. | N N | | Lat | _ | ' | | _" | Locar | oria Lov | □ N | ſ | | □Е |
| D 1114 | 1/4 | of | 1 | /4 of Sec | | T N, R | Long | - 1- | Civil T | | " :/` | C7:11 | | \Box s | | | Feet W |
| Facilit | yШ | | | ľ | County | | County C | ode | Mani | | - | village | | | | | |
| San | nple | | | | | | | | | | | | Soil | Prope | erties | | |
| | % (ii) | S | et | | So | il/Rock Description | | | | | | و | | | | | |
| r pe | Att. | Jonno | In Fe | | | l Geologic Origin For | | S | ွ | _ | | essiv h | er e | | ity | | ents |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Each Major Unit | | SC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| Z E | 12 % | B | D | Mediu | m sand and fi | ill, 3/2, moist, loose, poor | rly graded | D | ××× | ≱ <u>∩</u> | <u> </u> | \(\frac{1}{2}\) | Σŭ | 22 | Pl | <u> </u> | 12:50 - 13:45 |
| | | | _ _1 | | | , | , 0 | Fill | | | | | | | | | |
| | | | - 1 | | | | | ''' | | | | | | | | | |
| | | | _2 | Silty sa | and, 4/4, wet, | loose, poorly graded | | | | | | | | | | | |
| | | | _3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | | | | |
| | | | _ 5 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | - 6 | | | | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | | | | |
| | | | E . | | | | | SM | | | | | | | | | |
| | | | -8 | | | | | | | | | | | | | | |
| | | | <u>-</u> 9 | | | | | | | | | | | | | | |
| | | | E 10 | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | | | | |
| | | | - 12 | | | | | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | | | | |
| | | | _13 | | | | | | | : | | | | | | | |
| | | | | from so | boring at 13. oil cuttings. Varing well. | 5 feet bgs, blind drilled; Well completed as NR-1 | descriptions 41 compliant | | 1.4.1.1. | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | fy that | the info | rmation o | on this form | is true and correct to th | e best of my k | nowled | ge. | | | | | | | | |
| Signat | ure | \bigcirc | acol | 5 De | an | Firm | AECOM | | | | | | | | | | Tel: |

SOIL BORING LOG INFORMATION

Fax:

Form 4400-122 Rev. 7-98

| | | | <u>Re</u> | oute To: | Watershed/Wa | astewater \square | | _ | ement | | | | | | | | |
|--------------------|---------------------------------|-------------|---------------|-----------|--|---|------------------------------|-------------------|-----------------|----------|---------|-------------|---------------------|------------------|---------------------|-------|------------------|
| | | | | | Remediation/I | Redevelopment [2 | Other | | | | | | | | | | |
| | | | | | | | | | | | | | | Paş | | of | 1 |
| | y/Projec | | | NI 10/1 | C . | | License | | Monito | ring N | lumber | | | Numb | | | |
| | | | | | n Street nief (first, last) ar | nd Firm | 6061 Date Drilling | | Date I | Orillin | a Comr | leted | | I_IVI ng Meth | W-19 | ' | |
| Tor | iy Kar | ougi | | | (,) | | | , Startet | Date | J1111111 | g Comp | neted | Dillill | ig ivicui | ou | | |
| Ons | site Er | viroi | | | | | 3/3/2020 | | | 2020 | | | hollov | v stem | auge | r | |
| WI Uı | nique W | ell No |). | DNR V | Well ID No. Cor | nmon Well Name 1 MW-19 | Final St | atic Wa Feet] | | el | Surfac | | ation et MS | T | Bo | | Diameter 4.50 |
| Local | Grid Oı | igin | (e | stimated: | ☐) or Bori | ng Location | 1 | ° | VISL | | | | Grid Lo | | | | 1.30 |
| State | Plane | | | | , | E S/C/N | Lat | _ °- | | | | | | \square N | | | □Е |
| E312 | 1/4 | of |] | /4 of Sec | | T N, R | Long | | ' | | " | C7:11 | | t 🗌 S | | | Feet W |
| Facilit | yш | | | | County | | County Co | ode | Civil T Mani | | • | Village | | | | | |
| Sar | nple | | | | | | | | Ivitarii | 10110 | | | Soil | Prope | erties | | |
| | T . | 76 | | | Soil/Re | ock Description | | | | | | | | Ī | | | |
| . • | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | And Geo | ologic Origin For | | | | | | Compressive | | | > | | nts |
| Number and Type | gth, | w C | th I | | Eacl | h Major Unit | | CS | Graphic Log | Well | PID/FID | Compress | Moisture Content | uid iit | Plasticity Index | 00 | RQD/ Comments |
| Nun | Len | Blo | Dep | | | | | n s | Grap Log | Well | | Cor | S N | Liquid Limit | Plastic Index | P 200 | |
| | | | Ė | Sand a | nd gravel fill, 4/4, | dry, loose, poorly g | graded | | | | | | | | | | 10:35 - 11:20 |
| | | | -1 | | | | | Fill | | | | | | | | | |
| | | | E 2 | | | | | | | | | | | | | | |
| | | | <u>-2</u> | Fine to | medium sand, 4/4 | 4, dry, loose, poorly | graded | SP | | | | | | | | | |
| | | | 3 | Rinran | , rock fill | | | | XXX | | | | | | | | |
| | | | Ė. | Партар | , rock iii | | | | | | | | | | | | |
| | | | 4 | | | | | Fill | | | | | | | | | |
| | | | <u>-</u> 5 | Ciltro | ay, 3/1, wet, soft, | high plantinity | | | | | | | | | | | |
| | | | E | Silty Ci | ay, 5/1, wei, soii, | nigh plasticity | | | | | | | | | | | |
| | | | -6 | | | | | CI | | | | | | | | | |
| | | | <u> </u> | | | | | CL | | | | | | | | | |
| | | | Ė | | | | | | | | | | | | | | |
| | | | <u>-8</u> | | | and gravel fill, 2/1, v | wet, loose, | | | | | | | | | | |
| | | | 9 | poorly | | | | Fill | | | | | | | | | |
| | | | E | Silty cl | ay, 3/1, wet, soft, | high plasticity | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | |
| | | | Ē ,, | | | | | | | | | | | | | | |
| | | | <u>– 11</u> | | | | | CL | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | |
| | | | Ė | | | | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | | | | |
| | | | | from so | boring at 13.5 fee oil cuttings. Well ring well. | et bgs, blind drilled; completed as NR-1 | descriptions 41 compliant | | | | | | | | | | |
| I bound | XI 00mt:1 | Sythot | the inf | rmation: | on this form is to | ue and correct to the | a bact of my 1 | nowla-1 | ge. | | | | | | | | |
| Signat | - | y mat | me IIII | | лі uns 101111 IS U(| le. | AECOM | nowied | gc. | | | | | | | | Tel: |
| _ | | (| | 1 2. | | | ALCOM: | | | | | | | | | | 161: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | Ro | oute To: | Watersh | ed/Wastewater | | Wast | e Manag | gement | | | | | | | | |
|--------------------|---------------------------------|---------------|----------------|-----------------|-------------------------------|---------------------|-------------|--------------|-----------|-----------------------------|-----------------|----------------|-------------------------|---------------------|-----------------|---------------------|----------|------------------|
| | | | | | Remedia | ation/Redevelop | ment 🗵 | Othe | · 🗆 | | | | | | | | | |
| | | | | | | | | | | | | | | | Pag | re 1 | of | 1 |
| Facilit | y/Projec | et Nam | ne | | | | | Licens | e/Permit | /Monito | ring N | ımber | | Boring | | | | 1 |
| | | | | N. 10t | th Street | | | | 15404 | | | | | | l My | | , | |
| Boring | g Drilled | 1 By: 1 | Name o | of crew cl | hief (first, la | ast) and Firm | | Date Drillin | g Starte | d Date | Drilling | Comp | leted | Drillin | g Meth | od | | |
| Tor | ıy Kap | ugi | | | | | | | | | | | | | | | | |
| | site En | | | | **** | | | 3/4/2020 | | | /2020 | | | <u> 10llow</u> | stem | | | |
| WI Ur | nique W | ell No | | DNR | Well ID No | . Common We | | Final S | | ater Leve | el | Surfac | e Eleva | | r | Вс | | Diameter |
| Local | Grid Or | igin | ☐ (e | stimated: | · 🗆) or | Boring Location | IW-35 | | reet | MSL | | | Local C | et MS | | | - ' | 4.50 |
| State | | igiii | ☐ (¢ | stimated. | | | /C/N | Lat | <u> </u> | ' | | _" | Local | JIIG LO | | | | □Е |
| | 1/4 | of | | 1/4 of Se | | | N, R | Long | 0 | , | | " | | Feet | | | | Feet W |
| Facilit | | | | | County | | .,, | County | Code | Civil T | own/C | ity/ or ` | Village | | | | | |
| | | | | | | | | | | Mani | towo | c | | | | | | |
| San | nple | | | | | | | | | | | | | Soil | Prope | erties | | |
| | & in) | 70 | | | S | Soil/Rock Descr | ription | | | | | | | | | | | |
| 0 | od (i | unts | Fee | | | nd Geologic Ori | - | | | | | | Sive | | | _ | | Its |
| ber 「ype | th A | ် | h In | | | Each Major U | | | CS | hic | ram | <u> </u> | pres | ture | ت <u>ت</u> ا | icity | | mer |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Ţ | | | N S (| Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| <u> </u> | пи | | - | Mediu | ım sand and | gravel fill, 3/3, d | dry, loose, | poorly | + - | $\stackrel{\circ}{\otimes}$ | 1 1 | " | 0 01 | 7 0 | 1 1 | H | <u> </u> | 8:00 - 8:20 |
| | | | F. | graded | | | | | F::11 | | } | | | | | | | |
| | | | F 1 | | | | | | Fill | | } | | | | | | | |
| | | | <u>_</u> 2 | | | | | | | | { | | | | | | | |
| | | | E | Mediu gradeo | | gravel fill, 3/2, v | wet, loose, | , poorly | | | 1 | | | | | | | |
| | | | _3 | grade | - | | | | Fill | | } | | | | | | | |
| | | | F | | | | | | | | } | | | | | | | |
| | | | - 4 | Silty c | lay, 3/1, wet | , soft, high plast | icity | | | | | | | | | | | |
| | | | Ē, | | • • • | , , , , | | | | | | | | | | | | |
| | | | _5 | | | | | | | | | | | | | | | |
| | | | <u>-</u> 6 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | _7 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | -8 | | | | | | | | | | | | | | | |
| | | | Ē _ | | | | | | CL | | | | | | | | | |
| | | | - 9 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | | |
| | | | F -11 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | | | | | |
| | | | | End of | f boring at 1. | 3.5 feet bgs, blin | d drilled; | descriptions | | 7//// | 1 | | | | | | | |
| | | | | from s | soil cuttings. oring well. | Well completed | i as NR-1 | 41 compliant | | | | | | | | | | |
| | | | | | 2 | | | | | | | | | | | | | |
| I herel | w certif | v that | the info | rmation | on this form | n is true and cor | rrect to th | e hest of my | knowlea | lae | ı | 1 | 1 | 1 | | I | I | |
| Signat | - | $\overline{}$ | | | | i is true and cor | 1 | | INTO WICK | .50. | | | | | | | | m 1 |
| | | \mathcal{L} | aco | 6 De | ean | | 1 | AECOM | | | | | | | | | | Tel: Fax: |

Jacob Dean

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Fax:

| | - | | | | | | - | - | | | | | | ge 1 | of | 1 |
|--------------------|---------------------------------|-------------|----------------|---|--|------------------------------|-------------------|----------------|-----------------|---------|---------------|---------------------|-----------------|---------------------|-------|------------------|
| CN | | towo | c, 200 | N. 10th Street | | License/1 60615 | | Monito | ring Ni | ımber | | Boring] | Numbe | |) | |
| _ | | - | Name of | f crew chief (first, las | st) and Firm | Date Drilling | Started | Date I | Orilling | g Com | pleted | Drillin | g Metho | od | | |
| Ons | | ıviror | nmenta | | | 3/4/2020 | | | 2020 | | | hollow | stem | | | |
| VI Ur | ique W | ell No | | DNR Well ID No. | Common Well Name 1 MW-39 | Final Sta | tic Wat Feet N | | :1 | Surfa | ce Elev Fe | ation eet MS | ۲. | Во | | Diameter 4.50 |
| | Grid Oı | rigin | (es | | Boring Location 🛛 | Lat | 0 | , | | ,, | | Grid Lo | | | | |
| State : | Plane 1/4 | of | 1 | /4 of Section , | T, E S/C/N T N, R | Long | • | | | | | Feet | □ N □ S | | | ☐ E Feet ☐ W |
| acilit | | | | County | | County Co | de | Civil To | | - | Village | | | | | |
| San | nple | | | | | | | Mani | lowo | | | Soil | Prope | erties | | |
| | _ | 33 | ţ | Sc | oil/Rock Description | | | | | | e | | | | | |
| er | h Att. ered | Coun | In Fe | | d Geologic Origin For | | N N | .c | am | | ressiv | nt e | | ity | | nents |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | Each Major Unit | | USC | Graphic Log | Well Diagram | PID/FID | Compressive | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| | | | = | Coarse sand and gra | avel fill, 3/2, dry, loose, p | oorly graded | | | | | | | | | | 8:40 to 9:10 |
| | | | -1 | | | | | | | | | | | | | |
| | | | _2 | | | | Fill | | | | | | | | | |
| | | | _3 | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | |
| | | | <u>-4</u> | Silty clay, 3/2, wet, | soft, medium plasticity | | | | | | | | | | | |
| | | | _5 | | | | CL | | | | | | | | | |
| | | | -6 | Coarse sand and ora | avel fill, 2/2, wet, loose, p | noorly graded | | | | | | | | | | |
| | | | <u>-</u> 7 | Course suite une gre | .ver m, 2/2, wet, roose, p | goorly graded | Fill | | | | | | | | | |
| | | | E | | | | 1111 | | | | | | | | | |
| | | | - 8 | Silty clay, 3/1, wet, Some organic mater | soft, high plasticity | | | | | | | | | | | |
| | | | <u>-</u> 9 | 8 | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | |
| | | | - -11 | | | | CL | | | | | | | | | |
| | | | E | | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | | |
| | | | | End of boring at 13. from soil cuttings. monitoring well. | 5 feet bgs, blind drilled; Well completed as NR-1 | descriptions 41 compliant | | | | | | | | | | |
| | | | | | | 1 2 | <u> </u> | | | | | | | | | |
| hereb Signat | | _ | | | is true and correct to th | e best of my kr AECOM | nowledg | ge. | | | | | | | | Tel: |
| _ | | () | acal | Dean | | ALCOM | | | | | | | | | | Tel: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | <u>Rc</u> | ute To: | | ed/Wastewater tion/Redevelop | □ ment ⊠ | Waste 1 | _ | ement | | | | | | | | |
|--------------------|---------------------------------|-------------|---|----------------|----------------|------------------------------------|---------------------|-----------------------|-------------------|----------------|-----------------|----------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| | | | | | remedia | iron/redevelopi | ment Z | y Other | | | | | | | Pag | ₁₀ 1 | of | 1 |
| | y/Proje | | | | | | | License/ | | Monito | ring N | umber | | Boring | Numbe | er | | 1 |
| | | | | | h Street | st) and Firm | | 6061: | | 1 5 . 1 | > :11: | <u> </u> | 1 . 1 | | | $\frac{W-43}{1}$ | | |
| | y Kap | - | ivanic o | i cicw ci | nei (msi, ia | st) and I mm | | Date Drilling | Started | Date 1 | Jrilling | g Comp | netea | Drillin | g Meth | oa | | |
| On | site Er | iviror | | | W-11 ID N. | G W 1 | 137 | 3/3/2020 Final Sta | 4: - XX 7- | | 2020 | | e Eleva | hollow | stem | | | Diameter |
| WIU | nique w | eli No | • | DNK | Well ID No. | | W-43 | | ne wa Feet l | | 21 | Surrac | | ation et MS | L | Во | | 4.50 |
| | Grid Oı | rigin | (e: | stimated: | □) or N | Boring Location | | Lat | 0 | , | | ., | Local | Grid Lo | | | | |
| State | Plane 1/4 | of | 1 | /4 of Sec | | <i>*</i> | C/N I, R | Long | _ | | | " | | Feet | N □ S □ : | | | ☐ E Feet ☐ W |
| Facilit | | | | | County | | ., | County Co | de | Civil T | | | Village | | | | | |
| Sar | nple | | | | | | | | | Mani | towo | c | | Soil | Prope | ortios | | |
| _ Sai | | | | | Se | oil/Rock Descri | ntion | | | | | | | 3011 | Тюрс | lics | | - |
| . 0 | Att. & | ounts | ı Fee | | | d Geologic Orig | • | | | | _ | | ssive | | | \ \s\ | | nts |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Each Major U | nit | | SCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| Nn anc | R E | BIC | De | Cooma | and and an | avel fill, 4/3, dry | . 10000 # | saculti anadad | n | Grap | Well | | ပို့ နှ | <u> ₹3</u> | Li Li | Pla Ind | P 2 | 14:00 - 14:40 |
| | | | -1 -2 -3 -4 -5 -5 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 | Sandy Silty c | silt, 3/2, wet | soft, medium pl soft, medium pl | lasticity lasticity | descriptions | Fill | | | | | | | | | |
| I here | by certif | fy that | the info | rmation | on this form | is true and cor | rect to th | e best of my ki | nowled | ge. | | | | | | | | 1 |
| Signa | - | | | b De | | | | AECOM | | | | | | | | | | Tel: Fax: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | Ro | ute To: | Watersh | ed/Wastewater | | Wa | ste Man | ageı | ment | | | | | | | | |
|--------------------|---------------------------------|-------------|-----------------|-----------|-----------------|--------------------------------------|--------------|---------------|----------|--------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--------|------------------|
| | | | | | Remedia | tion/Redevelop | ment 🗵 | Oth | ner 🗌 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Pag | ge 1 | of | 1 |
| Facilit | y/Projec | et Nam | ne | | | | | Lice | nse/Pern | nit/N | Monitor | ring Nı | ımber | | Boring | Numb | er | | |
| | | | | | alo Street | | | | 61540 | | | | | | 3 | 3_{M} | W-11 | | |
| Boring | g Drilleo | By: | Name o | f crew c | hief (first, la | st) and Firm | | Date Drill | ing Star | ted | Date I | Orilling | Comp | leted | Drillin | g Meth | od | | |
| Tor | ıy Kap | ugi | | 1 | | | | 2/2/202 | 20 | | 2/2/ | 2020 | | | | | | | |
| | site En | | | | Wall ID No | Common We | Il Nama | 3/3/202 | Static V | Vote | | 2020 | | e Eleva | hollow | stem | auge | rahala | Diameter |
| WICI | nque w | CII INO | • | DINK | WCII ID NO | | W-11 | Tilla | | | ISL | ,1 | Surrac | | et MS | ۲. | BC | | 4.50 |
| Local | Grid Or | igin | (es | stimated: | : 🔲) or | Boring Location | | <u> </u> | | | ' | | ,, | | Grid Lo | | | | |
| State | Plane | | | | N | I, E s/ | 'C/N | Lat _ | | ° — | '- | | - | | | \square N | | | □Е |
| | 1/4 | of | 1 | /4 of Se | | T 1 | N, R | Long_ | | 0 | | | " | | | □ S | | | Feet W |
| Facilit | y ID | | | | County | | | County | / Code | - 1 | | | • | Village | | | | | |
| | 1 | | 1 | | | | | | | _ - | Mani | towo | | | G '1 | D | | | |
| San | nple | | | | | | | | | | | | | | 5011 | Prope | erties | | |
| | Length Att. & Recovered (in) | ıts | eet | | | oil/Rock Descri | - | | | | | | | ve | | | | | |
| je je | Length Att. & Recovered (in | Blow Counts | Depth In Feet | | An | d Geologic Ori | | | ٥ | 2 | ္ပ | _ E | lΑ | Compressive Strength | le le | | ity | | RQD/ Comments |
| Number and Type | ngth |) MC | pth | | | Each Major U | nit | | ٥ |) | Graphic Log | Well Diagram | PID/FID | Compress Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |)QX |
| N W | Le | Bl | De | 7777.7 | | | 1.0/0 | | = = | | Grap Log | Ď Ä | PI | ညီ | Σ ပိ | ËË | Pla | P 2 | ≥ 3 |
| | | | F | | poorly grade | oarse sand and g | gravel, 3/2 | 2, moist, | | | XXX | | | | | | | | 9:50 - 10:20 |
| | | | -1 | | | | | | F | 11 | XXX | | | | | | | | |
| | | | Ė. | | | | | | | | XXX | | | | | | | | |
| | | | -2 | | | oarse sand and g | gravel, 3/2 | 2, wet, loose | е, | | | | | | | | | | |
| | | | <u>-3</u> | pooriy | graded | | | | | k | XXX | | | | | | | | |
| | | | Ė , | | | | | | | | XXX | | | | | | | | |
| | | | -4 | | | | | | F | 11 | \ggg | | | | | | | | |
| | | | E | | | | | | | | XXX | | | | | | | | |
| | | | - 5 | | | | | | | Š | \ggg | | | | | | | | |
| | | | E ₋₆ | | | | | | | | \bowtie | | | | | | | | |
| | | | E | Sandy | clay, 3/1, we | et, soft, high plas | sticity | | | | | | | | | | | | |
| | | | <u>-</u> 7 | | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | | |
| | | | - 8 | | | | | | | | | | | | | | | | |
| | | | Ė, | | | | | | | | | | | | | | | | |
| | | | - 9 | | | | | | | | | | | | | | | | |
| | | | E ₁₀ | | | | | | C | L | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | | | | | |
| | | | | End of | f boring at 13 | 3.5 feet bgs. Blir Well completed | nd drilled | ; description | ns | Ī | | | | | | | | | |
| | | | | monite | oring well. | on completed | . ao 1111-1° | . r compilar | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | - | y that | the info | rmation | on this form | is true and cor | | e best of m | y knowl | edg | е. | | | | | | | | |
| Signat | ure | 9 | aco | b Do | ean | | Firm | AECOM | | | | | | | | | | | Tel: Fax: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | Ro | oute To: | | shed/Waste | | | | Manag | ement | | | | | | | | |
|--------------------|---------------------------------|-------------|----------------|----------|--------------|---------------|-------------|-------------------|--------------|------------|----------------|-------------------|--|----------------------------------|---------------------|-----------------|---------------------|-----|------------------|
| | | | | | Remed | diation/Red | evelopm | ent 🛚 | Other | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Paş | ge 1 | of | 1 |
| Facilit | y/Projec | et Nam | ne | | | | | | License | /Permit | /Monito | ring Nu | ımber | | | g Numb | er | | |
| | | | | | alo Stre | | | | | 15404 | | | | | | | W-14 | ı | |
| - | | - | Name o | f crew c | hief (first, | last) and F | ìrm | | Date Drillin | g Started | d Date 1 | Drilling | Comp | leted | Drillin | ng Meth | od | | |
| Tor | ny Kap site En | ougi | mant | .1 | | | | | 3/3/2020 | | 2/2 | 2020 | | | 1 11 | | | | |
| | nique W | | | | Well ID N | No. Comm | on Well | Name | | tatic Wa | | | | e Eleva | | v stem | augei | | Diameter |
| ,,, | nque ;; | CII I TO | • | Brut | Well ID 1 | Commi | 3 MV | | T IIIdi 5 | Feet | | | Surrac | | et MS | L | 50 | | 4.50 |
| Local | Grid Or | rigin | (es | stimated | : 🗌) (| or Boring | | | 1 - | 0 | | | ,, | Local (| | | | | |
| State | | | | | | N, E | S/C | C/N | Lat | | | | _ | | | \square N | | | □ E |
| T | 1/4 | of | 1 | /4 of Se | | , T | N, | R | Long | | | | | | | t \square S | | | Feet W |
| Facilit | y ID | | | | County | | | | County C | ode | Civil T | own/Ci .towo(| | Village | | | | | |
| Con | nple | | | | | | | | | | Iviaiii | lowor | <u>. </u> | 1 | Cail | Prop | ntios. | | |
| Sai | | | | | | a 1175 1 | . | . • | | | | | | | 3011 | Prope | lues | | |
| | Length Att. & Recovered (in) | nts | eet | | | Soil/Rock | | | | | | | | ive | | | | | |
| er ype | h At erec | Cou | In I | | 4 | And Geolog | _ | | | N | .c | H H | | ress | n re | _ | ity | | lents |
| Number and Type | engtl ecov | Blow Counts | Depth In Feet | | | Each M | Iajor Uni | ΙŢ | | SC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | 200 | RQD/ Comments |
| Z G | L N | Bl | Ā | EII I. | Cand and | gravel, 3/2, | maist la | | ulti amadad | D | XXXX | <u>≽</u> <u>∩</u> | <u> </u> | \ <u>\(\) \(\) \(\) \(\)</u> | Σŭ | <u> </u> | Pl | Ь | 9:00 - 9:40 |
| | | | | I ILL. | Suria uria | graver, 5/2, | 1110131, 10 | os c , poo | rry graded | | | | | | | | | | 3.00 3.10 |
| | | | -1 | | | | | | | E:11 | | | | | | | | | |
| | | | _2 | | | | | | | Fill | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | | |
| | | | _3 | Silty | Nov. 2/1 x | et, soft, hig | h plactici | tsz | | | <i></i> | | | | | | | | |
| | | | E | Sitty | | ct, sort, mg | n piasuci | ity | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | | | | | | |
| | | | _5 | | | | | | | | | | | | | | | | |
| | | | - 3 | | | | | | | | | | | | | | | | |
| | | | <u>-</u> 6 | | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | | |
| | | | - 7 | | | | | | | | | | | | | | | | |
| | | | E . | | | | | | | | | | | | | | | | |
| | | | F-8 | | | | | | | CL | | | | | | | | | |
| | | | _9 | | | | | | | | | | | | | | | | |
| | | | Ė ĺ | | | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | | | | | | |
| | | | F 12 | | | | | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | | | |
| | | | <u> </u> | | | | | | | | | | | | | | | | |
| | | | F | End o | f haring at | 12.5 foot be | va Dlind | l deillad: | descriptions | | | 1 | | | | | | | |
| | | | | from s | soil cutting | s. Well con | npleted a | s NR-14 | 1 compliant | | | | | | | | | | |
| | | | | monite | oring well. | | | | | | | | | | | | | | |
| T 1 1 | | S. 414 | tha in C | | om 41:1:- C | | | .a.t. t.c. ±1 | haat of | rm av1 - 1 | loo | | | | | 1 | | | 1 |
| Signat | • | y mat | uie IIIIO | iiiation | on uns 10 | im is true a | | | best of my | Mowied | ige. | | | | | | | | |
| ~.B.IIII | | \bigcirc | aco | b Do | ean | | | <i>F</i> | AECOM | | | | | | | | | | Tel: Fax: |
| | | -// | | | | | | | | | | | | | | | | | |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | <u>R</u> | oute To: | Watershed/Wastewate Remediation/Redevel | | | _ | ement | | | | | | | | |
|--------------------|---------------------------------|-------------|-----------------|------------|--|-----------------|----------------------|-------------------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|----------|------------------|
| | | | | | | • | | | | | | | | Pac | ge 1 | of | 1 |
| | ty/Projec | | | | | | License/ | | Monito | ring N | umber | | Boring | Numb | er | | |
| | | | | | alo Street hief (first, last) and Firm | | 6061. Date Drilling | | Data I | \:11: | Comm | lata d | Drillin | | W-20 | <u> </u> | |
| | ıy Kap | - | ivallic v | of cicw ci | mer (mst, iast) and rimi | | Date Drilling | Started | Date L | Jrilling | g Comp | ietea | Drilling | g Metn | oa | | |
| On | site Er | iviroi | | | | | 3/3/2020 | | | 2020 | | | nollow | stem | augei | <u>r</u> | |
| WI Uı | nique W | ell No |). | DNR | Well ID No. Common V | Well Name MW-20 | Final Sta | itic Wa Feet I | | el | Surface | | tion et MSI | Γ. | Bo | | Diameter 4.50 |
| Local | Grid Oı | rigin | | estimated: | or Boring Loca | ation 🖂 | 1 | 0 | viol. | | ,, | | Grid Loc | | | | 1.50 |
| State | Plane | | | | · · · · · · · · · · · · · · · · · · · | S/C/N | Lat | | — <u>`</u> | | | | _ | □ N | | | E |
| Facilit | 1/4 ty ID | of | | 1/4 of Sec | ction , T County | N, R | Long County Co | | Civil To | own/C | | Village | Feet | □ s | | | Feet W |
| | -5 | | | | | | | | Mani | | | | | | | | |
| Sar | nple | | | | | | | | | | | | Soil | Prope | erties | | |
| | % (ii) | ıts | eet | | Soil/Rock Des | • | | | | | | e e | | | | | |
| er 'pe | Att ered | Cour | In F | | And Geologic C | _ | | S | . <u>2</u> | _ = | | ressir | ıre ıt | | ity | | ents |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | Each Major | Unit | | SC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | 200 | RQD/ Comments |
| Z E | J X | В | <u> </u> | Topsoi | il, grass | | | D | 71 18. 17.1 | ≱ <u>∩</u> | H G | SC | S O | T T | Pl Ir | Ъ | 8:00 - 8:45 |
| | | | Ē, | | | | | Topsoi | 1/ 1/1/ | | | | | | | | |
| | | | = 1 | FILL: | Fine to medium sand, 3/2, | moist, loose | e, poorly | | | | | | | | | | |
| | | | -2 | | | | | Fill | | | | | | | | | |
| | | | E -3 | | | | | | | | | | | | | | |
| | | | F | FILL: | Medium sand and gravel, | 2/2, wet, loo | se, poorly | | | | | | | | | | |
| | | | - 4 | | | | | | | | | | | | | | |
| | | | _5 | | | | | Fill | | | | | | | | | |
| | | | E | | | | | ''' | | | | | | | | | |
| | | | - 6 | | | | | | | | | | | | | | |
| | | | <u> </u> | | | | | | | | | | | | | | |
| | | | F ' | Silty c | lay, 3/1, wet, soft, high pla | asticity | | | | | | | | | | | |
| | | | E-8 | | | | | | | | | | | | | | |
| | | | <u>_</u> 9 | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | |
| | | | F 10 | | | | | CL | | | | | | | | | |
| | | | E ₁₁ | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | |
| | | | E ₁₃ | | | | | | | | | | | | | | |
| | | | F | End of | f boring at 13.5 feet bgs. I | Blind drilled: | descriptions | | | | | | | | | | |
| | | | | from s | oil cuttings. Well comple oring well. | ted as NR-14 | 41 compliant | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | - | fy that | the inf | ormation | on this form is true and o | l m: | - | nowled | ge. | | | | | | | | |
| Signa | une | | aco | 6 D | ean | Firm | AECOM | | | | | | | | | | Tel: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | <u>Rc</u> | oute To: | | d/Wastewater ion/Redevelop | □ ment ▷ | | _ | ement | | | | | | | | |
|--------------------|---------------------------------|---------------|----------------|------------------|--------------------------------|------------------------------------|---------------|------------------------|-------------------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|----------|------------------|
| | | | | | Remedia | ion redevelop | ment <u>z</u> | y Other | | | | | | | Dac | ge 1 | of | 1 |
| | ty/Projec | | | | | | | License/ | | Monito | ring N | umber | | Boring | Numbe | er | | 1 |
| | | | | | alo Street nief (first, las | t) and Firm | | 6061: Date Drilling | | 1 D.4. I | D.:11: | - C | 1.4.1 | | | $\frac{W-45}{1}$ | | |
| | ıy Kap | - | variic 0 | i cicw cii | ner (mst, ias | and Film | | | Started | Date 1 |)riiin | g Comp | netea | Drillin | g Metn | oa | | |
| Ons | site Er | viror | | | W-II ID N- | C W 1 | II NT | 3/2/2020 Final Sta | 4: - XX 7- | | 2020 | | | hollow | stem | augei | <u>r</u> | Diameter |
| WIUI | nique w | eli No | • | DNK | well ID No. | Common Wel | W-45 | | ne wa Feet l | | 21 | Surrac | e Eleva Fee | uuon et MS] | L | Во | | 4.50 |
| | Grid Or | rigin | (e | stimated: | □) or N | Boring Location, E S / | | Lat | 0 | , | | " | Local (| Grid Lo | cation | | | |
| State | Plane 1/4 | of | 1 | /4 of Sec | | ^ | C/N I, R | Long | | , | | " | | Feet | □ N □ S | | | ☐ E Feet ☐ W |
| Facilit | | - | | | County | | ,, 10 | County Co | de | Civil T | | - | Village | | | | | 1000 🗀 👯 |
| Con | nple | | | | | | | | | Mani | towo | c | | Cail | Prope | uti aa | | <u> </u> |
| Sai | 1 | | | | Sc | oil/Rock Descri | ntion | | | | | | | 3011 | Рторе | rues | | 1 |
| a) | Att. & ed (in) | ounts | ı Feel | | | l Geologic Orig | - | | | | | | ssive | | | > | | ıts |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Each Major U | | | CS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | uid | Plasticity Index | 00 | RQD/ Comments |
| Nur | Len | Blo | Dep | | | | | | S N | Grap Log | Well | | Cor | Cor | Liquid Limit | Plastic Index | P 200 | |
| | | | Ē | Clayey graded | fine to medi | um sand, 4/4, m | oist, loo | se, poorly | | | | | | | | | | 15:10 - 16:00 |
| | | | -1 | | | | | | CL | | | | | | | | | |
| | | | _2 | | | | | | CL | | | | | | | | | |
| | | | = | | | | | | | | | | | | | | | |
| | | | - 3 | FILL: I | Fine to mediu | m sand, 2/2, we | et, loose, | poorly graded | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | | | | | |
| | | | <u>-</u> 5 | | | | | | Fill | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | 6 | FILL: S | Sandy gravel, | 2/2, wet, loose, | , poorly g | graded | | | | | | | | | | |
| | | | <u> </u> | | | | | | | | | | | | | | | |
| | | | Ē | | | | | | | | | | | | | | | |
| | | | 8 | | | | | | Fill | | | | | | | | | |
| | | | <u>_</u> 9 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | 10 | Silty cl | lay, 4/1, wet, | soft, high plasti | city | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | | | | | |
| | | | 12 | | | | | | CL | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | | | | | |
| | | | | End of | boring at 13. | 5 feet bgs. Blir Well completed | nd drilled | ; descriptions | | 7///// | | | | | | | | |
| | | | | | oring well. | on completed | 30 1 W-1 | computiti | | | | | | | | | | |
| | | 2-41 4 | 4 | | 4.:. C | 1-4 | | . 1 4 . 6 . 1 | 1 . 1 | | | | | | | | | |
| Signat | - | _ | | | | is true and con | Tra: | AECOM | nowled | ge. | | | | | | | | Tel: |
| | | \mathcal{L} | aco | 6 De | an | | | LCOIVI | | | | | | | | | | Fax: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | Ro | ute To: | | d/Wastewa | | | _ | ement | | | | | | | | |
|--------------------|---------------------------------|----------------|-----------------|----------|-------------------------------|----------------------------|--------------------------------|--------------------------------|-----------|-----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--------|------------------|
| | | | | | Remedia | tion/Redev | elopment 🗵 | Other | | | | | | | | | | |
| E:11:4 | /D:- | -4 NT | | | | | | T: | /D :4 | /N / : 4 - | NI. | 1 | | D | Pag | | of | 1 |
| | y/Projec Mani | | | 0 Buff | alo Street | | | License 6061 | 5404 | Monito | ring Ni | ımber | | Boring | Number 1 | | | |
| Boring | g Drilleo | 1 By: 1 | | | hief (first, la | st) and Firr | n | Date Drilling | | l Date l | Drilling | Comp | leted | Drillin | | | | |
| Tor | ny Kap site En | ougi oviror | ment | a1 | | | | 3/2/2020 | | 3/2/ | 2020 | | 1 | ıollow | , ctom | 011001 | r | |
| | nique W | | | | Well ID No. | | | Final St | | ter Leve | | Surfac | e Eleva | tion | | Bo | rehole | Diameter |
| Local | Grid Or | ioin | ☐ (e: | rtimatad | : 🗌) or | | MW-58 cation | | Feet 1 | MSL | | | Fee Local (| et MS | | | | 4.50 |
| | Plane | ıgııı | ☐ (C: | stimated | N | | S/C/N | Lat | _ | ' | | _" | Local | JIIG LO | | | | □Е |
| E 11: | 1/4 | of | 1 | /4 of Se | | T | N, R | Long | | ' ' | | " | 7:11 | Feet | □ S | |] | Feet W |
| Facilit | y ID | | | | County | | | County C | ode | Civil T Mani | | | Village | | | | | |
| Sar | nple | | | | 1 | | | | | 1111111 | | | | Soil | Prope | erties | | |
| | & (in) | ts | et | | So | oil/Rock D | escription | | | | | | e, | | | | | |
| r pe | Att. | Jonn | In Fe | | An | _ | Origin For | | N | ွ | E | ا م | essiv h | er t | | ity | | ents |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Each Majo | or Unit | | SC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | 200 | RQD/ Comments |
| Z E | R C | B | | Fine to | o medium sar | nd, 4/3, moi | st, loose, poor | rly graded | D | 0 7 | ≥ □ | B | 2 2 | Σŭ | 22 | Pl | Ь | 11:20 - 12:15 |
| | | | E ₁ | | | | , , , | | SP | | | | | | | | | |
| | | | F . | | | | | | | | | | | | | | | |
| | | | -2 | Silty c | clay, black and | l gray, mois | st, soft, mediu | ım plasticity, | CI | | | | | | | | | |
| | | | <u>_</u> 3 | | g petroleum oc | | 0.1:1.1 | | CL | | | | | | | | | |
| | | | E | petrole | eum odor | t gray (6/2), | , soft, high pla | asticity, strong | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | | | | | |
| | | | _5 | | | | | | CL | | | | | | | | | |
| | | | Ė, | | | | | | | | | | | | | | | |
| | | | F-6 | | | | | | | | | | | | | | | |
| | | | 7 | Sandy | silt, 6/2, wet | soft, high | plasticity, trac | ce gravel | | | | | | | | | | |
| | | | Ē. | | , , , , | , , 6] | i 37 | 8 | | | | | | | | | | |
| | | | - 8 | | | | | | | | | | | | | | | |
| | | | -9 | | | | | | | | | | | | | | | |
| | | | E ₁₀ | | | | | | | | | | | | | | | |
| | | | F | | | | | | SM | | | | | | | | | |
| | | | F11 | | | | | | | | | | | | | | | |
| | | | E ₁₂ | | | | | | | | 1 | | | | | | | |
| | | | Ē - | | | | | | | | | | | | | | | |
| | | | = 13 | | | | | | | | | | | | | | | |
| | | | | End of | f boring at 13 soil cuttings. | .5 feet bgs. Well compl | Blind drilled leted as NR-1 | ; descriptions 41 compliant | | | | | | | | | | |
| | | | | monite | oring well. | 1 | | • | | | | | | | | | | |
| I herel | v certif | v that | the info | rmation | on this form | is true and | correct to th | e best of my k | nowled | oe. | | | | | | | | |
| Signat | | _ | | | | 15 Huc and | T | AECOM | 110 W ICU | 5°· | | | | | | | | Tel: |
| | | 4 | aco | b D | ean | | | | | | | | | | | | | Fax: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | <u>Rc</u> | oute To: | | | | vater | | | Manage | ement | | | | | | | | |
|--------------------|---------------------------------|----------------|----------------|----------|----------------------|-----------|-----------|----------------|-------------|------------------|--------|-----------------|-----------------|---------|-------------------------|---------------------|-----------------|---------------------|--------|------------------|
| | | | | | Ren | mediati | on/Rede | velopment | \boxtimes | Other | | | | | | | | | | |
| E 11: | /D : | . 3.7 | | | | | | | _ | | TD :// | . | | 1 | | D : | Pag | | of | 1 |
| | y/Projec Mani | | | 0 Buff | alo St | reet | | | | License/ 6061 | | Monito | ring N | umber | | Boring | | er W-64 | • | |
| Boring | g Drilleo | d By: 1 | | | | | and Fir | rm | D | ate Drilling | | Date I | Drilling | g Comp | oleted | Drillin | | | | |
| Tor | ny Kap site Er | ougi oviror | ment | al | | | | | 1 | 3/2/2020 | | 3/2/ | 2020 | | 1 | 2011033 | ı stom | augei | r | |
| | nique W | | | | Well II | D No. | | n Well Nam | ne | Final Sta | | ter Leve | | | e Eleva | tion | | Bo | rehole | Diameter |
| Local | Grid Oı | rigin | | stimated | · 🗆) |) or 1 | | 3_MW-6 | | | Feet I | MSL | | | Fee Local C | et MS | | | | 4.50 |
| | Plane | ııgııı | ☐ (C | stimated | . Ц | N, | | S/C/N | <u> </u> | Lat | _ | ' | | _" | Local | JIIG LO | | ſ | | □Е |
| E 11. | 1/4 | of | 1 | /4 of Se | | , | T | N, R | | Long | | C: 1T | | " | 6 7 * 11 | Feet | : 🗆 s | | | Feet W |
| Facilit | yD | | | | Count | У | | | | County Co | ode | Civil T Mani | | - | Village | | | | | |
| Sar | nple | | | | <u> </u> | | | | | | | | | | | Soil | Prope | erties | | |
| | (ii) & | ts | g | | | Soi | l/Rock I | Description | | | | | | | ့ မွ | | | | | |
| er 7pe | Att. ered | Coun | In Fe | | | | _ | c Origin Fo | r | | \sigma | . <u>.</u> | | | ressiv | ıre ıt | | ity | | ents |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | | Each Ma | ijor Unit | | | SC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| <u>Z</u> 8 | 7 % | В | <u> </u> | Topso | oil, grass | s | | | | | D . | 1/1.1/1 | > | I D | 0 8 | 20 | 7 7 | P II | | 13:30 - 14:50 |
| | | | - ₁ | | | | | | | | Topsoi | 11 11 | | | | | | | | |
| | | | Ē | gradeo | | o mediu | m sand, | moist, 3/2, 1 | oose, | poorly | | | | | | | | | | |
| | | | _2 | | | | | | | | CL | | | | | | | | | |
| | | | _3 | | | | | | | | | | | | | | | | | |
| | | | E , | | | | | | | | | | | | | | | | | |
| | | | - 4 | Clayey | y fine to | o mediu | m sand, | 3/2, wet, loc | se, po | oorly | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | | | | | | |
| | | | <u>-</u> 6 | | | | | | | | CL | | | | | | | | | |
| | | | Ė Č | | | | | | | | | | | | | | | | | |
| | | | - 7 | | | | | | | | | | | | | | | | | |
| | | | E_8 | 0:15.6 | o | 1: | | 1 2/2 1 | 1 | 11 | | | | | | | | | | |
| | | | E . | gradeo | d, trace | gravel | arse san | d, 2/2, wet, 1 | ioose, | well | | | | | | | | | | |
| | | | - 9 | | | | | | | | SM | | | | | | | | | |
| | | | 10 | Silty c | clav. vei | ry light | silvery g | ray (6/2), we | et. sof | t. high | | | | | | | | | | |
| | | | - -11 | plastic | city, stro | ong peti | oleum oc | dor | , | -,8 | | | | | | | | | | |
| | | | - 11 | | | | | | | | CI | | | | | | | | | |
| | | | 12 | | | | | | | | CL | | | | | | | | | |
| | | | - -13 | | | | | | | | | | | | | | | | | |
| | | | | End o | f boring | 2 at 13.5 | feet bgs | s. Blind dril | led: de | escriptions | | | | | | | | | | |
| | | | | from s | soil cutt oring w | ings. V | Vell com | pleted as NR | R-141 | compliant | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | y that | the info | rmation | on this | form i | s true an | | | est of my k | nowled | ge. | | | | | | | | |
| Signat | ture | 9 | aco | b Do | ean | | | Firm | Al | ECOM | | | | | | | | | | Tel: Fax: |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | Ro | ute To: | | hed/Wastewater | | | | ement | | | | | | | | |
|--------------------|---------------------------------|-------------|----------------|----------|----------------|--------------------|----------------|---------------|----------|----------------|------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------------|------------------|
| | | | | | Remedi | iation/Redevelo | pment [2 | Other | | | | | | | | | | |
| | | | | | | | | | | | | | | | Pag | ge 1 | of | 1 |
| Facilit | y/Projec | et Nam | ie | | | | | License | /Permit | /Monito | ring Nu | mber | | | g Numb | er | | |
| | | | | | alo Stree | | | | 5404 | | | | | | | W-72 | | |
| | | - | Name o | f crew c | hief (first, l | last) and Firm | | Date Drilling | g Starte | d Date | Drilling | Comp | leted | Drillir | ng Meth | od | | |
| Ton | iy Kap site En | ugi | monte | .1 | | | | 3/2/2020 | | 2/2 | /2020 | | ١, | 11 | | | | |
| | nique W | | | | Well ID No | o. Common W | ell Name | Final St | | | | Surfac | e Eleva | | v stem | auge | r rehole | Diameter |
| | 1 | | - | | | | /W-72 | | Feet | | | | | et MS | L | | | 4.50 |
| | Grid Or | igin | (es | stimated | | Boring Locat | ion 🖂 | <u> </u> | 0 | | | ,, | Local (| Grid Lo | cation | | | |
| State | | | | | | | /C/N | Lat | | | | | | | □ N | | | □ E |
| E 114 | 1/4 | of | 1 | /4 of Se | | T | N, R | Long | | | | | 6.7*11 | | t 🗆 S | | | Feet W |
| Facilit | y ID | | | | County | | | County C | ode | | own/Ci itowoo | | Village | | | | | |
| San | nple | | | | | | | | | Iviaii | llowoc | , | | Soil | Prop | erties | | |
| San | | | | | | C - 11/D1- D | | | | | | | | | Пор | liics | | |
| | t. & 1 (in | nts | eet | | | Soil/Rock Desc | | | | | | | ive | | | | | , s |
| er ype | h At | Con | [H] | | А | nd Geologic O | _ | | S | . <u>2</u> | am | | ress | ure n | | city | | nent |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Each Major | Omt | | SC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | 200 | RQD/ Comments |
| <u>a</u> N | N N | B | | Sand | and aroual | moist, 4/4, poor | v graded | loosa | | Q Y | ≱ <u>∩</u> | [A | O S | Σŭ | 77 | 모면 | Ъ | 10:25 - 11:00 |
| | | | E | Sand t | ana gravei, i | moist, 4/4, poor | y graded, | 1003€ | | . 6 | | | | | | | | 10.23 11.00 |
| | | | -1 | | | | | | GW | | | | | | | | | |
| | | | <u>-</u> 2 | | | | | | | . 8. | | | | | | | | |
| | | | = 1 | Silty c | clay, wet, 4/4 | 4, soft, high plas | ticity | | | | | | | | | | | |
| | | | _3 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | | | | | |
| | | | _ 5 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | -6 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | - 7 | | | | | | | | | | | | | | | |
| | | | E | | | | | | CL | | | | | | | | | |
| | | | E-8 | | | | | | | | | | | | | | | |
| | | | _9 | | | | | | | | | | | | | | | |
| | | | Ė | | | | | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | | | | | |
| | | | F | | | | | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | | | | | |
| | | | <u> </u> | | | | | | | | | | | | | | | |
| | | | = | E. J. | £1i | 13.5 feet bgs. B | i 4 4iii - 4 | 1. 4:-4: | | | 1 | | | | | | | |
| | | | | from s | soil cuttings. | . Well complete | d as NR-1 | 41 compliant | | | | | | | | | | |
| | | | | monito | oring well. | | | | | | | | | | | | | |
| <u>, ,</u> | | . ,1 | 4 | | 4: 0 | • , • | | 1 | | <u> </u> | | | | | | | | |
| I hereb | • | y that | ine into | rmation | on this for | m is true and co | læ: | | nowled | ige. | | | | | | | | |
| Signal | uic | () | aco | 6 Do | ean | | 1.11111 | AECOM | | | | | | | | | | Tel: Fax: |
| | | -A | | | | | | | | | | | | | | | | ı ax. |

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

| | | | Ro | oute To: | | hed/Wastev liation/Rede | vater 🗀 velopment 🛭 | | _ | ement | | | | | | | | |
|--------------------|---------------------------------|---------------|-----------------|------------|-------------|----------------------------|------------------------------------|------------------|-----------------|----------------|-----------------|----------|-------------------------|---------------------|-----------------|---------------------|--------|------------------|
| | | | | | | | 1 - | | | | | | | | Pag | | of | 1 |
| | y/Projec Mani | | | 0 Buffal | lo Stree | •t | | License | /Permit 5404 | /Monito | ring Nu | ımber | | Boring | | er W-77 | , | |
| | | | | | | last) and Fi | rm | Date Drilling | | d Date 1 | Drilling | Comp | leted | Drillin | | | | |
| | ny Kap site En | | nmenta | al | | | | 3/2/2020 | | 3/2/ | /2020 | | 1 | hollow | / stem | augei | r | |
| | nique W | | | | Well ID N | | n Well Name | Final St | | ter Leve | | Surfac | e Eleva | tion | | | rehole | Diameter |
| Local | Grid Or | rigin | ☐ (es | stimated: | □) oi | | 3_MW-77 cocation ⊠ | <u> </u> | Feet 1 | MSL | | | | et MS Grid Lo | | | | 4.50 |
| | Plane | -6 | | | | N, E | S/C/N | Lat | | ' | | -" | 2000 | | \square N | | | □Е |
| Facilit | 1/4 | of | 1 | /4 of Sect | County | T | N, R | Long County C | ode | Civil T | lown/Ci | ty/ or V | Village | Feet | : 🗆 s | <u> </u> |] | Feet W |
| raciii | ly ID | | | | Jounty | | | County | ouc | 1 | itowoo | - | village | | | | | |
| Sar | nple | | | | | | | ' | | | | | | Soil | Prop | erties | | |
| | & (in) | ıts | eet | | | | Description | | | | | | \ ve | | | | | |
| ser ype | h Att | Com | In F | | A | and Geologi Each Ma | c Origin For | | S | nic | am | <u>P</u> | ressi | ure | - | city | | , nents |
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | | | Each Ma | ijoi Omi | | USC | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| | | | = | Topsoil, | , grass | | | | Topso | 17.11 | 4 | | | | | | | 12:40 - 13:20 |
| | | | -1 | Sandy c | lay, 4/4, r | moist, mediu | ım soft, mediu | m plasticity | | | | | | | | | | |
| | | | <u></u> | | | | | | CL | | | | | | | | | |
| | | | E. | | | | | | | | | | | | | | | |
| | | | -3 | Sandy c | lay, 4/4, v | wet, soft, hig | gh plasticity, pe | etroleum odor | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | | | | | |
| | | | <u>-</u> 5 | | | | | | | | | | | | | | | |
| | | | = 3 | | | | | | | | | | | | | | | |
| | | | -6 | | | | | | | | | | | | | | | |
| | | | E_7 | | | | | | | | | | | | | | | |
| | | | F ' | | | | | | CL | | | | | | | | | |
| | | | E-8 | | | | | | | | | | | | | | | |
| | | | <u>_</u> 9 | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | = 10 | | | | | | | | | | | | | | | |
| | | | E ₁₁ | | | | | | | | | | | | | | | |
| | | | E | | | | | | | | | | | | | | | |
| | | | 12 | Silty sar | nd, 4/4, w | ret, loose, po | orly graded | | | <i></i> | 1 | | | | | | | |
| | | | _13 | | | | | | SM | | | | | | | | | |
| | | | - | from so | | | s. Blind drilled pleted as NR-1 | | | | | | | | | | | |
| I here | by certif | y that | the info | rmation o | n this for | m is true ar | nd correct to th | ne best of my l | nowled | lge. | I | I | 1 | 1 | 1 | 1 | | I |
| Signa | | $\overline{}$ | | b De | | | Tr. | AECOM | | | | | | | | | | Tel: |
| | | \mathcal{J} | uco | | <u>un</u> | | | | | | | | | | | | | Fax: |

Appendix B Well Construction Forms and Development Forms

Well Construction Forms

| State of Wisconsin Department of Natural Resources Route To: | | | Waste Mana | agement | MONITORING WELL CONSTRI Form 4400-113A Rev. 7-9 | Property of the Parket | ION |
|--|--------------------|--|--------------------|---------------------|---|------------------------|--------|
| Facility/Project Name | Local Grid Local | ation of Well | | | Well Name | 55 | |
| 2010 AND | | ft. | e [| □ E. | 1 MW-10 | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Orio | rin |) or W | □ W. | Wis. Unique Well No. DNR Well N | Juml | ner |
| Programme Designation of the Company | Local Glid Olig | Long. | | " " | Wis. Onique Wen No. Divic Wen I | runn | JCI |
| 60615404 Facility ID | | | | | Date Well Installed | | |
| Facility ID | St. Plane | ft. N, | | ft. E. S/C/N | 7 | | |
| The Carlotte | Section Locatio | n of Waste/Source | | | 03/03/2020 | 1.5 | |
| Type of Well | 1/4 of | 1/4 of Sec | т 1 | N R D W | Well Installed By: (Person's Name a | nd F | irm) |
| - | | ll Relative to Waste/Sou | | Gov. Lot Number | Tony Kapugi | | |
| Distance from Waste/ Source ft. Enf. Stds. Apply | u 🗆 Upgrad | lient s □ Side gradient n □ Not | egradient Known | 1 | Onsite Environme | enta | d |
| A. Protective pipe, top elevation | ft. MSL | | | Cap and lock? | | | No |
| | ft. MSL | | 2. | Protective cover pi | | | 0 |
| B. Well casing, top elevation | II. IVISL | | | a. Inside diameter: | - | 4 | .0 in |
| C. Land surface elevation | ft. MSL | | | b. Length: | = | | .0_ ft |
| D. Surface seal, bottom ft. MSL | or ft | 5215216 | 1831831 | c. Material: | Steel | | 0 4 |
| | OI II. | 2102102 | 为是外部 为 | | Other | | |
| 12. USCS classification of soil near screen: | | TANKEY IN IN | NAK TAK TAK | | ection? | | No |
| | W □ SP □ | | // | If yes, describe: | | | |
| SM SC ML MH C Bedrock | L⊠ CH□ | | 1 13 | Surface seal: | Bentonite | | 3 0 |
| 1640 1640 1640 1640 1640 1640 1640 1640 | | | \ | Surface Seat. | Concrete | | 0 1 |
| 13. Sieve analysis attached? | es 🖾 No | ft. | | | Other | | - |
| 14. Drilling method used: Rota | y □ 50 | | `4. | Material between v | well casing and protective pipe: | | |
| Hollow Stem Aug | er ⊠ 4 1 | | | | Bentonite | | |
| | er 🗆 | | | | Sand Other | | |
| | | | 5 | A noular space see | l: a. Granular/Chipped Bentonite | | 2.2 |
| 15. Drilling fluid used: Water □ 0 2 A | ir □ 0 1 | | | | ud weight Bentonite-sand slurry | | |
| Drilling Mud □ 0 3 Nor | | | | | ud weight Bentonite-sand slurry ud weight Bentonite slurry | | |
| | | | | % Benton | | | |
| 16. Drilling additives used? □ Y | es 🛮 No | | | | | | 3 0 |
| 2001 bild | | | | | volume added for any of the above | _ | |
| Describe | | | f | How installed: | | | |
| 17. Source of water (attach analysis, if required | | | | | Tremie pumped | | |
| 177 Source of Water (attach analysis) if required | ,, | | | | Gravity | | 0 8 |
| | | | 6. | Bentonite seal: | a. Bentonite granules | | |
| ,- | | | | b. □ 1/4 in. ⊠ 3 | 3/8 in. □ 1/2 in. Bentonite chips | \boxtimes | 3 2 |
| E. Bentonite seal, top ft. MSL | or0.20 | | | | ton Hole Plug 0.75 ft ³ Other | | |
| 61 | | | / ,7. | Fine sand material | : Manufacturer, product name & mes | h siz | e. |
| F. Fine sand, top ft. MSL | or | ft. | // | a | | | |
| | | | / / | b. Volume added | ft ³ | | |
| G. Filter pack, top ft. MSL | or2.50 | ft. \ \ \ \ \ \ \ \ | / 8. | Filter pack materia | l: Manufacturer, product name & me | sh si | ize |
| 1.16 m = 1. | | | | a F | Red FlintSand and Gravel | | |
| H. Screen joint, top ft. MSL | or 3.00 | ft _ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | b. Volume added | | _ | |
| Ti. Sereen John, top | · | ``` | / 0 | Well casing: | Flush threaded PVC schedule 40 | | 23 |
| I. Well bottom ft. MSL | or 13.50 | | 2. | wen casing. | Flush threaded PVC schedule 80 | | |
| i. Well bottom | 01 | " \ | | | | | |
| | 12.50 | | \ | 320 200 202 | PVC Screen Other | | |
| J. Filter pack, bottom ft. MSL | or | II. | _ 10. | Screen material: | April 10 and 10 | 1 200 | Tank! |
| | 12.50 | | | a. Screen Type: | Factory cut | | |
| K. Borehole, bottom ft. MSL | or13.50 | ft | | | Continuous slot | | |
| | | \ \///\/ | | | Other | | - |
| L. Borehole, diameter4.50 in. | | V/////X | | | | | |
| | | | | c. Slot size: | | | in |
| M. O.D. well casing in. | | | | d. Slotted length: | | | ft |
| 3 | | | `11. | Backfill material (| below filter pack): None | | 1 4 |
| N. I.D. well casing in. | | | | - | Other | \boxtimes | |
| <u> </u> | | | | | | | |
| I hereby certify that the information on this form | n is true and corr | ect to the best of my kn | owledge. | | | | |
| Signature | | Firm AECOM | | | | _ | Tel: |
| Jacob Dean | | ALCOM | | | | | Fav: |

| State of Wisconsin | | | | | | | | |
|---|--------------------|--|-----------------|-------------------------|--|------------------|--------------|------------|
| Department of Natural Resources Route To: | | Vastewater | | agement \square | MONITORING WELL CONST Form 4400-113A Rev. 7 | | TIC | ON |
| Facility/Project Name | Local Grid Lo | /Redevelopment 🛛 | Other | | Well Name | - 7 0 | | |
| • • | Local Glid Lo | ft. □ S | A | □ <u>E</u> . | 1 MW-14 | | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Ori | igin ☐ (estimated: | | □ W. Yell Location ⊠ | Wis. Unique Well No. DNR Wel | 1 Nur | mhe | — |
| 60615404 | Lat | | | | | | | |
| Facility ID | 1 | _ | | | Data Wall Installed | | | |
| - | St. Plane | on of Waste/Source | | ft. E. S/C/N | 03/04/2020 | | | |
| Type of Well | 1 | | | | Well Installed By: (Person's Name | and | Fin | n) |
| | | 1/4 of Sec | | | | | | • |
| Distance from Waste/ Source Enf. Stds. Apply | u □ Upgra | ell Relative to Waste/So dient s □ Sid gradient n □ No | legradient | Gov. Lot Number | Onsite Environ | men | tal | |
| | • | | | . Cap and lock? | | es [| | No |
| 11. | | | 2. | . Protective cover | pipe: | | | |
| B. Well casing, top elevation | ft. MSL | · ' - | ' > / | a. Inside diamete | r: | | 4.0 | in. |
| C. Land surface elevation | ft. MSL |] [[| | b. Length: | | | | L ft. |
| D. Surface seal, bottom ft. MSI | ~ f | | 15.25.2 | c. Material: | | æl ∑ | |) 4 |
| | .01 1 | | A STATE OF | | | er [| | |
| 12. USCS classification of soil near screen: | | | - | d. Additional pro | | | <u> </u> | No |
| | W SP L CH | | | If yes, describ | e: | | | |
| Bedrock | сы сы | | \ \3. | . Surface seal: | Benton | | | |
| 13. Sieve analysis attached? | es 🛮 No | │ | | | Concre Oth | _ | | |
| | | ft. | | Matarial hatman | well casing and protective pipe: | er L | | |
| | ry □50 | │ | * · | . Matemai detween | wen casing and protective pipe: Benton | ita 5 | 2 1 3 | 2 0 |
| Hollow Stem Aug | er 🗆 💶 | | | | | er [| | 381 |
| | м Ш | │ | | 1 | | | | |
| 15. Drilling fluid used: Water □ 0 2 A | ir □01 | | | . Annular space se | al: a. Granular/Chipped Benton mud weight Bentonite-sand slur | | | |
| Drilling Mud □ 0 3 Nor | | | | | mud weight Bentonite shu | | | |
| | | | | l% Bento | - | | | |
| 16. Drilling additives used? □ Y | es 🛛 No | │ | | | wolume added for any of the above | ui L | | , 0 |
| | | │ | 1 | f. How installed | • | nie 🗆 | ٦ (|) 1 |
| Describe | | │ | _ | | Tremie pump | | | |
| 17. Source of water (attach analysis, if required | l): | | | | Gravi | | | |
| | | | 6. | . Bentonite seal: | a. Bentonite granul | es [|] 3 | 3 3 |
| | | - | / | | 13/8 in. □ 1/2 in. Bentonite chi | | | |
| E. Bentonite seal, top ft. MSL | or0.20 | ft 🐰 🕷 | / | c. Hallib | II.1. D1 . 0 / 03 | er □ | |) <u> </u> |
| | | | ,7, | . Fine sand materia | al: Manufacturer, product name & n | esh s | size | |
| F. Fine sand, top ft. MSL | or | ft. \ \ 💥 🕷 | | a | | | | |
| · - | | \ \ \ \ \ \ \ \ \ | / / | b. Volume added | ft³ | | | |
| G. Filter pack, top ft. MSL | or2.50 | ft. | ,8. | . Filter pack mater | ial: Manufacturer, product name & | nesh | size | ð |
| | | | | a | Red FlintSand and Gravel | | _ | |
| H. Screen joint, top ft. MSL | or3.00 | ft. | | b. Volume added | ft ³ | | | |
| | | | 9. | . Well casing: | Flush threaded PVC schedule | 10 [|] 2 | 23 |
| I. Well bottom ft. MSL | or <u>13.50</u> | ft. | | | Flush threaded PVC schedule | 30 E |] 2 | 2 4 |
| | | | | | | er [| J | |
| J. Filter pack, bottom ft. MSL | or13.50 | # / # | 10. | . Screen material: | PVC Screen | | | 381. |
| | | | | a. Screen Type: | Factory of | ut D | ₫ 1 | 11 |
| K. Borehole, bottom ft. MSL | or13.50 | ft | | | Continuous si | | | |
| | | ~ <i>\/////</i> | | | Oth | er [| J | 131 |
| L. Borehole, diameter4.50 in. | | V | \ | b. Manufacturer | | | | |
| | | | | c. Slot size: | | _ | | _ in. |
| M. O.D. well casing in. | | | \ | d. Slotted length | | <u> </u> | | _ ft. |
| | | | `11. | . Backtill material | • • • | ne [| | |
| N. I.D. well casing 2.00 in. | | | | | Otr | er D | SI | 392° |
| 71 1 10 11 12 12 13 13 | | | | | | | | |
| I hereby certify that the information on this formation Signature | | T: | nowledge. | | | | | |
| Jacob Dean | | Firm AECOM | | | | | | Tel: |

| State of Wisconsin | | | | | | | |
|---|-------------------|---|--|-------------------------|--|--------------|------------------|
| Department of Natural Resources Route To: | | Vastewater | | agement \square | MONITORING WELL CONSTI | | ΓΙΟΝ |
| Facility/Project Name | Local Grid Loc | /Redevelopment 🛛 | Other | | Well Name | | |
| • • | Local Glid Loc | tt. □ S | A | □ <u>E.</u> | 1 MW-17 | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Ori | igin ☐ (estimated: | | □ W. Yell Location ⊠ | Wis. Unique Well No. DNR Well | Num | her |
| 60615404 | Lat | | | | | 114411 | |
| Facility ID | 1 | _ | | | Date Well Installed | | |
| | St. Plane | on of Waste/Source | | ft. E. S/C/N | 03/03/2020 | | |
| Type of Well | 1 | | | □E | Well Installed By: (Person's Name | and I | im) |
| V- | | 1/4 of Sec | | | Tony Kapugi | | , |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgra | fell Relative to Waste/So dient s □ Sid gradient n □ No | legradient | Gov. Lot Number | Onsite Environn | nent | al |
| | • | gradient II - No | | . Cap and lock? | <u> </u> | === es □ | No. |
| A. Protective pipe, top elevation | It, MSL | | T | . Protective cover | | — | - 10 |
| B. Well casing, top elevation | ft. MSL | , | | a. Inside diameter | · - | | 4.0 in. |
| C. Land surface elevation | ft. MSL | | | b. Length: | | | 5.0 ft. |
| | | | N TOWN | c. Material: | Ste | el 🗵 | 04 |
| D. Surface seal, bottom ft. MSI | _or f | t. | | | | er 🗆 | |
| 12. USCS classification of soil near screen: | | | A CONTRACTOR OF THE PARTY OF TH | d. Additional pro | | | No |
| | W D SP D | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | $\Lambda \setminus$ | If yes, describe | e: | | |
| SM SC ML MH C | L⊠ CH□ | ft. | \ | . Surface seal: | Bentoni | æ 🗆 | 3 0 |
| | 53.37 | | \ " | . Darieve bear. | Concre | | |
| , | es 🛛 No | ft. \ | | | Oth | ır 🗆 | · |
| | ry □50 | │ | `4. | . Material between | well casing and protective pipe: | _ | |
| Hollow Stem Aug | | │ | | | Sand Bentoni | | 5.977 |
| Oth | er 🗆 | | | | Othe | er 🗆 | 2.33.4 |
| 15 Delling G. M. and Winter Fl. O. A. | :- D01 | | 5. | . Annular space se | 4.1 | | |
| | ir □01 | │ | ь | | mud weight Bentonite-sand slurr | | |
| Drilling Mud □ 0 3 Nor | ne 🛮 99 | | c | | nud weight Bentonite sluri | | |
| 16. Drilling additives used? □ Y | es 🛮 No | │ | d | l% Benton | | ıt 🗆 | 50 |
| | _ = 1. | | e | | volume added for any of the above | | |
| Describe | | | 1 | f. How installed | | | |
| 17. Source of water (attach analysis, if required | i): | | | | Tremie pumpe | | |
| | | | _ | D | Gravit | | |
| | | J 🙀 🧱 | /°. | Bentonite seal: | a. Bentonite granuk | | |
| T.D | or0.20 | . 🛭 | | | 3/8 in. □ 1/2 in. Bentonite chip rton Hole Plug 0.5 ft ³ Oth | xs ⊠ er □ | 3.2.6 |
| E. Bentonite seal, top ft. MSL | or | | | | d: Manufacturer, product name & m | | |
| F. Fine sand, top ft. MSL | ~** | ft. | / /" | | a. Manufacturer, product manic of m | MALI ST | ~ |
| F. Fine sand, top ft. MSL | or | \ \ X X | | a b. Volume added | ft ³ | | |
| G. Filter pack, top ft. MSL | or2.50 | | / , | | ial: Manufacturer, product name & r | nach (| siza. |
| o. Their pack, wp | 01 | * \ | / / " | • | Red FlintSand and Gravel | NAME OF | 1120 |
| H. Screen joint, top ft. MSL | or3.00 | , \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | a b. Volume added | | | i |
| ii. person joint, up | <u> </u> | ^·· | / 。 | . Well casing: | Flush threaded PVC schedule 4 | Λ 🗆 | 23 |
| I. Well bottom ft. MSL | or13.50 | | 7. | . Won casing. | Flush threaded PVC schedule 8 | | |
| | VI | ft. | | | | er 🗆 | 20.00 |
| J. Filter pack, bottom ft. MSL | or13.50 | | 10 | . Screen material: | | • ⊔ | 388 |
| J. 1 1101 pack, commi | <u> </u> | ** | ~10. | a. Screen Type: | Factory c | — ıt ⊠ | 11 |
| K. Borehole, bottom ft. MSL | or 13.50 | А. ////// | | a. Scroon Type. | Continuous sk | | |
| 1. 101011010, 000011 | | · \ ///// | | | Oth | | |
| L. Borehole, diameter4.50 in. | | | | b. Manufacturer | | • □ | Accident Section |
| L. Dolonolo, analicadi in. | | | | c. Slot size: | | | in. |
| M. O.D. well casing in. | | | | d. Slotted length: | • | | ft. |
| | | | \ _{11.} | | | e □ | 14 |
| N. I.D. well casing in. | | | | | | er 🛛 | 5.77.75 |
| | | | | | | | |
| I hereby certify that the information on this form | n is true and cor | rrect to the best of my k | nowledge. | | | | |
| Signature | | Firm AECOM | _ | | | | Tel: |
| Jacob Dean | | 11100111 | | | | | For: |

| State of Wisconsin | | | | | | | | |
|---|------------------|--|-----------------|--|--|-------------|-------------|--------------|
| Department of Natural Resources Route To: | | Vastewater | | agement \square | MONITORING WELL CONS' Form 4400-113A Rev. | | | ION |
| Facility/Project Name | Local Grid Loc | /Redevelopment 🛛 | Other | | Well Name | 1-70 | | |
| • | Local Glid Loc | ft. □ S | A | □ <u>E.</u> | 1 MW-19 | | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Ori | gin (estimated: | | □ W. ell Location ⊠ | Wis. Unique Well No. DNR We | ell Nr | ımb | |
| 60615404 | Lat° | | | | | | | _ |
| Facility ID | | | | | Data Well Installed | | | |
| • | St. Plane | on of Waste/Source | | ft. E. S/C/N | 03/03/2020 | | | |
| Type of Well | 1 | | | 📮 | Well Installed By: (Person's Nam | ie an | d Fi | m) |
| | | 1/4 of Sec ell Relative to Waste/So | | N, R \bigcup \text{V} Gov. Lot Number | | į | | |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgra | | legradient | Gov. Lot Number | Onsite Environ | ıme | ntal | i |
| | • | | | . Cap and lock? | | Yes | | No |
| | ft. MSL | | 2. | Protective cover | | | | _ |
| B. Well casing, top elevation | II. MSL | | / | a. Inside diamete | ar: | _ | <u>4.</u> | 0 in. |
| C. Land surface elevation | ft. MSL | | . | b. Length: | _ | _ | | <u>0</u> ft. |
| D. Surface seal, bottom ft. MSI | _ or f | | BANK | c. Material: | | teel her | | 04 |
| 12. USCS classification of soil near screen: | | | 100000 | d. Additional pro | | ner Yes | | No |
| | W□ SP □ | | X | | e: | | | 110 |
| | L 🛛 CH 🗆 | | | • | Bentor | | - _ | 3.0 |
| Bedrock □ | | │ | `3. | . Surface seal: | Conc | | | |
| 13. Sieve analysis attached? | es 🛭 No | | | | Ot | her | | |
| 14. Drilling method used: Rota | ry □ 5 0 | | \ 4. | . Material between | well casing and protective pipe: | | | |
| Hollow Stem Aug | er ⊠ 4 1 | | | | Benton | nite | \boxtimes | 30 |
| Oth | er 🗆 | | | | Sand Ot | her | | 331 |
| | | ft. | 5. | . Annular space se | eal: a. Granular/Chipped Benton | nite | | 33 |
| | ir □01 | | b | oLbs/gal | mud weight Bentonite-sand slu | nry | | 35 |
| Drilling Mud □ 0 3 No | ne ⊠99 | │ | c | :Lbs/gal | mud weight Bentonite slu | | | |
| 16. Drilling additives used? ☐ Y | es 🛮 No | | d | l% Bento | | | | 50 |
| 10. Dinning auditives used: | CS ZINO | │ | e | | ³ volume added for any of the above | | | |
| Describe | | │ | 1 | f. How installed | | mie | | |
| 17. Source of water (attach analysis, if required | d): | │ | | | Tremie pum | _ | | |
| | • | | _ | . | | vity | | |
| | | J 🐰 🧱 😸 | / ^{6.} | Bentonite seal: | a. Bentonite gram | | | |
| T.D | or0.20 | . 🐰 🕷 | | | 3/8 in. \Box 1/2 in. Bentonite churton Hole Plug 0.5 ft ³ | nps her | | 32 |
| E. Bentonite seal, top ft. MSL | or | | | | al: Manufacturer, product name & | | _ | |
| F. Fine sand, top ft. MSL | ~** | ft. | / /" | | ai. Manufacturer, product harro to | ПСЭП | SIZA | |
| F. Fine sand, top ft. MSL | or | "\\ \ | | a b. Volume added | I ft ³ | | _ | |
| G. Filter pack, top ft. MSL | or2.50 | | 8. | | rial: Manufacturer, product name & | mes | h siz | ze |
| | — | | | a | Red FlintSand and Gravel | | | |
| H. Screen joint, top ft. MSL | or3.00 | n | | b. Volume added | | | _ | *l |
| | | | 9. | . Well casing: | Flush threaded PVC schedule | 40 | | 23 |
| I. Well bottom ft. MSL | or13.50 | ft. | | - | Flush threaded PVC schedule | | | 24 |
| | | | | | | her | | 2:3 |
| J. Filter pack, bottom ft. MSL | or <u>13.50</u> | n | 10. | Screen material: | PVC Screen | | | 388. |
| | | | | a. Screen Type: | Factory | cut | \boxtimes | 11 |
| K. Borehole, bottom ft. MSL | or <u>13.50</u> | ft | | | Continuous | | | 5.57.7% |
| | | ~ <i>\/////</i> | | | Ot | her | | 233 |
| L. Borehole, diameter 4.50 in. | | <u> </u> | | b. Manufacturer | · ——— | | | _ |
| | | | | c. Slot size: | | _ | | in. |
| M. O.D. well casing in. | | | ,, | d. Slotted length | | | | ft. |
| N. I.D. well casing 2.00 in. | | | 11, | . Dackilli material | • • • | one her | | 14 |
| N. I.D. well casing 2.00 in. | | | | | 0 | пëI | | world took |
| I hereby certify that the information on this for | n is true and co | meet to the best of my b | nowledge | | | | | |
| Signature | | T' | TO MIRORE. | | | | | Т-1- |
| Jacob Dean | | FITTE AECOM | | | | | | Tel: |

| State of Wisconsin | | | | | | | | |
|---|----------------------|---|------------------|---------------------------|---|------------|-------------|--------------|
| Department of Natural Resources Route To: | | Wastewater | | agement \square | MONITORING WELL CONST Form 4400-113A Rev. | | | ION |
| Facility/Project Name | | n/Redevelopment 🛛 | Other 🗌 | | Well Name | | | |
| | Local Glid Lo | ftS | A | □ <u>E.</u> | 1 MW-35 | | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Or | — ^{n.} □ S. —— igin □ (estimated: | n. □) or W | □ W. ell Location ⊠ | Wis. Unique Well No. DNR We | 11 Nu | mh | <u></u> |
| 60615404 | Lat. | | g | | | | | • |
| Facility ID | | | | | Date Well Installed | | | |
| | St. Plane | ion of Waste/Source | | ft. E. S/C/N | 03/04/2020 | | | |
| Type of Well | 7 | | | □E | Well Installed By: (Person's Nam | e and | d Fir | m) |
| V- | | 1/4 of Sec | | | Tony Kapug | i | | • |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgra | Vell Relative to Waste/Se adient s □ Sid ngradient n □ No | degradient | Gov. Lot Number | Onsite Environ | mer | ntal | |
| | • | | | . Cap and lock? | ⊠ ' | Yes | 一 | No No |
| | | | 2. | . Protective cover p | pipe: | | | |
| B. Well casing, top elevation | ft. MSI | , ' - | ' > / | a. Inside diameter | T. | | 4.0 | <u>0</u> in. |
| C. Land surface elevation | ft. MSI | ا ا ا ا | | b. Length: | | | <u>5.0</u> | <u>0</u> ft. |
| D. Surface seal, bottom ft. MS | Iow ∃ | | 5.25 2 | c. Material: | | eel | | 04 |
| | | | A STATE OF | | | her | | |
| 12. USCS classification of soil near screen: | | THE THE THE PARTY OF THE PARTY | - | d. Additional pro | | | \boxtimes | No |
| | SW SP CL CH | | | If yes, describe | : | | | |
| Bedrock □ | L M CH L | ˈ│ Ì ▓ 隊 | 3. | Surface seal: | Bentor | | | |
| 13. Sieve analysis attached? | es ⊠No | | | | Concr Ot | | _ | |
| · | | ft. | | Motorial hot-room | well casing and protective pipe: | ler | ш | k |
| | ary □ 50 | │ | g 4 . | . Material detween | well casing and protective pipe: Bentor | ita | ⋈ | 2.0 |
| Hollow Stem Au | ger⊠41 her□ | │ | Š. | | | her | _ | 30 |
| | | | | | | | | |
| 15. Drilling fluid used: Water □ 0 2 | Air □01 | | 5. | Annular space sea | | | | |
| Drilling Mud | | │ | | | nud weight Bentonite-sand slu nud weight Bentonite slu | | | |
| | | │ | g c | :1.0s/gai fi I% Bentor | - | | | |
| 16. Drilling additives used? | es ⊠No | │ | g u | | volume added for any of the above | | ш | 50 |
| | | | | f. How installed | · · | , nie ∣ | П | 0.1 |
| Describe | | . 👹 🖁 | , | 22011 1110111111 | Tremie pum | | | |
| 17. Source of water (attach analysis, if require | xd): | │ | ă | | Grav | | | |
| | | │ | 6 | Bentonite seal: | a. Bentonite granu | - | | |
| | | ∵ 👹 🕻 | × / × | | 3/8 in. □ 1/2 in. Bentonite ch | | | |
| E. Bentonite seal, top ft. MSI | or0.20 | f. 🐰 🖁 | | | | her | | ĬŦ |
| E. Dentolike seal, up | | | .7. | Fine sand materia | d: Manufacturer, product name & 1 | | | e |
| F. Fine sand, top ft. MSI | or | ft. | | a | | | | |
| | | | 8 // | b. Volume added | ft³ | | _ | |
| G. Filter pack, top ft. MSI | _ or2.50 | ft. | .8. | . Filter pack materi | ial: Manufacturer, product name & | mesl | h siz | ze |
| • • • | | | | a | Red FlintSand and Gravel | | _ | 111 |
| H. Screen joint, top ft. MSI | _ or3.00 | ft. | | b. Volume added | | | | |
| · | | | 9. | . Well casing: | Flush threaded PVC schedule | 40 | | 23 |
| I. Well bottom ft. MSI | or 13.50 | ft. | | - | Flush threaded PVC schedule | 80 | | 24 |
| | | | | | Oti | her | | 200 |
| J. Filter pack, bottom ft. MSI | or 13.50 | ft. | 10. | Screen material: | PVC Screen | | | 388 |
| | | | | a. Screen Type: | Factory | cut | \boxtimes | 11 |
| K. Borehole, bottom ft. MSI | _ or13.50 | ft | | | Continuous s | lot | | 01 |
| | | ~ <i>\\\\\</i> | | | Oti | 1er | | 331 |
| L. Borehole, diameter 4.50 in. | | V ////// | 8 | b. Manufacturer | | | | |
| | | | | c. Slot size: | | _ | | in. |
| M. O.D. well casing in. | | | | d. Slotted length: | | _ | | ft. |
| | | | `11. | Backfill material | • • | ne | | |
| N. I.D. well casingin. | | | | | Ot | her | X | 183 |
| | | | | | | | | |
| I hereby certify that the information on this for | m is true and co | | nowledge. | | | | | |
| Signature Jacob Dean | | Firm AECOM | | | | | | Tel: |
| 1 | | I | | | | | | For. |

| State of Wisconsin | | | | | | | | |
|---|------------------|--|-----------------|---|--|-------|-------------|---|
| Department of Natural Resources Route To: | | Vastewater | | agement \square | MONITORING WELL CONST Form 4400-113A Rev. | | | ION |
| Facility/Project Name | Local Grid Lo | /Redevelopment 🛛 | Other | | Well Name | 1-30 | | |
| • | Local Gild Lo | ft. □ S | A | □ <u>E.</u> | 1 MW-39 | | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Or | igin ☐ (estimated: | | □ W. ell Location ⊠ | Wis. Unique Well No. DNR We | II Nu | ımb | |
| 60615404 | Lat° | | | | | | | |
| Facility ID | | _ | | | Data Wall Installed | | | |
| • | St. Plane | ion of Waste/Source | | ft. E. S/C/N | 03/04/2020 | | | |
| Type of Well | 1 | | | DE | Well Installed By: (Person's Nam | e and | d Fir | m) |
| | | 1/4 of Sec /ell Relative to Waste/So | | | Tony Kapug | i | | |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgra | | legradient | Gov. Lot Number | Onsite Enviror | mer | ıtal | <u> </u> |
| | • | , | | Cap and lock? | | Yes | | No |
| 11. | | | 2. | Protective cover | pipe: | | | |
| B. Well casing, top elevation | ft. MSL | , - | ·// | a. Inside diamete | r: | | 4.0 | 0 in. |
| C. Land surface elevation | ft. MSL | ا الـ | | b. Length: | | | | <u>0</u> ft. |
| D. Surface seal, bottom ft. MSI | .or t | | ALCONO. | c. Material: | | eel | | 04 |
| | | | | d Additional man | | her | | NT- |
| 12. USCS classification of soil near screen: | 57 C CD C | | | d. Additional pro | e: | | | NO |
| | W□ SP□ L⊠ CH□ | | | n yes, describ | Bentor | | | 2.0 |
| Bedrock □ | | | \ \3. | Surface seal: | Concr | | | |
| 13. Sieve analysis attached? | es 🛮 No | | | | Ot | | _ | |
| * | rv □50 | ft. \ | _4 | Material hetween | well casing and protective pipe: | ıçı ı | _ | ******* |
| Hollow Stem Aug | • | │ | | | Bentor | rite | \boxtimes | 3 0 |
| 1 | er 🗆 | | | | | her | _ | 388 |
| | | │ | 5 | Annular space se | al: a. Granular/Chipped Bentor | rita | П | 2 2 |
| 15. Drilling fluid used: Water □ 0 2 | ir □01 | | h | • | mud weight Bentonite-sand slu | | | |
| Drilling Mud □ 0 3 No | ne ⊠99 | | Č | | nud weight Bentonite slu | | | |
| | | | d | l% Bento | - | | | |
| 16. Drilling additives used? □ Y | es 🛛 No | | e | Ft | volume added for any of the above | | | |
| | | │ | f | . How installed | l: Tren | nie | | 01 |
| Describe | | | | | Tremie pump | ed | | 02 |
| 17. Source of water (attach analysis, if require | 1): | | | | Grav | rity | | 08 |
| | | | _. 6. | Bentonite seal: | a. Bentonite granu | les ' | | 33 |
| | | [−] | | | 13/8 in. □ 1/2 in. Bentonite ch | ips | \boxtimes | 32 |
| E. Bentonite seal, top ft. MSL | or0.20 | | | | | her | | 737 |
| | | ft. | / _7. | Fine sand materia | al: Manufacturer, product name & 1 | nesh | size | 3 |
| F. Fine sand, top ft. MSL | or | ft. \ \ 💥 💥 | // | a | | | _ | |
| | | <u> </u> | / / | b. Volume added | | | | |
| G. Filter pack, top ft. MSL | or <u>2.50</u> | ft. \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | / 8. | - | ial: Manufacturer, product name & | mesh | n siz | |
| | 2.00 | | | *** | Red FlintSand and Gravel | | _ | 11 |
| H. Screen joint, top ft. MSL | or3.00 | ft. | 1 / | b. Volume added | | | | |
| | 12.60 | | 9. | Well casing: | Flush threaded PVC schedule | | | 23 |
| I. Well bottom ft. MSL | or13.50 | | | | Flush threaded PVC schedule | | | 24 |
| | 12 50 | ft. | | | | her | Ш | 200 |
| J. Filter pack, bottom ft, MSL | or13.50 | tt. | 10. | Screen material: | | — | _ | 1111 |
| | 12 50 | | | a. Screen Type: | Factory | | | 11 |
| K. Borehole, bottom ft. MSL | or | n | | | Continuous s | | | 5.57.7 |
| L. Borehole, diameter 4.50 in. | | | | h Man-6-at | Ot | 1er | Ш | |
| L. Borehole, diameter 4.50 in. | | | | b. Manufacturerc. Slot size: | | | | in. |
| M OD Il cosino in | | | | d. Slotted length | | | | — m. — ft. |
| M. O.D. well casing in. | | | \ 11 | | | ne | | |
| N. I.D. well casing 2.00 in. | | | 11. | , PROPERTY THREE IST | • • | her | |) () () () () () () () () () (|
| N. I.D. well casing in. | | | | | | | | Anning their |
| I hereby certify that the information on this for | n is true and co | meet to the best of my b | nowledge | | | | | |
| Signature | | TC: | | | | | | Tel: |
| Jacob Dean | | AECOM | | | | | | I el: |

| State of Wisconsin | | | | | | | | |
|---|----------------------|---|------------------|---------------------------|---|------------------|-----------|---------|
| Department of Natural Resources Route To: | | Wastewater | | agement \square | MONITORING WELL CONST Form 4400-113A Rev. 7 | | TIO | N |
| Facility/Project Name | | n/Redevelopment 🛛 | Other | | Well Name | - 7 0 | | |
| • • | Local Glid Lo | ftS | A | □ <u>E.</u> | 1 MW-43 | | | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring No. | Local Grid Or | igin ☐ S. —— igin ☐ (estimated: | | □ W. ell Location | Wis. Unique Well No. DNR Wel | l Nur | nber | _ |
| 60615404 | Lat. | | g | | | | 1041 | |
| Facility ID | | | • | | Date Well Installed | | | _ |
| | St. Plane | ion of Waste/Source | | ft. E. S/C/N | 03/03/2020 | | | |
| Type of Well | 7 | | | □E | Well Installed By: (Person's Name | and | Firm) |) |
| V- | | 1/4 of Sec | | | Tony Kapugi | | , | |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgra | Vell Relative to Waste/Se adient s □ Sid ngradient n □ No | degradient | Gov. Lot Number | Onsite Environ | ment | al | _ |
| | • | | | . Cap and lock? | <u> </u> | 7es □ | N | =- 0 |
| 11.7 | | | 2. | . Protective cover p | pipe: | | | |
| B. Well casing, top elevation | ft. MSI | ' ' | ' > / | a. Inside diameter | • | | 4.0 | in. |
| C. Land surface elevation | ft. MSI | | | b. Length: | | | 5.0 | ſt. |
| D. Surface seal, bottom ft. MS | Iow ∃ | | B.25 .2 | c. Material: | | æl ⊠ | | 4 |
| · | | | A CONTRACT | | | er 🗆 | | |
| 12. USCS classification of soil near screen: | | | - THE THE THE | d. Additional prot | | | 1 No | 0 |
| | SW SP CL CH | | | If yes, describe | : | | | _ |
| Bedrock □ | L M CH L | '│ `````` ``` | 3. | Surface seal: | Benton | | | |
| 13. Sieve analysis attached? | es ⊠No | │ | | | Concre Oth | | | _ |
| · · | | ft. | | Motorial hot-room | well casing and protective pipe: | er L | J | |
| | ary □ 50 | │ | g * . | . Material detween | well casing and protective pipe: Benton | ita K | 7 2 (| ^ |
| Hollow Stem Au | ger⊠41 her□ | | Š. | | | er [| - 100 | |
| | | | | | | _ | | |
| 15. Drilling fluid used: Water □ 0 2 | Air □01 | │ | 5. | . Annular space sea | | | | |
| Drilling Mud □ 03 No | | │ | | | nud weight Bentonite-sand slur nud weight Bentonite slur | | | |
| | | │ | g u | :1.0s/gai ti I% Bentor | | | | |
| 16. Drilling additives used? □ 3 | es ⊠ No | | y u | | volume added for any of the above | աւ ∟ | J 2(| U |
| | | | | | • | nie 🗆 | 1 A 1 | 1 |
| Describe | | . 👹 🖁 | , - | 22017 1110011110 | Tremie pump | | | |
| 17. Source of water (attach analysis, if require | xd): | │ | ă | | Gravi | | | |
| | | │ | 6 | . Bentonite seal: | a. Bentonite granul | - | | |
| | | ∵ 🞇 🦹 | × / × | | 3/8 in. □ 1/2 in. Bentonite chi | | | |
| E. Bentonite seal, top ft. MSI | or0.20 | п. 👹 🖁 | | | II-1. MI . 0 C 03 | er 🗆 | | |
| E. Dentolike seal, top | | | | Fine sand materia | l: Manufacturer, product name & n | | | |
| F. Fine sand, top ft. MSI | or | ft. | | a | • | | | |
| | | | 8 // | b. Volume added | ft ³ | | - | |
| G. Filter pack, top ft. MSI | _ or2.50 | ft. | .8. | . Filter pack materi | al: Manufacturer, product name & | nesh | size | |
| • • • | | | | a | Red FlintSand and Gravel | | ; ; ; ; | 3 |
| H. Screen joint, top ft. MSI | or3.00 | ft. | | b. Volume added | 3 ft ³ | | | |
| · | | | 9. | . Well casing: | Flush threaded PVC schedule | 10 E | 23 | 3 |
| I. Well bottom ft. MSI | or 13.50 | ft. | | - | Flush threaded PVC schedule | 30 E | 24 | 4 |
| | | | | | Oth | er 🗆 | | 3 |
| J. Filter pack, bottom ft. MSI | or 13.50 | n | 10. | Screen material: | PVC Screen | | 33 | |
| | | | | a. Screen Type: | Factory of | ut D | 11 | 1 |
| K. Borehole, bottom ft. MSI | _ or13.50 | ft | | | Continuous si | ot [|] 01 | 1 |
| | | ~ <i>\\\\\</i> | | | Oth | er [| J 🕮 | 11 |
| L. Borehole, diameter 4.50 in. | | V ////// | 8 | b. Manufacturer | | | | |
| | | | | c. Slot size: | | | | in. |
| M. O.D. well casing in. | | | | d. Slotted length: | | | | |
| | | | `11. | Backfill material | | ne 🗆 | | |
| N. I.D. well casing 2.00 in. | | | | | Oth | er 🗵 | 3 <u></u> | in the |
| | | | | | | | | |
| I hereby certify that the information on this for | m is true and co | T : | nowledge. | | | | | _ |
| Signature Qacob Dean | | Firm AECOM | | | | | | el: |
| 7 | | I | | | | | 17/ | OV. |

| State of Wisconsin | | | | | |
|--|--|---|---|-----------|----------------------|
| Department of Natural Resources Route To: | | Management | MONITORING WELL CONSTITUTE Form 4400-113A Rev. 7-9 | | TION |
| Facility/Project Name | Remediation/Redevelopment Other Local Grid Location of Well | | Well Name | | |
| CN Manitowoc, 1110 Buffalo Street | d N. | ⊕ E. | 3 MW-11 | | |
| Facility License, Permit or Monitoring No. | ft. □ N | or Well Location 🛛 | Wis. Unique Well No. DNR Well | Num | ber |
| 60615404 | Lat ' " Long | <u> </u> | _ | | |
| Facility ID | St. Plane ft. N, | | Date Well Installed | | |
| | Section Location of Waste/Source | | 03/03/2020 | | |
| Type of Well | 1/4 of 1/4 of Sec, T | N. R 🗆 E | Well Installed By: (Person's Name | and | Firm) |
| Distance Com Wortel | Location of Well Relative to Waste/Source | Gov. Lot Number | | | |
| Distance from Waste/ Source ft. Enf. Stds. Apply | u □ Upgradient s □ Sidegradie d □ Downgradient n □ Not Known | n — | Onsite Environmental | | |
| A. Protective pipe, top elevation | ft. MSL | 1. Cap and lock? | ⊠ Ye | 3 🗆 | No |
| B. Well casing, top elevation | n, MSL | 2. Protective cover page 1. Inside diameter | | 4 | l.0 in. |
| - | 0.1401 | b. Length: | - | | i.0 ft. |
| C. Land surface elevation | ft. MSL | c. Material: | Steel | | |
| D. Surface seal, bottom ft. MSL | or ft. | | Other | | 300000 |
| 12. USCS classification of soil near screen: | | d. Additional pro | tection? | s 🛛 | No |
| | w □ sp □ \ \\ \\ \\ | If yes, describe | e: | _ | |
| | L⊠ CH□ Walkar / 1 | 3. Surface seal: | Bentonite | | 30 |
| Bedrock □ | | 5. Surface sear: | Concrete | | GOODGOO. |
| 13. Sieve analysis attached? | W □ SP □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | \ | Other | | 00000000 50000000 |
| 1 | ry □ 5 0 👹 👹 | `4. Material between | well casing and protective pipe: | | |
| Hollow Stem Aug | er 🛮 4 1 | | Sand Bentonite | | 200000000 |
| Oth | er 🗆 💥 👹 | | | | |
| 15. Drilling fluid used: Water □ 0 2 A | ir 🗆 0.1 | - | al: a. Granular/Chipped Bentonite | | |
| Drilling Mud 03 Nor | □ 01 ne 図 9 9 ■ ■ ■ | | nud weight Bentonite-sand slurry | | |
| | | d% Benton | nud weight Bentonite slurry nite Bentonite-cement grou | | |
| 16. Drilling additives used? ✓ Ye | es □No 🖁 🧱 | | volume added for any of the above | , Ш | 30 |
| | | f. How installed | | . 🗆 | 01 |
| Describe No | 8 8 | | Tremie pumped | . 🗆 | 02 |
| 17. Source of water (attach analysis, if require | ed): | | Gravity | | |
| | | 6. Bentonite seal: | a. Bentonite granules | ; | 3 3 |
| | | / b. □ 1/4 in. ⊠ | 3/8 in. □ 1/2 in. Bentonite chips | × | 3 2 |
| E. Bentonite seal, top ft. MSL | | | orton Hole Plug 0.5 ft ³ Other | | |
| | X X X X | 7. Fine sand materia | al: Manufacturer, product name & m | esh | size |
| F. Fine sand, top ft. MSL | or ft. or ft. or 3.00 ft. | a | | _ | 2000000 |
| | 2.50 | b. Volume added | | | |
| G. Filter pack, top ft. MSL | or | _ | ial: Manufacturer, product name & | nesh | 1 Size |
| TI Comment into the Comment of the C | or 3.00 ft. | *** | Red Flint Sand and Gravel 2.75 ft ³ | — | 30000000 |
| H. Screen joint, top ft. MSL | or n. | b. Volume added | Flush threaded PVC schedule 40 | | 2.2 |
| I. Well bottom ft. MSL | or13.50 ft | 9. Well casing: | Flush threaded PVC schedule 80 | | |
| i. Wen bottom | | | Other | | -000000000 |
| J. Filter pack, bottom ft. MSL | or13.50 ft. | 10. Screen material: | | | 2000000 |
| 14 1122 | | a. Screen Type: | Factory cut | - : 🖂 | 1 1 |
| K. Borehole, bottom ft. MSL | or13.50 ft. \ | | Continuous slot | | |
| | | | Other | | 3000000 |
| L. Borehole, diameter4.50 in. | | b. Manufacturer | | | |
| | | c. Slot size: | - | | in, |
| M. O.D. well casing in. | | d. Slotted length | | | ft. |
| 2.00 | | 11. Backfill material | • • | | 200000000 |
| N. I.D. well casing 2.00 in. | | | Other | Z | 3000000 |
| Thomshy contify that the information on this Co | man is two and assument to the best of and | lados | | | |
| I hereby certify that the information on this fo Signature | T25 | reage. | | | |
| Jacob Dean | AECOM | | | | Tel: Fax: |
| <i>(</i> / | 1 | | | | |

| State of Wisconsin Department of Natural Resources | | | | | | | | |
|--|------------------|--|-------------|-----------------------------|--|------------|------|----------------------------------|
| Route To: | | Vastewater □ /Redevelopment ⊠ | Waste Man | agement \square | MONITORING WELL CONS Form 4400-113A Rev. | | | IION |
| Facility/Project Name | Local Grid Lo | | Otner 🗆 | | Well Name | | | |
| CN Manitowoc, 1110 Buffalo Street | | ftS, | A | □ E. □ W. | 3 MW-14 | | | |
| Facility License, Permit or Monitoring No. | Local Grid Ori | igin ☐ (estimated: [|) or W | □ w. ell Location 🏻 | Wis. Unique Well No. DNR We | 11 N | umt | er |
| 60615404 | Lat | | | | | | | |
| Facility ID | 1 | | | | Date Well Installed | | | |
| • | | ft. N, on of Waste/Source | | π.Ε. 5/C/N | 03/03/2020 | | | |
| Type of Well | 1 | | | □E | Well Installed By: (Person's Na | me a | nd l | Firm) |
| | | 1/4 of Sec ell Relative to Waste/S | | N, R □ W Gov. Lot Number | Tony Kapugi | | | |
| Distance from Waste/ Source Enf. Stds. Apply | u □ Upgra | | egradient | Gov. Lot Number | Onsite Environment | al | | |
| A. Protective pipe, top elevation | • | | | Cap and lock? | × × | Yes | | No |
| | | | 2. | Protective cover p | pipe: | | | |
| B. Well casing, top elevation | ft. M S L | |) / | a. Inside diameter | • | _ | 4.0 | 0 in. |
| C. Land surface elevation | ft. MSL | | | b. Length: | | _ | | <u>0</u> ft. |
| D. Surface seal, bottom ft. MSI | or fl | | ASSESSED A | c. Material: | | eel | | 04 |
| | | | | | | _ | | 0000000 |
| 12. USCS classification of soil near screen: | | | ***** | d. Additional prot | | Y es | × | No |
| | W□ SP□ L⊠ CH□ | | | ii yes, describe | : | | - | • • |
| Bedrock | LA CII | | \ \3. | Surface seal: | Bentor | | _ | 30 |
| 13. Sieve analysis attached? | es 🛮 No | | | | Concr | | _ | 01 |
| · | | ft. | \ | Material heteroen | well casing and protective pipe: | TĈI | ш | 20000007 |
| 14. Drilling method used: Rota Hollow Stem Aug | ry □50 | | ٦, | . Iviateriai detween | Bentor | nite | X | 3.0 |
| | er 🗆 | | | | | her | | 00000000 00000000 30000000 |
| | | | | A | | - | | |
| 15. Drilling fluid used: Water □ 0 2 A | ir □01 | | | - | al: a. Granular/Chipped Benton nud weightBentonite-sand slu | | | |
| Drilling Mud □ 0 3 Nor | ne ⊠99 | | | | and weight Bentonite-said studies and weight Bentonite slu | | | |
| | | | | l% Benton | | | | |
| 16. Drilling additives used? ✓ Y | es □No | | | | volume added for any of the above | | _ | |
| NT- | | | f | | | nie | | 01 |
| Describe No | | | | | Tremie pump | ped | | 02 |
| 17. Source of water (attach analysis, if requir | ed): | | | | Grav | rity | | 08 |
| | | | 6. | Bentonite seal: | a. Bentonite granu | ıles | | 33 |
| | | ⁻ | / | b. □ 1/4 in. ⊠ | 3/8 in. □ 1/2 in. Bentonite ch | ips | X | 32 |
| E. Bentonite seal, top ft. MSL | or0.20 | ft. 🔉 🔯 | | c. Hallibur | ton Hole Plug 0.75 ft ³ Ot | her | | 333333 |
| - | | ft. | .7, | Fine sand materia | l: Manufacturer, product name & | t me | sh s | ize |
| F. Fine sand, top ft. MSL | or | ft. \ \ 💥 💥 | | 8 | | | _ | 10000000 10000000 |
| | | | | b. Volume added | | | | |
| G. Filter pack, top ft. MSL | or <u>2.50</u> | #. \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | / ,8. | - | al: Manufacturer, product name | & m | esh | size |
| | | | | aR | ed Flint Sand and Gravel | | _ | 3000000 |
| H. Screen joint, top ft. MSL | or <u>3.00</u> | ft | | b. Volume added | | | | |
| | 12.50 | | / 9. | Well casing: | Flush threaded PVC schedule | | | 23 |
| I. Well bottom ft. MSL | or13.50 | ft. | | | Flush threaded PVC schedule | | | 24 |
| | 12.50 | | | | | her | | 30000000 |
| J. Filter pack, bottom ft. MSL | or13.50 | ft. | 10. | Screen material: | | | | 00000000 |
| | 12.50 | | | a. Screen Type: | Factory | | | 11 |
| K. Borehole, bottom ft. MSL | or13.50 | ft | | | Continuous s | | | 300000000 |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | 1 26 6 4 | | her | Ц | 3333333 |
| L. Borehole, diameter4.50 in. | | | | | | | | • |
| | | | | c. Slot size: | | _ | | in. ft. |
| M. O.D. well casing in. | | | \ 11 | d. Slotted length: | | one | | |
| N. I.D. well casing 2.00 in. | | | 11, | Parenn marchan | • • | one her | | 14 |
| N. I.D. well casing in. | | | | | | | | 00000000 |
| I hereby certify that the information on this fo | rm is true and o | correct to the hest of my | v knowledge | | | | | |
| Signature | 1- | 75 | , m.rougo. | • | | | | Те1- |
| Jacob Dean | | AECOM | | | | | | Tel: |

| State of Wisconsin | | | | | | |
|--|--------------------------------------|---|-------------------------|--|----------------|--------------------|
| Department of Natural Resources Route To: | Watershed/Wastewater | | nagement \square | MONITORING WELL CONST | | TION |
| Facility/Project Name | Remediation/Redevelor | | | Form 4400-113A Rev. 7- Well Name | 7 8 | |
| • | t. | | □ E. □ W. | | | |
| CN Manitowoc, 1110 Buffalo Street Facility License, Permit or Monitoring No. | Local Grid Origin | $S_{\cdot} = \frac{\pi_{\cdot}}{\text{(estimated: } \square \text{) or } W}$ | □ W. /ell Location 図 | 3 MW-20 Wis. Unique Well No. DNR Well | Nur | her |
| 60615404 | Lat | | | Wisi omque Wen ite. Brite Wen | 2 1 44212 | |
| Facility ID | = | | | Date Well Installed | | |
| • | St. Plane Section Location of Was | _ ft. N, | _ nt. E. S/C/N | 03/03/2020 | | |
| Type of Well | 7 | | □ E | Well Installed By: (Person's Name | and | Firm) |
| | Location of Well Relativ | of Sec, T | N, R. W | Tony Kapugi | | |
| Distance from Waste/ Source Enf. Stds. Apply | u □ Upgradient d □ Downgradient | s 🗆 Sidegradient | | Onsite Environmental | | |
| A. Protective pipe, top elevation | | | . Cap and lock? | ⊠ Ye | s 🗆 | No |
| | | 2 | . Protective cover p | pipe: | | |
| B. Well casing, top elevation | ft. MSL | | a. Inside diameter | - | | 4.0 in. |
| C. Land surface elevation | ft. MSL 🔪 | | b. Length: | <u> </u> | | 5.0 ft. |
| D. Surface seal, bottom ft. MSI | or ft | | c. Material: | | | 04 |
| 12. USCS classification of soil near screen: | | | d. Additional prot | Othe | | |
| | W□ SP□ | | | s: | 3 🖂 | NU |
| | W□ SP□ L⊠ CH□ | | • . | Bentonit | _ | 3 0 |
| Bedrock □ | | ₩ ₩ \ `3 | . Surface seal: | Concrete | | |
| 13. Sieve analysis attached? | es ⊠ No | | | Othe | | baladada). |
| 14. Drilling method used: Rota | ry □ 5 0 | ₩ ₩ \4 | . Material between | well casing and protective pipe: | | |
| Hollow Stem Aug | • | | | Bentonit | × | 3 0 |
| Oth | er 🗆 | | | Sand Othe | r 🗆 | 0000000 3000000 |
| | | 5 1 6 | . Annular space sea | al: a. Granular/Chipped Bentonit | e 🗆 | 3 3 |
| | .ir □01 | ₩ ₩ 1 | - | nud weight Bentonite-sand slurr | | |
| Drilling Mud □ 0 3 No | ne ⊠99 | X X X | | nud weight Bentonite slurr | | |
| 16. Drilling additives used? ⊠ Y | es 🗆 No | ₩ ₩ ′ | d% Bentor | | ıt □ | 50 |
| To. Dinning Madrice was asset. | | ₩₩ ' | | volume added for any of the above | _ | |
| Describe No | | | f. How installed | | _ | |
| 17. Source of water (attach analysis, if require | red): | | | Tremie pumpe Gravit | | |
| | | | . Bentonite seal: | • | | |
| | | | b. □ 1/4 in. ⊠: | a. Bentonite granule 3/8 in, □ 1/2 in, Bentonite chip | | |
| E. Bentonite seal, top ft. MSL | or0.20 ft. | | | rton Hole Plug 0.5 ft ³ Othe | | 20000000 |
| E. Bentonic sear, wp | 101 10. | | | il: Manufacturer, product name & r | | |
| F. Fine sand, top ft. MSL | or ft. | 8 | a | , . | | 5000000 |
| | | | b. Volume added | ft³ | _ | |
| G. Filter pack, top ft. MSL | or2.50 ft. \ | 8, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | . Filter pack materi | ial: Manufacturer, product name & | mesl | n size |
| - | | | aR | ted Flint Sand and Gravel | | 5000000 |
| H. Screen joint, top ft. MSL | or3.00 ft | | b. Volume added | ft ³ | | |
| | | | . Well casing: | Flush threaded PVC schedule 4 | 0 🗆 | 23 |
| I. Well bottom ft. MSL | or 13.50 ft. | 10 | | Flush threaded PVC schedule 8 | | 20002000 |
| | 12.50 | | | Othe | r 🗆 | |
| J. Filter pack, bottom ft. MSL | or 13.50 ft. | | . Screen material: | | _ | 0000000 |
| | 12.50 | | a. Screen Type: | Factory cu | | |
| K. Borehole, bottom ft. MSL | or 15.50 ft. | | | Continuous slo | | 555555555 |
| 1 Daniel 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | h Manusfaatanan | Othe | t⊔ | 100000 |
| L. Borehole, diameter4.50 in. | | | c. Slot size: | | | in. |
| M O D yyall agging in | | | d. Slotted length: | · | | ft. |
| M. O.D. well casing in. | | \ ₁₁ | | | | 14 |
| N. I.D. well casing in, | | | | Othe | | 200000000 |
| | | | | | | |
| I hereby certify that the information on this for | orm is true and correct to t | the best of my knowledge |). | | | |
| Signature | T2 | | | | | Tel: |
| Jacob Dean | | = | | | | For |

| State of Wisconsin Department of Natural Resources | | | | | | | | |
|--|------------------|---|---|------------------------|---|-----------|---------------|----------------------|
| Route To: | | Vastewater | Waste Man | agement \square | MONITORING WELL CONS Form 4400-113A Rev. | | | ION |
| Facility/Project Name | | /Redevelopment 🛛 | Otner 🗆 | | Well Name | /-70 | | |
| CN Manitowoc, 1110 Buffalo Street | Local Gra Lo | ftS, | A | □ E. □ W. | 3 MW-45 | | | |
| Facility License, Permit or Monitoring No. | Local Grid Or | igin ☐ (estimated: [| | □ W. ell Location ⊠ | Wis. Unique Well No. DNR We | 11 Nı | uml | er |
| 60615404 | Lat° | | · | | | | | |
| Facility ID | 1 | | | | Date Well Installed | | | |
| • | | ft. N, ion of Waste/Source | | . H. E. S/C/N | 03/02/2020 | | | |
| Type of Well | | | | □ E | Well Installed By: (Person's Nar | me a | md I | Firm) |
| | | 1/4 of Sec | | | Tony Kapugi | | | |
| Distance from Waste/ Source Enf. Stds. Apply | u □ Upgra | 'ell Relative to Waste/S dient s ☐ Sid gradient n ☐ Not | egradient | Gov. Lot Number | Onsite Environment | a.1 | | |
| A. Protective pipe, top elevation | • | | | Cap and lock? | ⊠ ' | Yes | | No |
| | | | 2. | Protective cover p | pipe: | | | |
| B. Well casing, top elevation | ft. M S L | |) / | a. Inside diameter | : | _ | <u>4.</u> | 0 in. |
| C. Land surface elevation | ft. MSL | | | b. Length: | | | | <u>0</u> ft. |
| D. Surface seal, bottom ft. MSI | or fi | | 1521521 | c. Material: | | eel | | 04 |
| , , | | | | | Oti | | | 0000000 |
| 12. USCS classification of soil near screen: | | | ****** | d. Additional prot | | Y es | × | No |
| | W□ SP□ L⊠ CH□ | | | If yes, describe | : | | - | • • |
| Bedrock | LA CII | | \ \3. | Surface seal: | Benton | | | 30 |
| 13. Sieve analysis attached? | es 🛮 No | | | | Concr Otl | | | 0 1 |
| · | | ft. | \ | Material heteroen | well casing and protective pipe: | IĈI | ш | 20000007 |
| 14. Drilling method used: Rota Hollow Stem Aug | ry □50 | | ٦, | . Iviateriai detween | Benton | rite | X | 3.0 |
| | er 🗆 | │ | | | | her | | 20000000 20000000 |
| | | │ | | A | | | | |
| 15. Drilling fluid used: Water □ 0 2 A | ir □01 | │ | | - | al: a. Granular/Chipped Benton nud weight Bentonite-sand slu | | | |
| Drilling Mud □ 0 3 Nor | ne ⊠99 | │ | | | nud weight Bentomte-sand stu | | | |
| | | │ | | l% Benton | | | | |
| 16. Drilling additives used? ✓ Y | es □No | | | | volume added for any of the above | | _ | |
| | | │ | f | | | | | 01 |
| Describe No | | │ | | | Tremie pump | ed | | 02 |
| 17. Source of water (attach analysis, if requir | ed): | │ | | | Grav | | | |
| | | │ | 6. | Bentonite seal: | a. Bentonite granu | les | | 3 3 |
| | | - | / | b. □ 1/4 in. ⊠3 | • | | | |
| E. Bentonite seal, top ft. MSL | or0.20 | | | c. Black I | Hills Bentonite 0.5 ft ³ Otl | her | | 3333333 |
| · • | | ft. | .7, | Fine sand materia | l: Manufacturer, product name & | : me | sh s | ize |
| F. Fine sand, top ft. MSL | or | ft. | | 8 | | | _ | 50000000 50000000 |
| | | | / / | b. Volume added | ft³ | | | |
| G. Filter pack, top ft. MSL | or <u>2.50</u> | ft. \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | / 8. | • | ial: Manufacturer, product name | & m | esh | size |
| | | | | aR | ted Flint Sand and Gravel | | _ | 30000000 30000000 |
| H. Screen joint, top ft. MSL | or3.00 | ft. | | b. Volume added | | | | |
| | 440 | | / 9. | Well casing: | Flush threaded PVC schedule | 40 | | 23 |
| I. Well bottom ft. MSL | or13.50 | ft. | | | Flush threaded PVC schedule | | | 24 |
| | 44.50 | | | | | her | | 3333333 |
| J. Filter pack, bottom ft. MSL | or13.50 | ft. | 10. | Screen material: | PVC | | | 000000 |
| | 10.50 | | | a. Screen Type: | Factory | | | 11 |
| K. Borehole, bottom ft. MSL | or13.50 | ft | | | Continuous s | | | 300000000 |
| 4.50 | | | | | | her | | 3000000 |
| L. Borehole, diameter4.50 in. | | 4 | | | | | | |
| | | | | c. Slot size: | | _ | | in. ft. |
| M. O.D. well casing in. | | | \ | d. Slotted length: | | | $\overline{}$ | |
| N. I.D. well casing 2.00 in. | | | 11, | Dackilli material | • • | ne her | | 14 |
| N. I.D. well casing 2.00 in. | | | | | Ou | ıųl | Z | J00000000 |
| I hereby certify that the information on this fo | om is to and . | nament to the best of | u lmondada- | | | | — | |
| Signature | 1. | Di | y viiowieuge | • | | | — | |
| Jacob Dean | | AECOM | | | | | | Tel: |

| State of Wisconsin Department of Natural Resources | | | | | _ | | CONOM | | |
|--|-----------------|--|--|----------------------|----------------------------|---|-----------------------|--------------|------------|
| Doparation of National Resources | Route To: | | Wastewater | Waste Mar Other □ | nagement \square | MONITORING WELI Form 4400-113A | L CONSTR Rev. 7-98 | | TION |
| Facility/Project Name | | | n/Redevelopment 🛛 ocation of Well | Other 🗆 | | Well Name | - KCV. 7-30 | - | |
| CN Manitowoc, 1110 Buffal | I. Ct | Local Olla Lo | a □ N. | Д | □ E. | 2 1/1 | 17 5Q | | |
| Facility License, Permit or Monito | | Local Grid Or | $\underline{\hspace{0.5cm}}^{\text{n.}} \hspace{0.5cm} \underline{\hspace{0.5cm}} \hspace{0.5cm} S, \hspace{0.5cm} \underline{\hspace{0.5cm}}$ | | □ W. /ell Location ⊠ | 3 MV Wis. Unique Well No. I | V - 30 ONR Well N | Vum | ber |
| 60615404 | Ů | Lat | " I.on | g | | • | | | |
| Facility ID | | | ft. N, | | | Date Well Installed | | | |
| | | Section Locat | ion of Waste/Source | | _ IC. E. 3/C/N | 03/02/2 | | | |
| Type of Well | | | 1/4 of Sec | т | N, R, B N, R, B | Well Installed By: (Per: | son's Name | and | Firm) |
| | | | ell Relative to Waste/ | | Gov. Lot Number | Tony K | apugi | | |
| Distance from Waste/ Source Enf. S Apply | | u 🗆 Upgra | | degradient | | Onsite Envi | ronmental | | |
| A. Protective pipe, top elevation | | ft. MSL | | 1 | . Cap and lock? | | | ; | No |
| B. Well casing, top elevation | | ft. MSL | . | 2 | . Protective cover p | - | | 1 | Λ. |
| | | | | | a. Inside diameter | • | _ | | .0 in |
| C. Land surface elevation | | ft. MSL | · 🔪 📈 📗 | 200 | b. Length: c. Material: | | Steel | | |
| D. Surface seal, bottom | ft. MSL | or f | | | C. Iviacoriai, | | Other | | ***** |
| 12. USCS classification of soil no | ear screen: | | | | d. Additional prot | tection? | □ Yes | _ | |
| GP □ GM□ GC □ | | v □ SP □ | | X / | | : | | _ | |
| SM □ SC □ ML □ | | ∠⊠ CH□ | | \\. | | | Bentonite | | 30 |
| Bedrock □ | | | │ | § \ 3 | . Surface seal: | | Concrete | | 01 |
| 13. Sieve analysis attached? | □ Ye | s 🛮 No | │ | | | | Other | | 3000000 |
| _ | Rotar | • | │ | § `4, | . Material between | well casing and protective | | | |
| | w Stem Aug | | │ | Š Š | | Sand | Bentonite | | 200000000 |
| | Othe | r 🗆 💮 | │ | 8 | | | Other | | 300000 |
| 15. Drilling fluid used: Water | □ 0.2 A: | ir □01 | ft. \ | | | al: a. Granular/Chippe | | | |
| Drilling Mud | | | │ | | | nud weight Bentonitenud weight Bent | | | |
| | | | │ | u | i Kos/gai ii I% Bentor | | | | |
| 16. Drilling additives used? | ⊠ Ye | s 🗆 No | │ | u | | volume added for any of | _ | ш | 30 |
| | 3 T. | | │ | × | f. How installed | • | Tremie | | 01 |
| Describe | No | • | │ | 8 | | Tren | nie pumped | | 02 |
| 17. Source of water (attach analy | sis, if require | ed): | | 8 | | | Gravity | | 08 |
| | | | ft. \ | § _6 | . Bentonite seal: | a. Benton | ite granules | | 3 3 |
| | | | _ | 8 / | b. □ 1/4 in. ⊠ | 3/8 in. □ 1/2 in. Bent | tonite chips | \boxtimes | 5555555555 |
| E. Bentonite seal, top | ft. MSL | or0.20 | | | | Hills Bentonite 0.5 ft ³ | | | 300000 |
| | | | ft. | § / / ⁷ | . Fine sand materia | l: Manufacturer, product | i name & me | esh : | size |
| F. Fine sand, top | ft. MSL | or | ft. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | a | ft³ | | _ | 3000000 |
| C Filter and the | 0.3401 | or2.50 | | ∜∕. | b. Volume added | | | | : |
| G. Filter pack, top | ft. MSL | or | " | / /° | | al: Manufacturer, producted Flint Sand and Gravel | | пезп | SIZE |
| H. Screen joint, top | ft. MSL | or3.00 | a_ \ | | a R. b. Volume added | | <u> </u> | _ | 500660005 |
| ii, sereen joint, top | 16, 141512 | VI | ··· | | . Well casing: | Flush threaded PVC: | schedule 40 | ı 🗆 | 23 |
| I. Well bottom | ft. MSL | or13.50 | ft. () | | , won casing. | Flush threaded PVC | | | 24 |
| | | | ft. | | | | Other | | 300000 |
| J. Filter pack, bottom | ft. MSL | or13.50 | ft. | 10 | . Screen material: | PVC | | _ | 3000000 |
| • | | | | | a. Screen Type: | | Factory cut | \boxtimes | |
| K. Borehole, bottom | ft. MSL | or <u>13.50</u> | ft | | | Cont | tinuous slot | | 01 |
| | | | ~ <i>\////</i> | | | | Other | | |
| L. Borehole, diameter 4.50 | in. | | VIIIII | A | b. Manufacturer | | | | |
| | | | | | c. Slot size: | | _ | — | in |
| M. O.D. well casing | _ in. | | | ,, | d. Slotted length: | (below filter pack): | None | _ | ft |
| N. I.D. well casing 2.00 | ı <u></u> | | | 11. | , васкин шатепал | (nerow mier pack): | Other | | 14 |
| N. I.D. well casing 2.00 | in. | | | | | | | 23 | vvu630000 |
| I hereby certify that the information | on on this for | rm is true and | correct to the hest of n | ny knowledce | <u> </u> | | | | |
| Signature | | THE PRINT OF SECTION AND ADDRESS OF SECTION ADDRESS OF SECTION AND ADDRESS OF SECTION AND ADDRESS OF SECTION ADDRESS OF SECTION ADDRESS OF SECTION AND ADDRESS OF SECTION AND ADDRESS OF SECTION ADDRESS OF SEC | Firm AECOM | -7 montouge | • | | | | Tel; |
| Jacob Z | Pean | | AECUNI | | | | | | 101; |

| State of Wisconsin | | | | | | | | |
|--|----------------------|------------------------------------|-------------|---|--|-------------|------------|-------------------------------|
| Department of Natural Resources Route To: | Watershed/Wast | | Waste Mana | -Barram — | MONITORING WELL CONST | | CT | NOI. |
| Facility/Project Name | Remediation/Red | _ | Other 🗌 | | Form 4400-113A Rev. 7 Well Name | -98 | | |
| • • | | on of wen N. t. S. ——— | , [| □ E. □ W. | | | | |
| CN Manitowoc, 1110 Buffalo Street Facility License, Permit or Monitoring No. | Local Grid Origin | t. □ S. ——— ☐ (estimated: □ | π. [| □ W. ell Location ⊠ | 3 MW-64 Wis. Unique Well No. DNR Wel | 1 Nu | ımh | |
| 60615404 | Lat | | | | Wisi omque Wen 110. Brite Wen | 1114 | | • |
| Facility ID | 1 | | | | Date Well Installed | | | |
| • | St. Plane | ft. N, | | nt. E. S/C/N | 03/02/2020 | | | |
| Type of Well | 1 | | | _ _ E | Well Installed By: (Person's Nan | ne ar | ad F | irm) |
| | | 1/4 of Sec Relative to Waste/Se | | N, R W Gov. Lot Number | Tony Kapugi | | | |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgradien | | gradient | Jov. Lot Number | Onsite Environmenta | 1 | | |
| A. Protective pipe, top elevation | | | | Cap and lock? | ⊠ Y | es [| <u> </u> | No |
| | | | 2. | Protective cover p | ipe: | | | _ |
| B. Well casing, top elevation | ft. MSL | | / | a. Inside diameter | • | | 4.0 | 0_in. |
| C. Land surface elevation | ft. MSL 🤍 | ا الم | | b. Length: | _ | _ | | 0 ft. |
| D. Surface seal, bottom ft. MSI | or ft. | | BARNET. | c. Material: | | æl 🏻 | | 04 |
| 12. USCS classification of soil near screen: | | | AND | d. Additional prot | Oth ection? \(\subseteq Y | | | NTA |
| | w □ SP □ - | <u> </u> | | | : | CS E | Δ. | NU |
| | W□ SP□ L⊠ CH□ | | | • • | Bentoni | —— ita Г | _ | 3 0 |
| Bedrock □ | | | `3. | Surface seal: | Concre | | | 01 |
| 13. Sieve analysis attached? | es ⊠ No | | | | Oth | | _ , | 1000000 |
| 14. Drilling method used: Rota | ry □ 5 0 | | 4. | Material between | well casing and protective pipe: | | | |
| Hollow Stem Aug | • | | | | Bentoni | ite 🏻 | X : | 3 0 |
| Oth | er 🗆 📗 | | | | Sand Oth | er [| | 30000000 |
| | | | 5. | Annular space sea | l: a. Granular/Chipped Benton | ite [| _ · | 3 3 |
| | .ir □01 | | | - | ud weight Bentonite-sand slur | | | |
| Drilling Mud □ 0 3 Nor | ne ⊠99 | | | | ud weight Bentonite slur | | | |
| 16. Drilling additives used? ✓ Ye | es □No | | | % Benton | | | Ι. | 50 |
| To. Dinning account to about | | | | | volume added for any of the above | | _ | |
| Describe No | | | f. | . How installed: | | | | |
| 17. Source of water (attach analysis, if requir | ed): | | | | Tremie pump Gravi | | | |
| | | | | Bentonite seal: | | • | | |
| | | | , | b. □ 1/4 in. ⊠ 3 | a. Bentonite granul 3/8 in. □ 1/2 in. Bentonite chi | | | |
| E. Bentonite seal, top ft. MSL | or0.20_ ft. | | | | -144 1 | er [| | |
| E. Bentonic seai, wp | 01 16. | | .7. | • • • | l: Manufacturer, product name & | | | |
| F. Fine sand, top ft. MSL | or ft.` | | | 8 | , · | | _ : | 10000000 0.0000000 |
| | | | / / | b. Volume added | ft³ | | | |
| G. Filter pack, top ft. MSL | or2.50 ft. | | / ,8. | Filter pack materi | al: Manufacturer, product name & | ե me | sh: | size |
| - | | | | aR | ed Flint Sand and Gravel | | _ | 200520005 55555555 |
| H. Screen joint, top ft. MSL | or3.00 ft. | | | b. Volume added | ft ³ | | | |
| | | | / 9. | Well casing: | Flush threaded PVC schedule | 40 [| ⊐ : | 23 |
| I. Well bottom ft. MSL | or13.50 ft. | | | | Flush threaded PVC schedule | | | 24 |
| | 10.50 | | | | | er [| | 50000000 |
| J. Filter pack, bottom ft. MSL | or 13.50 ft. | | | Screen material: . | | _ | | 3000000 |
| | 12.50 | | | a. Screen Type: | Factory c | | | 11 |
| K. Borehole, bottom ft. MSL | or13.50 ft. | | | | Continuous sl | | | 300000000 |
| 450 | | | | 1. M C | | er [| 」 ∶ | 3000000 |
| L. Borehole, diameter4.50 in. | | | \ | b. Manufacturerc. Slot size: | | | | in. |
| M O D small assista | | | ` | d. Slotted length: | | | | — m. — ft. |
| M. O.D. well casing in. | | | | | | ne [| | |
| N. I.D. well casing 2.00 in. | | | 11, | | • • | er 2 | | 3000000 3000000 3000000 |
| III. | | | | | | _ | - ' | |
| I hereby certify that the information on this fo | rm is true and corre | ect to the best of my | knowledge. | | | | | |
| Signature | Firm | * | <u> </u> | | | | | Tel: |
| Jacob Dea | n | | | | | | | For: |

| State of Wisconsin | | | | | | |
|--|--------------------------------------|---|-----------------------------|--|-----------------|----------------------------------|
| Department of Natural Resources Route To: | Watershed/Wastewater | | nagement 🗌 | MONITORING WELL CONSTI | | TION |
| Facility/Project Name | Remediation/Redevelor | | | Form 4400-113A Rev. 7-1 | ة <i>ر</i> — | |
| • | Local Ond Location of V | | □ E. □ W. | | | |
| CN Manitowoc, 1110 Buffalo Street Facility License, Permit or Monitoring No. | Local Grid Origin | (estimated: □) or W | □ W. /ell Location ☑ | 3 MW-72 Wis. Unique Well No. DNR Well | Num | her |
| 60615404 | Lat | | | Wiscomque Wen 110. Britt Wen | . 1 | |
| Facility ID | | | | Date Well Installed | | |
| • | St. Plane Section Location of Was | | _ ft. E. S/C/N | 03/02/2020 | | |
| Type of Well | 1 | | □E | Well Installed By: (Person's Name | and | Firm) |
| | Location of Well Relativ | of Sec, T | N, R □ W Gov. Lot Number | Tony Kapugi | | |
| Distance from Waste/ Source Enf. Stds. Apply | u □ Upgradient d □ Downgradient | s Sidegradient | Gov. Lot Number | Onsite Environmental | | |
| A. Protective pipe, top elevation | | • | . Cap and lock? | ⊠ Ye | s 🗆 | No |
| | | 2 | . Protective cover p | pipe: | | |
| B. Well casing, top elevation | ft. MSL | | a. Inside diameter | 44 • | | in. |
| C. Land surface elevation | ft. MSL 🔪 | | b. Length: | | | i.0 ft. |
| D. Surface seal, bottom ft. MSI | or ft | | c. Material: | | | 04 |
| 12. USCS classification of soil near screen: | | | d. Additional prot | Other | _ | NTo |
| | W D SP D | | | : | 5 🖂 | NO |
| | W□ SP□ ` L⊠ CH□ | | • , | Bentonite | | 3 0 |
| Bedrock □ | | ₩ ₩ \ `3 | . Surface seal: | Concrete | | |
| 13. Sieve analysis attached? | es 🛮 No | | | Othe | _ | Solotototo |
| 14. Drilling method used: Rota | ry □50 | ₩ ₩ \4 | . Material between | well casing and protective pipe: | | |
| Hollow Stem Aug | • | | | Bentonite | × | 3 0 |
| Oth | er 🗆 💮 | | | Sand Other | . 🗆 | 30000000 |
| | | 3 4 5 8 6 | . Annular space sea | al: a. Granular/Chipped Bentonit | e 🗆 | 3 3 |
| | ir □01 | ₩ ₩ t | - | nud weight Bentonite-sand slurr | | |
| Drilling Mud □ 0 3 No. | ne ⊠99 | X X X | | nud weight Bentonite slurry | | |
| 16. Drilling additives used? ⊠ Y | es □ No | - ₩ ₩ d | l% Benton | | t 🗆 | 50 |
| To. Dinning destrict vos assets | | | | volume added for any of the above | _ | |
| DescribeNo | | | f. How installed | | _ | |
| 17. Source of water (attach analysis, if requir | ed): | | | Tremie pumpe Gravity | | |
| | | X X | . Bentonite seal: | • | | |
| | | | b. □ 1/4 in. ⊠ | a. Bentonite granule 3/8 in. □ 1/2 in. Bentonite chip | | |
| E. Bentonite seal, top ft. MSL | or0.20 ft. | | | Hills Bentonite 0.5 ft ³ Other | | 20000000 |
| E. Benome sea, wp | VI II. | | • • • | l: Manufacturer, product name & n | | |
| F. Fine sand, top ft. MSL | or ft. \ | 8 | a | / - | | 101010101 14634343 |
| | | | b. Volume added | ft³ | | |
| G. Filter pack, top ft. MSL | or2.50 ft. | .8. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | . Filter pack materi | al: Manufacturer, product name & | mest | ı size |
| - | | | aR | ed Flint Sand and Gravel | | 3000000 |
| H. Screen joint, top ft. MSL | or3.00 ft | | b. Volume added | ft ³ | | |
| | | | . Well casing: | Flush threaded PVC schedule 4 |) 🗆 | 23 |
| I. Well bottom ft. MSL | or 13.50 ft. | 10 | | Flush threaded PVC schedule 8 | | 20000000 |
| | 12.50 | | | Other | · 🗆 | |
| J. Filter pack, bottom ft. MSL | or 13.50 ft. | | . Screen material: | | - | 90000000 |
| | 12.50 | | a. Screen Type: | Factory cu | | 11 |
| K. Borehole, bottom ft. MSL | or15.50 ft. | | | Continuous slo | | 5555555555 |
| 1 Daniel 1 15 market 4 50 to | | | h Manufacturan | Other | , П | 9000000 |
| L. Borehole, diameter4.50 in. | | | c. Slot size: | | | in. |
| M O D yyall agging in | | | d. Slotted length: | - | | ft. |
| M. O.D. well casing in. | | \ | | (below filter pack): None | , [| |
| N. I.D. well casing in, | | | | Other | | 20000000 20000000 30000000 |
| | | | | | | |
| I hereby certify that the information on this for | rm is true and correct to the | he best of my knowledge |) . | | | |
| Signature | Firm | СОМ | | | | Tel: |
| Jacob Dean | 122 | | | | | For |

| State of Wisconsin | | | | | | | | |
|--|--------------------|---|-----------------|--|--|-------------|------------|-------------------------------|
| Department of Natural Resources Route To: | Watershed/Wa | | Waste Man | agement \square | MONITORING WELL CONST | | CT | NOI. |
| Facility/Project Name | Remediation/R | Redevelopment 🛛 | Other | | Form 4400-113A Rev. 7 | -98 | | |
| • | | inon of wen N, _ft. S, | ا م | □ E. □ W . | | | | |
| CN Manitowoc, 1110 Buffalo Street Facility License, Permit or Monitoring No. | Local Grid Orio | _π. □ S. ——— in □ (estimated: [| | □ W. ell Location ☑ | 3 MW-77 Wis. Unique Well No. DNR Wel | 1 Nu | mh | |
| 60615404 | Lat | | | | Wisi onique Wen 110. Brite Wen | 1114 | | • |
| Facility ID | † | | | | Date Well Installed | | | |
| • | | ft. N, n of Waste/Source | | π. E. S/C/N | 03/02/2020 | | | |
| Type of Well | 1 | | | □E | Well Installed By: (Person's Nan | ne ar | nd F | irm) |
| | | 1/4 of Sec 1 Relative to Waste/S | | N, R □ W Gov. Lot Number | Tony Kapugi | | | |
| Distance from Waste/ Source Enf. Stds. Apply | u 🗆 Upgradi | | egradient | | Onsite Environmenta | 1 | | |
| A. Protective pipe, top elevation | | | | Cap and lock? | ⊠ Y | es [| <u> </u> | No |
| | | | 2. | Protective cover p | pipe: | | | _ |
| B. Well casing, top elevation | ft. MSL - | | > / | a. Inside diameter | 4a • | | 4.0 | 0_in. |
| C. Land surface elevation | ft. MSL ~ | [[| | b. Length: | _ | _ | | 0 ft. |
| D. Surface seal, bottom ft. MSI | or ft. | | No. of the last | c. Material: | | æl 🏻 | (| 04 |
| 12. USCS classification of soil near screen: | 701 111 | | | d. Additional prot | Oth | | □ : | NTA |
| | w 🗆 sp 🗆 | VI I | | | : | es z | <u> </u> | NO |
| | W□ SP□ L⊠ CH□ | | | • , | Bentoni | —— ita Г | - . | 3 0 |
| Bedrock □ | | - ■ ※ ※ | `3. | Surface seal: | Concre | | | 01 |
| 13. Sieve analysis attached? | es ⊠ No | | | | Oth | | | 10000000 |
| 14. Drilling method used: Rota | ry □ 5 0 | | 4. | Material between | well casing and protective pipe: | | | |
| Hollow Stem Aug | • | | | | Bentoni | ite 🏻 | Z : | 3 0 |
| Oth | er 🗆 💮 | | | | Sand Oth | er [| □ | 30000000 |
| | | | 5. | Annular space sea | al: a. Granular/Chipped Benton | ite [| _ : | 3 3 |
| | .ir □01 | ₩ ₩ | | - | nud weight Bentonite-sand slur | | | |
| Drilling Mud □ 0 3 Nor | ne ⊠99 | - ■ ※ | | | nud weight Bentonite slur | | | |
| 16. Drilling additives used? ✓ Y | es □ No | | | % Benton | | | ⊐ : | 50 |
| To. Dinning destrict to about | | | | | volume added for any of the abov | | _ | |
| Describe No | | | f | How installed: | | | | |
| 17. Source of water (attach analysis, if requir | ed): | | | | Tremie pump Gravi | | | |
| 1 | , | | | Bentonite seal: | | • | | |
| | | | / 0. | b. □ 1/4 in. ⊠3 | a. Bentonite granul 3/8 in. □ 1/2 in. Bentonite chi | | | |
| E. Bentonite seal, top ft. MSL | or0.20_ f | . 🟻 🔛 | | | | er [| | <i>J L</i> |
| E. Bentonite seal, top ft. MSL | 01 1 | | .7. | • • | l: Manufacturer, product name & | | | |
| F. Fine sand, top ft. MSL | or fl | | | a | , , , , , , , , , , , , , , , , , , , | | 1 | 10000000 |
| | - | " \ \ | / / | b. Volume added | ft³ | | • | |
| G. Filter pack, top ft. MSL | or2.50 f | t. \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | | | al: Manufacturer, product name & | t me | sh : | size |
| • • | | | | a. R | ed Flint Sand and Gravel | | _ | 200020000 20003000 |
| H. Screen joint, top ft. MSL | or3.00 f | | | b. Volume added | ft³ | | | |
| | | | / 9. | Well casing: | Flush threaded PVC schedule | 40 [| コ <i>:</i> | 23 |
| I. Well bottom ft. MSL | or13.50 f | | | | Flush threaded PVC schedule | | | 24 |
| | 44.50 | | | | | er [| | 50000000 |
| J. Filter pack, bottom ft. MSL | or <u>13.50</u> ff | | 10. | Screen material: | | _ | | 3000000 |
| | 12.50 | | | a. Screen Type: | Factory of | | | 11 |
| K. Borehole, bottom ft. MSL | or 13.50 f | t. < | | | Continuous si | | | 300000000 |
| 450 | | | | 1. 16 6.4 | | er [| | 3000000 |
| L. Borehole, diameter4.50 in. | | | | | | | | |
| M O D well easing :- | | | | c. Slot size:d. Slotted length: | | | | in. ft. |
| M. O.D. well casing in. | | | _11 | | | ne [| | |
| N. I.D. well casing in. | | | .11 | | • / | er 2 | | 3000000 3000000 3000000 |
| III. | | | | | | _ | - ' | |
| I hereby certify that the information on this fo | rm is true and co | rrect to the best of my | knowledge. | | | | | |
| Signature | Fi | rm AECOM | | | | | | Tel: |
| Jacob Dean | | | | | | | | For: |

Well Development Forms

| | ed/Wastewater | Waste Management Other □ | | | | |
|---|---|-------------------------------------|----------------------|------------------|-------------------|------------------------|
| Facility/Project Name | ation/Redevelopment County | □ Otner □ | Well Name | | | |
| | | | Well Name | 1 1/4 | IW-10 | |
| CN Manitowoc, 200 N. 10th St Facility License, Permit or Monitoring Number | County | Code Wis. Unique Well Nu | ımber | DNR Well | Number | |
| 60615404 | County | wisi omque wen re | | Bivit wen | 1 (dilloci | |
| 00013 10 1 | I | | | - | | |
| 1. Can this well be purged dry? | ☐ Yes ⊠ No | 11. Depth to Water | Before Dev | elopment | After Dev | relopment |
| 2. Well development method: surged with bailer and bailed | ☐ 41 | (from top of well casing) | a. | 6.50 ft. | | 13.25 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⋈ 6 1□ 4 2□ 6 2 | Date | b. 3/5 | /2020 | 12/3 | 0/1899 |
| surged with block, bailed, and pumped compressed air | □ 70 □ 20 | Time | c. | □ a 03:55 ⊠ p | | □ a.m. 04:25 ⋈ p.m. |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | 12. Sediment in well bottom | 0 | .0 inches | (| 0.0 inches |
| other | | 13. Water clarity | | 1 0 1 5 | | 2 0 2 5 |
| 3. Time spent developing well | min. | • | Light brov | wn | Clear | |
| 4. Depth of well (from top of well casing) | 30 ft. | | | <u> </u> | Cicui | |
| 5. Inside diameter of well | 15.2 in. | | | | | |
| 6. Volume of water in filter pack and well casing | 1.4 gal. | | | | | |
| | | Fill in if drilling fluid | ls were used and v | well is at soli | d waste facilit | y: |
| 7. Volume of water removed from well | 25.0 gal. | 14. Total suspended | | mg/l | | mg/l |
| 8. Volume of water added (if any) | gal. | solids | | | | |
| 9. Source of water added | | 15. COD | | mg/l | | mg/l |
| 10 11 10 | | 16. Well developed by | y: Person's Name | and Firm | | |
| 10. Analysis performed on water added? | ☐ Yes ☐ No | Jacob I | Dean | | | |
| (If yes, attach results) | | AECO | М | | | |
| 17. Additional comments on development: | | ALCO | 1V1 | | | |
| | | | | | | |
| Facility Address or Owner/Responsible Party Ad | ldress | 71 1 20 1 | 1 1 : 2 | · · · | | 1 |
| Name: | | I hereby certify that to knowledge. | he above information | tion is true a | nd correct to the | ne best of my |
| Firm: | | Signature: | acob Dei | an | | |
| Street: 200 N. 10th Street | | Print Name: Jacob | Dean | | | |
| City/State/Zip: Manitowoc, WI 54220 |) | Firm:AEC | OM | | | |

| Route To: | Watershed/Wastewate | | Waste Management | | | | |
|---|---------------------|-------------|--------------------------------------|-----------------|------------------|-----------------------------|------------------------|
| E '1', /D ' . AI | Remediation/Redevel | | Other | XX 11 X I | | | |
| Facility/Project Name | 10.1 0. | County | | Well Name | 1 1 1 | TX7 1 4 | |
| CN Manitowoc, 200 N. Facility License, Permit or Monitoring | 10th Street | County Code | Wis. Unique Well Num | han | DNR Well | W-14 | |
| 60615404 | Number | County Code | wis. Offique well Null | ioei | DINK WEII | Number | |
| | | | | | | | |
| 1. Can this well be purged dry? | ☐ Yes | s 🛮 No | 11. Depth to Water | Before Dev | elopment | After De | evelopment |
| 2. Well development method: surged with bailer and bailed | □ 4 | | (from top of well casing) | a. | 7.55 ft. | | 8.06 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⊠ 6 □ 4 □ 6 | 2 | Date | b. 3/6 | /2020 | 12/ | 30/1899 |
| surged with block, bailed, and p | □ 2 | 0 0 | Time | c. | ⊠ a 09:00 □ p | | ⊠ a.m. 09:45 □ p.m. |
| bailed only pumped only pumped slowly | □ 5 □ 5 | 0 1 0 | 12. Sediment in well bottom | 0 | .1 inches | | 0.0 inches |
| other | | | 13. Water clarity | | 1 0 1 5 | Clear ⊠ Turbid □ (Describe) | 2 0 2 5 |
| 3. Time spent developing well | | min. | | Dark Bro | | Clear | |
| 4. Depth of well (from top of well casir | ng) | 45 ft. | | Muddy | | | |
| 5. Inside diameter of well | 1 | 4.9 in. | | | | | |
| 6. Volume of water in filter pack and w casing | vell | 1.2 gal. | | | | | |
| 7. Volume of water removed from well | 5 | 55.0 gal. | Fill in if drilling fluids | were used and v | well is at soli | d waste facil | ity: |
| | J | 75.0 gai. | 14. Total suspended | | mg/l | | mg/l |
| 8. Volume of water added (if any) | | gal. | solids | | | | |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l |
| | | | 16. Well developed by: | Person's Name | and Firm | | |
| Analysis performed on water added (If yes, attach results) | !? ☐ Yes | s 🗆 No | Jacob De | ean | | | |
| | | | AECOM |] | | | |
| 17. Additional comments on developments12 Gallong after purge and | | | | | | | |
| Facility Address or Owner/Responsible Name: | Party Address | | I hereby certify that the knowledge. | above informa | tion is true a | nd correct to | the best of my |
| Firm: | | | Signature: | cob Dei | an | | |
| Street: 200 N. 10th Street | | | Print Name: Jacob I | Dean | | | |
| City/State/Zip: Manitowoc, W | I 54220 | | Firm: AECO | M | | | |

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Route To: Watershed/Wa | | | Waste Management ☐ Other ☐ | | | | | |
|---|---|-------------|---|----------------|-----------|-----------------------------|---------------------|---------------------|
| Remediation/I Facility/Project Name | Kedevei | County | Otner 🗆 | Wall | Name | | | |
| | | County | | Well | Name | 1 1 | IW-17 | |
| CN Manitowoc, 200 N. 10th Street Facility License, Permit or Monitoring Number | | County Code | Wis. Unique Well Nur | nher | | DNR Wel | | |
| 60615404 | | County Code | Wis. Offique Well Ivan | iloci | | DIVIC WEI | rvamoer | |
| 00013404 | | | | | | | | |
| 1. Can this well be purged dry? | ⊠ Yes | □ No | 11. Depth to Water | Befor | re Deve | elopment | After De | evelopment |
| Well development method: surged with bailer and bailed | □ 4 | 1 | (from top of well casing) | a. | | 3.18 ft. | | 8.15 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | 6 4 6 | 2 | Date | b. | 3/5/ | /2020 | 12/ | 30/1899 |
| surged with block, bailed, and pumped compressed air | □ 7 □ 2 | 0 | Time | c. | (| □ a 03:15 ⊠ _I | n.m. o.m. | □ a.m. 03:50 ⋈ p.m. |
| bailed only pumped only pumped slowly | □ 1□ 5□ 5 | 1 | 12. Sediment in well bottom | | 0. | 1 inches | | 0.0 inches |
| | | | 13. Water clarity | Clear Turbi | id ⊠ 1 | 0 5 | Clear ⊠ Turbid □ | 2 0 2 5 |
| 3. Time spent developing well | | min. | | (Desc. | , | brown, | (Describe) Clear | |
| 4. Depth of well (from top of well casing) | | 35 ft. | | | ddy | | | |
| 5. Inside diameter of well | 1 | 5.2 in. | | | | | | |
| Volume of water in filter pack and well casing | | 2.0 gal. | E.H | | 1 1 | 11: 1 | .1 | |
| 7. Volume of water removed from well | 3 | 0.0 gal. | Fill in if drilling fluids 14. Total suspended | were us | sea ana v | well is at soi mg/l | id Waste Iacii | nty: mg/l |
| 8. Volume of water added (if any) | | gal. | solids | | | | | _ |
| 9. Source of water added | | | 15. COD | | | mg/l | | mg/l |
| | | | 16. Well developed by: | Person | 's Name | and Firm | | |
| Analysis performed on water added? (If yes, attach results) | ☐ Yes | □ No | Jacob D | ean | | | | |
| | | | AECON | Л | | | | |
| 17. Additional comments on development: | | | | | | | | |
| Facility Address or Owner/Responsible Party Address | · | | I hereby certify that the knowledge. | e above | informat | ion is true a | and correct to | the best of my |
| Name: | | | | cob | Dec | in | | |
| Street: 200 N. 10th Street | | | Print Name: Jacob | Dean | | | | |
| City/State/Zip: Manitowoc, WI 54220 | | | Firm: AECC | OM | | | | |

NOTE: See instructions for more information including a list of county codes and well type codes.

| | ed/Wastewater | Waste Management ✓ Other □ | | | | |
|---|-----------------------------|----------------------------------|-----------------------|-------------------|---------------------------|------------------|
| Facility/Project Name | ntion/Redevelopment [County | | Well Name | | | |
| | - | | Well Name | 1 M | IW-19 | |
| CN Manitowoc, 200 N. 10th St Facility License, Permit or Monitoring Number | County | Code Wis. Unique Well N | umber | DNR Well | Number | |
| 60615404 | County | Wist emque Wen IV | | Divite Wen | 1 (dilloci | |
| 00012 101 | l | | | 1 | | |
| 1. Can this well be purged dry? | ⊠ Yes □ No | o 11. Depth to Water | Before Dev | elopment | After Developme | nt_ |
| Well development method: surged with bailer and bailed | □ 41 | (from top of well casing) | a. | 5.29 ft. | 13.62 | ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | | Date | b. 3/6 | 5/2020 | 12/30/1899 | |
| surged with block, bailed, and pumped compressed air | □ 70 □ 20 | Time | c. | ⊠ a. 08:20 □ p | | ⊠ a.m. □ p.m. |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | 12. Sediment in well bottom | 0 | .0 inches | 0.0 inch | nes |
| other | | 13. Water clarity | Turbid ⊠ | 1 0 1 5 | Clear ⊠ 20 Turbid □ 25 | |
| 3. Time spent developing well | min | 1. | (Describe) Light brow | | (Describe) Clear | |
| 4. Depth of well (from top of well casing) | 30 ft. | | | | | _ |
| 5. Inside diameter of well | 15.3 in. | | | | | _ |
| Volume of water in filter pack and well casing | 1.7 gal. | | | | | _ |
| | | Fill in if drilling fluid | ds were used and v | well is at soli | d waste facility: | |
| 7. Volume of water removed from well | 10.0 gal. | 14. Total suspended | 1 | mg/l | m | g/l |
| 8. Volume of water added (if any) | gal. | solids | | | | |
| 9. Source of water added | | _ 15. COD | | mg/l | m | g/l |
| 10 4 1 2 6 1 1 10 | | 16. Well developed b | y: Person's Name | and Firm | | |
| 10. Analysis performed on water added? (If yes, attach results) | ☐ Yes ☐ No | Jacob | Dean | | | |
| (ii yes, attacii resuits) | | AECC | 0M | | | |
| 17. Additional comments on development: Purged dry 4 times. | | | | | | |
| Facility Address or Owner/Responsible Party Ad | ldress | I hereby certify that knowledge. | the above informa | tion is true an | nd correct to the best of | my |
| Firm: | | Signature: | acob Dei | an | | _ |
| Street: 200 N. 10th Street | | Print Name: Jacol | b Dean | | | _ |
| City/State/Zip: Manitowoc, WI 54220 |) | Firm: <u>AEC</u> | COM | | | _ |

| | Watershed/Wastewate | | Waste Management | | | | |
|---|---------------------|-------------|--------------------------------------|---------------|-------------------------|-----------------------------|------------------------|
| | Remediation/Redevel | | Other | XX 11 X 7 | | | |
| Facility/Project Name | 10.1 0 | County | | Well Name | 1 1 1 | III 25 | |
| CN Manitowoc, 200 N. Facility License, Permit or Monitoring 1 | 10th Street | County Code | Wis. Unique Well Num | hau | DNR Well | W-35 | |
| 60615404 | Number | County Code | wis. Onique wen Num | ioei | DINK WEII | Nullibei | |
| 00015101 | | | | | | | |
| 1. Can this well be purged dry? | ☐ Yes | ⊠ No | 11. Depth to Water | Before Dev | relopment | After De | evelopment |
| 2. Well development method: surged with bailer and bailed | □ 4 | | (from top of well casing) | a. | 4.14 ft. | | 5.58 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | | 2 | Date | b. 3/5 | 5/2020 | 12/ | 30/1899 |
| surged with block, bailed, and p | □ 2 | 0 | Time | c. | □ a 02:15 ⊠ p | | □ a.m. 02:50 ⋈ p.m. |
| bailed only pumped only pumped slowly | □ 1 □ 5 □ 5 | 1 0 | 12. Sediment in well bottom | 0 | .0 inches | | 0.0 inches |
| other | □ | | 13. Water clarity | | 1 0 1 5 | Clear ⊠ Turbid □ (Describe) | 2 0 2 5 |
| 3. Time spent developing well | | min. | | ` ′ | s brown, | ` ′ | |
| 4. Depth of well (from top of well casin | ıg) | 35 ft. | | muddy | | | |
| 5. Inside diameter of well | 1 | 5.3 in. | | | | | |
| Volume of water in filter pack and w casing | ell | 1.8 gal. | E.H | | 11 1. | 1 | |
| 7. Volume of water removed from well | 3 | 8.0 gal. | Fill in if drilling fluids v | were used and | well is at soli mg/l | d waste facil | ity: mg/l |
| 8. Volume of water added (if any) | | gal. | solids | | | | _ |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l |
| | | | 16. Well developed by: | Person's Name | and Firm | | |
| 10. Analysis performed on water added | ? □ Yes | □ No | Jacob De | ean | | | |
| (If yes, attach results) | | | AECOM | [| | | |
| 17. Additional comments on developme 18 Gallons after purge and p | | | | | | | |
| Facility Address or Owner/Responsible Name: | Party Address | | I hereby certify that the knowledge. | above informa | tion is true a | nd correct to | the best of my |
| Firm: | | | Signature: | cob De | an | | |
| Street: 200 N. 10th Street | | | Print Name: Jacob I | Dean | | | |
| City/State/Zip: Manitowoc, WI | 1 54220 | | Firm: AECO | M | | | |

| | Watershed/Wastewate | | Waste Management | | | | |
|---|---------------------|-------------|--|-------------------|-------------------------|-----------------------------|------------------------|
| | Remediation/Redevel | | Other | X7 11 X1 | | | |
| Facility/Project Name | 10.1 0 | County | | Well Name | 1 1 | III 20 | |
| CN Manitowoc, 200 N. Facility License, Permit or Monitoring 1 | 10th Street | County Code | Wis. Unique Well Num | lh an | DNR Well | W-39 | |
| Facility License, Permit or Monitoring 1 | Number | County Code | wis. Unique well Num | iber | DINK Well | Number | |
| 00013 10 1 | | | | | 1 | | |
| 1. Can this well be purged dry? | ☐ Yes | s 🛭 No | 11. Depth to Water | Before Dev | elopment | After De | evelopment |
| 2. Well development method: surged with bailer and bailed | | 1 | (from top of well casing) | a. | 4.48 ft. | | 12.58 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⊠ 6 □ 4 □ 6 | | Date | b. 3/5 | /2020 | 12/ | 30/1899 |
| surged with block, bailed, and p compressed air | oumped □ 7 □ 2 | 0 0 | Time | c. | □ a 01:30 ⊠ p | | □ a.m. 02:10 ⋈ p.m. |
| bailed only pumped only pumped slowly | □ 5 | 0 1 0 | 12. Sediment in well bottom | 0 | .0 inches | | 0.0 inches |
| other | | | 13. Water clarity | | 1 0 1 5 | Clear ⊠ Turbid □ (Describe) | 2 0 2 5 |
| 3. Time spent developing well | | min. | | Dark brov | vn | Clear | |
| 4. Depth of well (from top of well casin | ng) | 40 ft. | | | | | |
| 5. Inside diameter of well | 1 | 5.1 in. | | | | | |
| 6. Volume of water in filter pack and w casing | rell | 1.8 gal. | | | | | |
| 7. Volume of water removed from well | 1 | 4.0 gal. | Fill in if drilling fluids value 14. Total suspended | were used and v | vell is at soli mg/l | d waste facil | ity: mg/l |
| 8. Volume of water added (if any) | | gal. | solids | | nig/i | | mg/i |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l |
| | | | 16. Well developed by: | Person's Name | and Firm | | |
| 10. Analysis performed on water added | ? | s 🗆 No | Jacob De | ean | | | |
| (If yes, attach results) | | | AECOM | [| | | |
| 17. Additional comments on developme | ent: | | 2 3 2 2 3 3 3 3 | | | | |
| | | | | | | | |
| Facility Address or Owner/Responsible Name: | Party Address | | I hereby certify that the knowledge. | above information | tion is true a | nd correct to | the best of my |
| Firm: | | | Signature: | cob Dei | an | | |
| Street: 200 N. 10th Street | | | Print Name: Jacob I | Dean | | | |
| City/State/Zip: Manitowoc, Wi | I 54220 | | Firm: AECO | M | | | |

| | ed/Wastewater | | nagement [| | | | |
|---|--|-----------------------|-----------------|-----------------|------------------|------------------|---------------------|
| Facility/Project Name | tion/Redevelopment | | | Well Name | | | |
| | 1 - | | | well Name | 1 1 | IW-43 | |
| CN Manitowoc, 200 N. 10th St Facility License, Permit or Monitoring Number | County | Code Wis Unio | que Well Nur | mber | DNR Wel | | |
| 60615404 | County | Wis. oil. | ide Well I (di | 11001 | Brite wer | i i valiloci | |
| 00010.00 | | | | | | | |
| 1. Can this well be purged dry? | ⊠ Yes □ N | | n to Water | Before Dev | elopment | After De | evelopment |
| Well development method: surged with bailer and bailed | □ 41 | | top of casing) | a. | 5.11 ft. | | 13.99 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⋈ 61□ 42□ 62 | Date | | b. 3/5 | /2020 | 12/ | 30/1899 |
| surged with block, bailed, and pumped compressed air | □ 70 □ 20 | Time | | c. | □ a 12:40 ⊠ p | | □ a.m. 01:25 ⋈ p.m. |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | 12. Sedir | nent in well | 0 | .0 inches | | 0.0 inches |
| other | | 13. Wate | r clarity | Turbid 🛛 | 1 0 1 5 | Clear ⊠ Turbid □ | 2 0 2 5 |
| 3. Time spent developing well | miı | 1. | | (Describe) | | (Describe) | |
| 4. Depth of well (from top of well casing) | 45 ft. | | | Dark brov | <u>vn</u> | Clear | |
| 5. Inside diameter of well | 15.3 in. | | | | | | |
| 6. Volume of water in filter pack and well casing | 1.7 gal | | | | | | |
| | | | Irilling fluids | were used and v | well is at sol | id waste facil | ity: |
| 7. Volume of water removed from well | 8.0 gal | 14. Total | suspended | | mg/l | | mg/l |
| 8. Volume of water added (if any) | gal | . Solids | , | | | | |
| 9. Source of water added | | 15. COD | | | mg/l | | mg/l |
| | | 16. Well d | eveloped by: | Person's Name | and Firm | | |
| 10. Analysis performed on water added? | ☐ Yes ☐ N | o | Jacob D |) ean | | | |
| (If yes, attach results) | | | | | | | |
| 17. Additional comments on development: | | | AECON | Л | | | |
| Well purged dry 4 times | | | | | | | |
| | | | | | | | |
| Facility Address or Owner/Responsible Party Ac Name: | ldress | I hereby of knowledge | | e above informa | tion is true a | and correct to | the best of my |
| Firm: | | Signature | : <u>J</u> a | icob Dei | an | | |
| Street: 200 N. 10th Street | | Print Nan | ne: Jacob | Dean | | | |
| City/State/Zip: Manitowoc, WI 54220 | <u> </u> | Firm: | AECC | OM . | | | |

| Route To: Watershed | | er □ opment ⊠ | Waste Management ☐ Other ☐ | | | | |
|--|------------|------------------|---|-----------------|----------------------|-------------------------------|------------------------|
| Facility/Project Name | on/Redevel | County | Other 🗆 | Well Name | | | |
| | a.a.t | County | | Well Name | 2 1 | 1 W-11 | |
| CN Manitowoc, 1110 Buffalo Str Facility License, Permit or Monitoring Number | eei | County Code | Wis. Unique Well Nur | mber | DNR Wel | 1 vv - 1 1 1 Number | <u></u> |
| 60615404 | | | Wist Offique Well I van | 11001 | Divite Wes | i i vaimoei | |
| 00013 10 1 | | 1 | | | | | |
| 1. Can this well be purged dry? | ☐ Ye | s 🛮 No | 11. Depth to Water | Before Dev | elopment | After De | evelopment |
| Well development method: surged with bailer and bailed surged with bailer and pumped | | 1 1 | (from top of well casing) | a. | 2.45 ft. | | 3.67 ft. |
| surged with block and bailed surged with block and pumped | □ 4 | 2 2 | Date | b. 3/6 | 5/2020 | 3 | 3/6/2020 |
| surged with block, bailed, and pumped compressed air bailed only | □ 2 | 0 0 0 | Time | c. | 10:10 □ ₁ | a.m. o.m. | ⊠ a.m. 10:50 □ p.m. |
| pumped only pumped slowly other | □ 5 □ 5 | 1 0 | 12. Sediment in well bottom13. Water clarity | | .0 inches | Clear ⊠ | 0.0 inches 2 0 |
| 3. Time spent developing well | | min. | | (Describe) | 15 k brown, | Turbid □ (Describe) Clear | 2 5 |
| 4. Depth of well (from top of well casing) | | 40 ft. | | muddy | X 010 WII, | Cicai | |
| 5. Inside diameter of well | 1 | 5.0 in. | | | | | |
| 6. Volume of water in filter pack and well casing | | 2.1 gal. | | | | | |
| 7. Volume of water removed from well | 5 | 50.0 gal. | Fill in if drilling fluids 14. Total suspended | were used and | | id waste facil | |
| 8. Volume of water added (if any) | | gal. | solids | | mg/l | | mg/l |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l |
| 10 Aughvis marfamund on vysten oldod? | □ Va | | 16. Well developed by: | Person's Name | and Firm | | |
| 10. Analysis performed on water added? (If yes, attach results) | ☐ Yes | s □ No | Dean Ja | icob | | | |
| (II yes, attach results) | | | AECON | Л | | | |
| 17. Additional comments on development: 21 Gallons after purge and pump | | | | | | | |
| Facility Address or Owner/Responsible Party Add | ress | | I hereby certify that the knowledge. | e above informa | ation is true a | and correct to | the best of my |
| Firm: | | | Signature: | icob De | an | | |
| Street: 1110 Buffalo Street | | | Print Name: Jacob | Dean | | | |
| City/State/Zip: Manitowoc, WI 54220 | | | Firm: AECC | OM . | | | |

| · · · · · · · · · · · · · · · · · · · | rshed/Wastewater | Waste Management | | | |
|---|--|--------------------------------------|-----------------|------------------|---|
| | ediation/Redevelopment 🛛 | Other | XX7 11 X 7 | | |
| Facility/Project Name | County | | Well Name | 2 14 | TXX 1 4 |
| CN Manitowoc, 1110 Buffalo | Street | 1 177 11 ' 177 11 31 | | | <u>W-14</u> |
| Facility License, Permit or Monitoring Numb | er County Coo | le Wis. Unique Well Num | iber | DNR Well | Number |
| 60615404 | | | | | _ |
| 1. Can this well be purged dry? | ☐ Yes ⊠ No | 11. Depth to Water | Before Dev | elopment | After Development |
| Well development method: surged with bailer and bailed | □ 41 | (from top of | a. | 3.29 ft. | 4.15 ft. |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⋈ 61□ 42□ 62 | Date | b. 3/6 | /2020 | 3/6/2020 |
| surged with block, bailed, and pumpe compressed air | d □ 70 □ 20 | Time | c. | ⊠ a 11:10 □ p | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | 12. Sediment in well bottom | 0. | .1 inches | 0.0 inches |
| other | | 13. Water clarity | | 1 0 1 5 | Clear ⊠ 2 0 Turbid □ 2 5 (Describe) |
| 3. Time spent developing well | min. | | Dark brov | | Clear |
| 4. Depth of well (from top of well casing) | 40 ft. | | muddy | | |
| 5. Inside diameter of well | 15.4 in. | | | | |
| 6. Volume of water in filter pack and well casing | 2.0 gal. | | | | |
| | 50.0 | Fill in if drilling fluids | were used and v | well is at soli | d waste facility: |
| 7. Volume of water removed from well | 50.0 gal. | 14. Total suspended | | mg/l | mg/l |
| 8. Volume of water added (if any) | gal. | solids | | | |
| 9. Source of water added | | 15. COD | | mg/l | mg/l |
| 10 | | 16. Well developed by: | Person's Name | and Firm | |
| 10. Analysis performed on water added? (If yes, attach results) | ☐ Yes ☐ No | Dean Jac | cob | | |
| (ii yes, attacii resuits) | | AECOM | [| | |
| 17. Additional comments on development: 20 Gallons after purge and pump | | | | | |
| Facility Address or Owner/Responsible Party Name: | Address | I hereby certify that the knowledge. | above informat | tion is true a | nd correct to the best of my |
| Firm: | | Signature:a | cob Dei | in | |
| Street: 1110 Buffalo Street | | Print Name: Jacob I | Dean | | |
| City/State/Zip: Manitowoc, WI 542 | 20 | Firm: _AECO | M | | |

| <u></u> | atershed/Wastewater | | Waste Management | | | | | |
|---|--|-------------|--|-----------------|-------------------------|-----------------------------|------------------------|--|
| | mediation/Redevelop | | Other | XX 11 X 1 | | | | |
| Facility/Project Name | | County | | Well Name | 2 14 | III 20 | | |
| CN Manitowoc, 1110 Buffa Facility License, Permit or Monitoring Nur | alo Street | County Code | Wis. Unique Well Num | han | DNR Well | W-20 | | |
| 60615404 | noei | County Code | wis. Offique well found | 1001 | DINK Well | Number | | |
| 00013 10 1 | | | | | | | | |
| 1. Can this well be purged dry? | ☐ Yes | ⊠ No | 11. Depth to Water | Before Dev | elopment | After De | velopment | |
| 2. Well development method: surged with bailer and bailed | □ 41 □ - | | (from top of well casing) | a. | 4.30 ft. | | 4.46 ft. | |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | □ 61□ 42□ 62 | | Date | b. 3/6 | 5/2020 | 3 | /6/2020 | |
| surged with block, bailed, and pum compressed air | □ 20 | | Time | c. | □ a 12:10 ⊠ p | | □ a.m. 12:50 ⋈ p.m. | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | | 12. Sediment in well bottom | 0 | .0 inches | | 0.0 inches | |
| other | | | 13. Water clarity | | 1 0 1 5 | Clear ⊠ Turbid □ (Describe) | 2 0 2 5 | |
| 3. Time spent developing well | | min. | | Very dark | | Clear | | |
| 4. Depth of well (from top of well casing) | 4 | 40 ft. | | very dark | | | | |
| 5. Inside diameter of well | 15 | .2 in. | | | | | | |
| 6. Volume of water in filter pack and well casing | 1 | .8 gal. | | | | | | |
| 7. Volume of water removed from well | 50 | .0 gal. | Fill in if drilling fluids of the state of t | were used and v | well is at soli mg/l | d waste facili | ty: mg/l | |
| 8. Volume of water added (if any) | | gal. | solids | | g.: | | g. | |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l | |
| | | | 16. Well developed by: | Person's Name | and Firm | | | |
| 10. Analysis performed on water added? | ☐ Yes | □ No | Dean Jac | cob | | | | |
| (If yes, attach results) | | | AECOM | | | | | |
| 17. Additional comments on development: 18 Gallons after purge and pur | | | | | | | | |
| Facility Address or Owner/Responsible Pa | rty Address | | I hereby certify that the knowledge. | above informa | tion is true a | nd correct to | the best of my | |
| Firm: | | | Signature: | cob De | an | | | |
| Street: 1110 Buffalo Street | | | Print Name: Jacob I | Dean | | | | |
| City/State/Zip: Manitowoc, WI 5 | 4220 | | Firm: AECO | M | | | | |

| | shed/Wastewater | Waste Management | | | | |
|---|--|--------------------------------------|-------------------------|------------------|------------------------------|--|
| | liation/Redevelopment 🛛 | Other | W 11 N | | | |
| Facility/Project Name | County | | Well Name | 2 14 | TX1 45 | |
| CN Manitowoc, 1110 Buffalo Facility License, Permit or Monitoring Number | Street County Code | Wis. Unique Well Num | han | DNR Well | W-45 | |
| 60615404 | County Code | wis. Offique well Num | 000 | DINK Well | Number | |
| 00012101 | l | | | | | |
| 1. Can this well be purged dry? | ☐ Yes ⊠ No | 11. Depth to Water | Before Deve | elopment | After Development | |
| Well development method: surged with bailer and bailed | □ 41 □ | (from top of well casing) | a. | 3.50 ft. | 3.52 ft. | |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⋈ 61□ 42□ 62 | Date | b. 3/5/ | /2020 | 3/5/2020 | |
| surged with block, bailed, and pumped compressed air | □ 70 □ 20 | Time | с. (| □ a 04:45 ⊠ p | | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | 12. Sediment in well bottom | 0. | 0 inches | 0.0 inches | |
| other | | 13. Water clarity | Turbid 🛭 1 | 0 5 | Clear ⊠ 2 0 Turbid □ 2 5 | |
| 3. Time spent developing well | min. | | (Describe) Very dark | | (Describe) Clear | |
| 4. Depth of well (from top of well casing) | 35 ft. | | | | | |
| 5. Inside diameter of well | 15.3 in. | | | | | |
| Volume of water in filter pack and well casing | 2.0 gal. | | | | | |
| | | Fill in if drilling fluids v | were used and w | ell is at soli | d waste facility: | |
| 7. Volume of water removed from well | 55.0 gal. | 14. Total suspended | | mg/l | mg/l | |
| 8. Volume of water added (if any) | gal. | solids | | | | |
| 9. Source of water added | | 15. COD | | mg/l | mg/l | |
| | | 16. Well developed by: | Person's Name | and Firm | | |
| 10. Analysis performed on water added? (If yes, attach results) | ☐ Yes ☐ No | Dean Jac | ob | | | |
| (ii yes, attach results) | | AECOM | | | | |
| 17. Additional comments on development: 20 Gallons after purge and pump | | | | | | |
| Facility Address or Owner/Responsible Party A | Address | I hereby certify that the knowledge. | above informat | ion is true ar | nd correct to the best of my | |
| Firm: | | Signature: | cob Ded | en | | |
| Street: 1110 Buffalo Street | | Print Name: Jacob I | Dean | | | |
| City/State/Zip: Manitowoc, WI 5422 | 20 | Firm: AECO | M | | | |

| <u></u> | atershed/Wastewater | | Waste Management | | | | | |
|--|----------------------|------------|--------------------------------------|-----------------|-------------------------|-----------------------------|------------------------|--|
| | mediation/Redevelopm | | Other | XX7 11 3 7 | | | | |
| Facility/Project Name | | ounty | | Well Name | 2 1/ | W 50 | | |
| CN Manitowoc, 1110 Buffa Facility License, Permit or Monitoring Nur | alo Street | ounty Code | Wis. Unique Well Num | han | DNR Well | IW-58 | | |
| 60615404 | libei C | Junty Code | wis. Offique well Num | loci | DINK WEII | Number | | |
| 00013404 | | | | | | | _ | |
| 1. Can this well be purged dry? | ☐ Yes | ⊠ No | 11. Depth to Water | Before Dev | elopment | After De | velopment | |
| Well development method: surged with bailer and bailed | □ 41 | | (from top of well casing) | a. | 5.00 ft. | | 5.14 ft. | |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | | | Date | b. 3/6 | /2020 | 3 | /6/2020 | |
| surged with block, bailed, and pum compressed air | ped □ 70 □ 20 | | Time | c. | □ a 01:10 ⊠ p | | □ a.m. 01:50 ⋈ p.m. | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | | 12. Sediment in well bottom | 0. | 0 inches | | 0.0 inches | |
| other | | | 13. Water clarity | | 1 0 | Clear ⊠ Turbid □ (Describe) | 2 0 2 5 | |
| 3. Time spent developing well | | min. | | Dark brov | vn | Clear | | |
| 4. Depth of well (from top of well casing) | 40 |) ft. | | Durk blov | <u> </u> | | | |
| 5. Inside diameter of well | 15.3 | 3 in. | | | | | | |
| 6. Volume of water in filter pack and well casing | 1.7 | 7 gal. | | | | | | |
| 7. Volume of water removed from well | 50.0 |) gal. | Fill in if drilling fluids v | were used and v | vell is at soli mg/l | d waste facili | ity: mg/l | |
| 8. Volume of water added (if any) | | gal. | solids | | 8 | | 8- | |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l | |
| | | | 16. Well developed by: | Person's Name | and Firm | | | |
| 10. Analysis performed on water added? | ☐ Yes | □ No | Dean Jac | ob | | | | |
| (If yes, attach results) | | | AECOM | | | | | |
| 17. Additional comments on development:17 Gallons after purge and purge | | | | | | | | |
| Facility Address or Owner/Responsible Pa | rty Address | | I hereby certify that the knowledge. | above informat | ion is true a | nd correct to | the best of my | |
| Firm: | | | Signature: | cob Dec | in | | | |
| Street: 1110 Buffalo Street | | | Print Name: Jacob I | Dean | | | | |
| City/State/Zip: Manitowoc, WI 5 | 4220 | | Firm: AECO | M | | | | |

| | ershed/Wastewater | | Waste Management | | | | | |
|---|--|-----------|--------------------------------------|-----------------|------------------|-----------------------------|------------------------|--|
| | nediation/Redevelopme | | Other | W 11 N | | | | |
| Facility/Project Name | Cou | inty | | Well Name | 2 1/ | TX1 (1 | | |
| CN Manitowoc, 1110 Buffal Facility License, Permit or Monitoring Num | o Street | ınty Code | Wis. Unique Well Num | han | DNR Well | W-64 | | |
| 60615404 | Dei Cou | inty Code | wis. Omque wen Num | DEI | DINK Well | Number | | |
| 00015404 | | | | | | | | |
| 1. Can this well be purged dry? | ☐ Yes ⊠ | No | 11. Depth to Water | Before Dev | elopment | After De | velopment | |
| Well development method: surged with bailer and bailed | □ 41 □ | | (from top of well casing) | a. | 4.58 ft. | | 4.59 ft. | |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | □ 61□ 42□ 62 | | Date | b. 3/4 | /2020 | 3 | /4/2020 | |
| surged with block, bailed, and pump compressed air | □ 20 | | Time | c. | ⊠ a 11:10 □ p | | □ a.m. 12:00 ⋈ p.m. | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | | 12. Sediment in well bottom | 0. | 0 inches | | 0.0 inches | |
| other | | | 13. Water clarity | | 1 0 | Clear ⊠ Turbid □ (Describe) | 2 0 2 5 | |
| 3. Time spent developing well | | min. | | Very mud | | 1 | | |
| 4. Depth of well (from top of well casing) | 50 | ft. | | brown | | | | |
| 5. Inside diameter of well | 15.1 | in. | | | | | | |
| 6. Volume of water in filter pack and well casing | 1.7 | gal. | | | | | | |
| 7. Volume of water removed from well | 55.0 | gal. | Fill in if drilling fluids v | were used and v | vell is at soli | d waste facili | ty: | |
| 8. Volume of water added (if any) | | gal. | 14. Total suspended solids | | mg/l | | mg/l | |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l | |
| | | | 16. Well developed by: | Person's Name | and Firm | | | |
| 10. Analysis performed on water added? | ☐ Yes ☐ | No | Dean Jac | ob | | | | |
| (If yes, attach results) | | | AECOM | | | | | |
| 17. Additional comments on development: 18 Gallons after purge and pum | p | | | | | | | |
| Facility Address or Owner/Responsible Part Name: | y Address | | I hereby certify that the knowledge. | above informat | tion is true a | nd correct to | the best of my | |
| Firm: | | | Signature: | cob Dei | in | | | |
| Street: 1110 Buffalo Street | | | Print Name: Jacob I | Dean | | | | |
| City/State/Zip: Manitowoc, WI 54 | 220 | | Firm: AECO | M | | | | |

| | tershed/Wastewater | | Waste Management | | | | | |
|---|--|------------|--|---------------------------------------|-------------------------|-------------------|------------------------|--|
| | nediation/Redevelopm | | Other | 337 11 N | | | | |
| Facility/Project Name | | ounty | | Well Name | 2 1/ | IW 70 | | |
| CN Manitowoc, 1110 Buffa Facility License, Permit or Monitoring Num | lo Street | ounty Code | Wis. Unique Well Num | l l l l l l l l l l l l l l l l l l l | DNR Well | IW-72 | | |
| 60615404 | ibei | Junty Code | wis. Onique wen Num | ioei | DINK Well | Number | | |
| 00013 10 1 | | | | | - | | | |
| 1. Can this well be purged dry? | ☐ Yes | ⊠ No | 11. Depth to Water | Before Dev | elopment | After Dev | elopment | |
| Well development method: surged with bailer and bailed | □ 41 | | (from top of well casing) | a. | 5.54 ft. | | 5.57 ft. | |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | ⋈ 61□ 42□ 62 | | Date | b. 3/4 | /2020 | 3/ | 4/2020 | |
| surged with block, bailed, and pump compressed air | Ded □ 70 □ 20 | | Time | c. | □ a 01:00 ⊠ p | | □ a.m. 01:40 ⋈ p.m. | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | | 12. Sediment in well bottom | 0 | .0 inches | (| 0.0 inches | |
| other | | | 13. Water clarity | | 1 0 1 5 | | 2 0 2 5 | |
| 3. Time spent developing well | | min. | | Dark brov | x/n | Clear | | |
| 4. Depth of well (from top of well casing) | 40 | O ft. | | Dark blov | | Cicai | | |
| 5. Inside diameter of well | 15.4 | 4 in. | | | | | | |
| 6. Volume of water in filter pack and well casing | 1.0 | 5 gal. | | | | | | |
| 7. Volume of water removed from well | 55.0 |) gal. | Fill in if drilling fluids value 14. Total suspended | were used and v | well is at soli mg/l | d waste facilit | y: mg/l | |
| 8. Volume of water added (if any) | | gal. | solids | | | | g. | |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l | |
| | | | 16. Well developed by: | Person's Name | and Firm | | | |
| 10. Analysis performed on water added? | ☐ Yes | □ No | Dean Jac | cob | | | | |
| (If yes, attach results) | | | AECOM | | | | | |
| 17. Additional comments on development: 17 Gallons after purge and pun | np | | | | | | | |
| Facility Address or Owner/Responsible Par | ty Address | | I hereby certify that the knowledge. | above informa | tion is true a | nd correct to the | ne best of my | |
| Firm: | | | Signature: | cob Dei | an | | | |
| Street: 1110 Buffalo Street | | | Print Name: Jacob I | Dean | | | | |
| City/State/Zip: Manitowoc, WI 54 | 220 | | Firm: AECO | M | | | | |

| | tershed/Wastewater | | Waste Management |] | | | | |
|---|--|-------------|---|-----------------------------|---------------------------|-------------------|------------------------|--|
| | mediation/Redevelo | | Other | XX7 11 X 7 | | | | |
| Facility/Project Name | | County | | Well Nam | | W 77 | | |
| CN Manitowoc, 1110 Buffa Facility License, Permit or Monitoring Nun | lo Street | County Code | Wis. Unique Well Num | ahan | DNR Well | W-77 | | |
| 60615404 | idei | County Code | wis. Offique well Null | 1001 | DINK Well | Number | | |
| 00013101 | I | | | | | | | |
| 1. Can this well be purged dry? | ☐ Yes | ⊠ No | 11. Depth to Water | Before De | evelopment | After Dev | velopment | |
| Well development method: surged with bailer and bailed | □ 41 | | (from top of well casing) | a. | 6.17 ft. | | 6.20 ft. | |
| surged with bailer and pumped surged with block and bailed surged with block and pumped | □ 61□ 42□ 62 | | Date | b. 3 | /4/2020 | 3/ | 4/2020 | |
| surged with block, bailed, and pump compressed air | Ded □ 70 □ 20 |) | Time | c. | □ a 12:10 ⊠ p | | □ a.m. 12:50 ⊠ p.m. | |
| bailed only pumped only pumped slowly | □ 10 □ 51 □ 50 | | 12. Sediment in well bottom | | 0.0 inches | | 0.0 inches | |
| other | | | 13. Water clarity | Clear ☐ Turbid ☒ (Describe) | 1 0 1 5 | | 2 0 2 5 | |
| 3. Time spent developing well | | min. | | Dark br | own | Clear | | |
| 4. Depth of well (from top of well casing) | | 40 ft. | | - Durk of | | Cicui | | |
| 5. Inside diameter of well | 15 | 5.0 in. | | | | | | |
| 6. Volume of water in filter pack and well casing | 1 | .4 gal. | | | 1 11: | | | |
| 7. Volume of water removed from well | 55 | 5.0 gal. | Fill in if drilling fluids 14. Total suspended | were used an | d well is at soli mg/l | d waste facilit | y: mg/l | |
| 8. Volume of water added (if any) | | gal. | solids | | mg r | | mg i | |
| 9. Source of water added | | | 15. COD | | mg/l | | mg/l | |
| | | | 16. Well developed by: | Person's Nar | ne and Firm | | | |
| 10. Analysis performed on water added? | ☐ Yes | □ No | Dean Jac | cob | | | | |
| (If yes, attach results) | | | AECOM | | | | | |
| 17. Additional comments on development: 15 Gallons after purge and pun | np | | ALCON. | 1 | | | | |
| Facility Address or Owner/Responsible Par | ty Address | | I hereby certify that the knowledge. | e above inforr | nation is true a | nd correct to the | he best of my | |
| Firm: | | | Signature:a | cob D | ean | | | |
| Street: 1110 Buffalo Street | | | Print Name: Jacob I | Dean | | | | |
| City/State/Zip: Manitowoc, WI 54 | 220 | | Firm: AECO | M | | | | |

Appendix C Temporary Well Sealing Reports (Form 5500-005)

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

| | | | | to DNR Burea | u: | Three controls the feet and | | | | | |
|--|----------------|------------|-------------|--|--|---|--|--|----------------|--------|--|
| Verification Only of Fi | ll and Sea | al . | grammed . | rinking Water | Ļ | _ Watershed/Wa | stewater | Remedi | iation/Redevel | opment | |
| | | | ∐ v | Vaste Manager | nent | Other: | | | | | |
| 1. Well Location Information | n | | | | THE REAL PROPERTY AND ADDRESS OF THE PARTY AND | y / Owner Info | rmation | | | | |
| Remo | nique Well # | | Hicap # | | Facility Na | ime | | | | | |
| Mantowoc SB | -10/TW | -10 | | | E116-1D | ICID DIVIDI | | | | | |
| Latitude / Longitude (see instructi | ions) | Forma | t Code | Method Code | | (FID or PWS) | | | | | |
| | N | | DD | GPS008 | 1. 1 | ermit/Monitoring # | | | | | |
| | W | | DDM | SCR002 | The second secon | e grintomonitomi w | | | | | |
| 74/74 174 | Section | How | wnship | Range T | | /ell Owner | | | | | |
| or Gov't Lot # | - | | | | V | omati ometa ometa meta | | | | | |
| Well Street Address | | | N | L | Present W | fell Owner | | | | | |
| 0 N.10 4110 5 Back | | L | | | | | | | | | |
| Well City, Village or Town | V 10 3 | - t | Well | ZIP Code | Mailing Ad | Idress of Present | Owner | | | | |
| Maritonoc | | | | 4220 | | | | | | | |
| Subdivision Name | DE 30-5/10 | | Lot # | - | City of Pre | esent Owner | | State | ZIP Code | | |
| | | | | | | | | | | | |
| Reason for Removal from Service | e Wi Uni | ique We | ell#ofRe | placement We | 11. Presidential and the second | , Liner, Screer | A STATE OF THE OWNER, | aling Mate | I married | | |
| | | | | - | | and piping remove | d7 | 닏 | Yes No | N/A | |
| 3. Filled & Sealed Well / Dr | | | | | 95.05 F Z | removed? | | 님 | Yes No | N/A | |
| Monitoring Well | Original Co | | | (mm/dd/yyyy) | E 18 | perforated? | | 님 | Yes No | N/A | |
| Water Well | 11/15/2019 | | | | 1155 M | Screen removed? Casing left in place? Yes No N/A Yes No N/A | | | | | |
| Rorobolo / Drillhole | | | ction Rep | ort is available, | | Tanget Laure Laure | | | | | |
| Borehole / Drillhole please attach. | | | | | 10.00 | | 님 | Yes No | N/A | | |
| Construction Type: | 15 1 1 1 1 | | | or. | | Did sealing material rise to surface? Did material settle after 24 hours? Did material settle after 24 hours? Yes No N/A | | | | | |
| | (Sandpoint) | | Du | 9 | | If yes, was hole retopped? | | | | | |
| Other (specify): 4 | | | | | . 151 | nite chips were u | | drated | | | |
| Formation Type: | - | - | | | with wa | iter from a known | safe source? | | Yes WNo | N/A | |
| Unconsolidated Formation | Ĺ | Bed | rock | | Required I | Method of Placing | (Consent) | | | | |
| Total Well Depth From Ground S | urface (ft) | Casing |) Diamete | r (in) | Francisco . | ductor Pipe-Gravi | ty Conducto | r Pipe-Pump | ped | | |
| | | | | | | ened & Poured ntonite Chips) | Other (Ex | plain) | | | |
| Lower Drillhole Diameter (in) | | Casing | Depth (f | 1) | Sealing M | aterials | | | | | |
| | | |) | | Nea | t Cement Grout | | Concrete | | | |
| 221 21 22 22 22 22 22 22 22 22 22 22 22 | | 1 | 157 | P | | d-Cement (Concre | ete) Grout | Bentonite | Chips | | |
| Was well annular space grouted? | | Yes | V No | Unknov | For Monite | oring Wells and M | lonitoring Well Bo | reholes Onl | y. | | |
| If yes, to what depth (feet)? | Dept | h to Wa | iter (feet) | | Bent | tonite Chips | ☐ Bent | onite - Cem | ent Grout | | |
| | | | | | Gran | nular Bentonite | Bent | onite - Sand | Slurry | | |
| 5. Material Used to Fill Wel | l / Drillhol | е | | | From (ft. | .) To (ft.) | No Yards, Sacks | | | | |
| B | ento ite- | 1-00 | · lac | miles suggest | Surface | | Volume (circ | ie one) | Mud We | Holate | |
| Ш. | exto ite- | D.1 W | I VC (4) | | Surrace | - 10 | 010 | | | | |
| | | | | | | | | | - | | |
| 6. Comments | | F 100 100 | | | | and the season | Service Control | The state of the s | | | |
| Jarob Dean of A Ecol | m obser | ved | onsit | e, enviror | mental | as subcon- | tractor to | AEcom | and sight | edth | |
| 6. Comments Jacob Dean of A Ecol Form verify: 7. Supervision of Work | th m | ellr | emova | il and se | aling. | | | DAID II. | 0-1 | | |
| Name of Person or Firm Doing F | illing & Seali | ng IL | icense # | Date of | Filling & Seal | ing or Venfication | Date Received | DNK USE | Noted By | | |
| Onsite environmental | | 2.40 | | (mm/de | | 103/2020 | | | , | | |
| Street or Route | | - 1 | | | Telephone N | lumber | Comments | | | | |
| PO BOX 280 | | | | | (608)83 | 37-8992 | | | | | |
| City | | State | | Code | Signature | of Person Boing | Work | Da | ite Signed | | |
| Sun Prailie | | W | 1 ' | 53590 | 1/2 | eg// Vw | | | 3-3-20 | 7 | |
| The state of the s | | - Property | | Manager and the same and the sa | 1 | 8,4 | The second secon | | | | |

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 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. Route to DNR Bureau:

| Verification Only of Fill and Seal | Drinking Water | Watershed/Wastewater | Remediation/Redevelopment | | | |
|--|--|--|--|--|--|--|
| | Waste Managemer | Longrand | | | | |
| 1. Well Location Information | | 2. Facility / Owner Information | | | | |
| County WI Unique Well # of Removed Well , , , | Hicap # | Facility Name | | | | |
| Martonoc SB 14/TW-14 | | | | | | |
| The state of the s | at Code Method Code | Facility ID (FID or PWS) | | | | |
| The state of the second | CDCCCC | | | | | |
| N L | DD GS000 | License/Permit/Monitoring # | | | | |
| w | DDM OTHO01 | | | | | |
| 14/24 1/4 Section To | wnship Range F | Original Well Owner | | | | |
| or Gov't Lot# | N Dw | | | | | |
| Well Street Address | 10 | Present Well Owner | | | | |
| BILLY COURT OF CONTRACT OF CONTRACT CON | <1. | | | | | |
| 200 N. Main 1110 Buffelo | Well ZIP Code | Mailing Address of Present Owner | | | | |
| Well City, Village or Town | 54220 | | | | | |
| Man | Lot# | City of Present Owner | State ZIP Code | | | |
| Subdivision Name | LO! # | | | | | |
| T. A. C. | 1 | 4. Pump, Liner, Screen, Casing & | Sealing Material | | | |
| Reason for Removal from Service WI Unique W | ell # of Replacement Well | Pump and piping removed? | Yes No N/A | | | |
| | | Liner(s) removed? | Yes No N/A | | | |
| 3. Filled & Sealed Well / Drillhole / Boreho | | Liner(s) perforated? | | | | |
| VI Montonna VVell | tion Date (mm/dd/yyyy) | Screen removed? | to the second se | | | |
| Dwiston Well | 1/20/2018 | 7-555710/05/047 2 B/030 | Yes No NA | | | |
| Water Well If a Well Constru | ction Report is available, | Casing left in place? | Yes Yo No N/A | | | |
| Borehole / Drillhole please attach. | | Was casing cut off below surface? | Yes No NA | | | |
| Construction Type | And the Section History and the second | Did sealing material rise to surface? | Yes No N/A | | | |
| Drilled Driven (Sandpoint) | Dug | Did material settle after 24 hours? Yes No N/A | | | | |
| Other (specify) 4 | housed | If yes, was hole retopped? | Yes No N/A | | | |
| Comment to Best Street | | If bentonite chips were used, were the | | | | |
| Formation Type: | | with water from a known safe source? | | | | |
| Unconsolidated Formation Be | drock | Required Method of Placing Sealing Mate | | | | |
| Total Well Depth From Ground Surface (ft) Casin | g Diameter (in.) | The contract of the property o | uctor Pipe-Pumped | | | |
| | 0.75 | Screened & Poured Other | (Explain): | | | |
| AAAD YARA MAAAAAA AAAA AAAA AAAA AAAAA AAAAA AAAAA AAAA | g Depth (ft.) | Sealing Materials | (1) | | | |
| Lord, Diminolo Diamoto (m) | 10 | Neat Cement Grout | Concrete | | | |
| | 10 | | | | | |
| Was well annular space grouted? Yes | No Unknown | Sand-Cement (Concrete) Grout | Bentonite Chips | | | |
| | hamed hamed | For Monitoring Wells and Monitoring Wel | in the state of th | | | |
| If yes, to what depth (feet)? Depth to W | ater (feet) | | Bentonite - Gement Grout | | | |
| | | Granular Bentonite | Bentonite - Sand Slurry | | | |
| 5. Material Used to Fill Well / Drillhole | | | acks Sealant or Mix Ratio or | | | |
| | | VOIDING | (circle ane) Mud Weight | | | |
| Denton | ite-branular | Surface 10 31b | 1200-00-00-00-00-00-00-00-00-00-00-00-00- | | | |
| Name of the second seco | | <u> </u> | | | | |
| | | | | | | |
| 6. Comments | ancide on a commo | Whel as a s. A. contracted | ASCHAR C. SALIAL VOLVA | | | |
| They begin the Hell Comment | and Cections | inal as a topiconstactor to | Heren 213/00 / No boil! | | | |
| 6. Comments Varieb Dean of Aziom Observed Ven Frinz The Well removal 7. Supervision of Work | and redick). | Service of the Control of the Contro | DNR Use Only | | | |
| Name of Person or Firm Doing Filling & Sealing | icense # Date of F | illing & Sealing or Verification Date Recei | ived Noted By | | | |
| onsite environmental services | | 0505/20/50 (VXX | - | | | |
| Street or Route | | elephone Number Comments | The state of the s | | | |
| PO BOX 280 | | 608 837-8992 | | | | |
| Crity Sta | | | Date Signed | | | |
| | 11 53590 | Signature of Person Doing Work Well, Han | 3-4-20 | | | |
| JUMPAINE | 1 00110 | The Dear | 17 | | | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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 Sea | | Watershed/Wastewate | Remediation/Redevelopment |
|--|--|--|--|
| | Waste Managemen | nt Other: | |
| 1. Well Location Information | | 2. Facility / Owner Information | on the second se |
| County WI Unique Well # | of Hicap # | Facility Name | |
| Manitowoc SR 17/TW 1 | 7 | | |
| Latitude / Longitude (see instructions) | Format Code Method Code | Facility ID (FID or PWS) | |
| N | DDD GPS008 | | |
| | SCR002 | License/Permit/Monitoring # | |
| W | DDM OTH001 | | |
| 1/4 1/4 Section | Township Range E | Original Well Owner | |
| or Gov't Lot # | N W | | |
| Well Street Address | | Present Well Owner | |
| 200 N. 10th 1/10 Ba | Halo St. | | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present Owner | |
| Mantowoc | 54270 | | |
| Subdivision Name | Lot# | City of Present Owner | State ZIP Code |
| | | | |
| Reason for Removal from Service WI Un | ique Well # of Replacement Well | 4. Pump, Liner, Screen, Casi | part part |
| | The same and the s | Pump and piping removed? | Yes No NA |
| 3. Filled & Sealed Well / Drillhole / Bo | orehole Information | Liner(s) removed? | Yes No N/A |
| Monitoring Well Original Co | onstruction Date (mm/dd/yyyy) | Liner(s) perforated? | Yes No N/A |
| = | 11115/2018 | Screen removed? | U∕Yes □ No □ N/A |
| Water Well | Construction Report is available. | Casing left in place? | Yes No NA |
| Borehole / Drillhole please att | | Was casing cut off below surface | e? Yes WNo N/A |
| Construction Type. | | Did sealing material rise to surfa | ce? Yes YNO N/A |
| Drilled Driven (Sandpoint) | Dug | Did material settle after 24 hours | Yes You N/A |
| Other (specify): 4 | _ | If yes, was hole retopped? | Yes No N/A |
| Formation Type | | If bentonite chips were used, we with water from a known safe so | |
| Unconsolidated Formation | Bedrock | Required Method of Placing Sealin | CHUCE I beend togical beend |
| Total Well Depth From Ground Surface (ft.) | | Conductor Pipe-Gravity | Conductor Pipe-Pumped |
| Total Well Depth From Ground Surface (it) | Casing Diameter (in.) | Screened & Poured | |
| 10 | 0.75 | (Bentonite Chips) | Other (Explain) |
| Lower Drillhole Diameter (in) | Casing Depth (ft.) | Sealing Materials | |
| 0 | 10 | Neat Cement Grout | Concrete |
| Dia | Two Day | Sand-Cement (Concrete) Gro | out Bentonite Chips |
| Was well annular space grouted? | Yes UNo Unknown | For Monitoring Wells and Monitoring | ng Well Boreholes Only |
| If yes, to what depth (feet)? Dept | h to Water (feet) | Bentonite Chips | Bentonite - Cement Grout |
| | | Granular Bentonite | Bentonite - Sand Slurry |
| 5. Material Used to Fill Well / Drillhol | THE STREET STREET | From (B) To (#) No Ya | rds, Sacks Sealant or Mix Ratio or |
| Constitution of the contract o | | THE RESIDENCE OF THE PARTY OF T | dume (circle one) Mud Weight |
| - Bent | onik- branular | Surface D | 3165 |
| | | | |
| | | | |
| 6. Comments | and another description ha | andal as a Chranden | where the A scarce and Sich at |
| the form was ruing about | TOTA CIBITE EXIVITATIVE | See In a | Hot your cours and signed |
| Jacob Dean of Arom obse the form verifying the 7. Supervision of Work | wen janovar an | Jean 19 | DNR Use Only |
| Name of Person or Firm Doing Filling & Seal | ing License # Date of F | | Received Noted By |
| Onsite invironmental | (mm/dd/y | yyy) = 3/03/2020 | |
| Street or Route | 1 | | ments |
| PUBOX 280 | | 608)837-8992 | |
| City | State ZIP Code | Signature of Person Doing Work | Date Signed |
| Sinfraine | WI 53590 | (Juli Ger | 3-3-20 |
| The state of the s | | 70 | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

| Route to DNR Bureau:

| Verification Only of Fill and Seal | Drinking Water | Watershed/Was | ewater Re | mediation/Redevelopment |
|--|--|--|----------------------------------|-------------------------|
| | Waste Manageme | nt Other: | | |
| 1. Well Location Information | | 2. Facility / Owner Infor | mation | |
| Multipue Well # of Removed Well Sp - 9 / 1 / 1 - 9 | Hicap # | Facility Name | | |
| | Code Method Code | Facility ID (FID or PWS) | | |
| | DD GPS008 | | | |
| | DDM SCR002 OTH001 | License/Permit/Monitoring # | | |
| V4 / V4 Section To | wnship Range E | Original Well Owner | | |
| Well Street Address | N L W | Present Well Owner | | |
| 200 N. 10th +++0 S. Buffalo. | (1) | | | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present C | wner | |
| Manito wac | 54220 | | | |
| Subdivision Name | Lot# | City of Present Owner | Stat | e ZIP Code |
| Daniel Carrier Miller Miller | II of Denis consent Mail | 4. Pump, Liner, Screen, | Casing & Spaling | Material |
| Reason for Removal from Service WI Unique We | ell # of Replacement Well | Pump and piping removed | | Yes No NA |
| 2 Fill J. P. C. J. J. M. H. / D. H. J. / D | a professional service | Liner(s) removed? | | Tyes TNo TN/A |
| 3. Filled & Sealed Well / Drillhole / Borehol | ion Date (mm/dd/yyyy) | Liner(s) perforated? | | Tyes TNo TN/A |
| Monitoring Well | 5/2018 | Screen removed? | | Yes No NA |
| Water Well | | Casing left in place? | | Yes No No N/A |
| Borehole / Drillhole please attach. | tion Report is available, | Was casing cut off below : | surface? | TYES TONO TINA |
| Construction Type: | The state of the s | Did sealing material rise to | | Yes No NA |
| ☑ Drilled ☐ Driven (Sandpoint) | Dug | Did material settle after 24 | hours? | Tyes No TN/A |
| Other (specify): 4 | | If yes, was hole retopp | ped7 | Yes No N/A |
| beam) | | If bentonite chips were use | | Tyes Wo TN/A |
| Formation Type: | bon-is- | with water from a known s | TOTAL PROPERTY. | LI LES TAMO LIMA |
| Language Communication of the | rock | Required Method of Placing | | District |
| Total Well Depth From Ground Surface (ft) Casing | Diameter (in) | Conductor Pipe-Gravity Screened & Poured (Bentonite Chips) | Conductor Pipe- Other (Explain): | 37 |
| Lower Drillhole Diameter (in) Casing | Depth (ft.) | Sealing Materials | | |
| 573 | l D | Neal Cement Grout | Con | crete |
| | | Sand-Cement (Concre | te) Grout Ben | tonite Chips |
| Was well annular space grouted? Yes | No Unknown | For Monitoring Wells and Mo | onitoring Well Barehole. | s Only |
| If yes, to what depth (feet)? Depth to Wa | iter (feet) | Bentonite Chips | Bentonite - | Cement Grout |
| | | Granular Bentonite | Bentonite - | Sand Slurry |
| 5. Material Used to Fill Well / Drillhole | Market State | | lo. Yards, Sacks Seala | |
| the means the color of a series in the first through the first through the color of | | | Valume (circle one) | Mud Weight |
| Pentonile- | Granular | Surface () | 3/6 | |
| | | | | |
| 6. Comments | | | TOX PORTE AT LITTLE TO | |
| Jacobbean or Accom processed the form verifying the we | d on-site envi | ronmental as as | o bcontractor f | oAlcom and Signe |
| 7. Supervision of Work | of Jon Dec. all | J. J | DNR | Use Only |
| Name of Person or Firm Doing Filling & Sealing L | | illing & Sealing or Verification | Date Received | Noted By |
| Onsite environmental | (mm/dd/) | (MM) 03/03/2020 | | |
| Street or Route | | elephone Number | Comments | |
| POBOX 280 | | (LOS) 837-8992 | | |
| PO BOX 280 Sun Prairie W | ZIP Code | Signature of Person Deing V | Vork | Date Signed |
| Junfrairie W | 1 53590 | World Fin | | 3-3-20 |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

Route to DNR Bureau:

| Verification Only of Fill and Seal | Drinking Water | Watershed/Wastewate | Remediation/Redevelopment |
|--|---|--|------------------------------------|
| Vermouten ein jerrin und eeur | Waste Manageme | nt Other: | |
| 1. Well Location Information | Harrison State No. | 2. Facility / Owner Information | n |
| County WI Unique Well # of | Hicap # | Facility Name | |
| Manifola (SB-35/TW- | 35 | | |
| 1 10000 1= - | ormat Code Method Code | Facility ID (FID or PWS) | |
| N | DDD GPS008 | | |
| | SCR002 | License/Permit/Monitoring # | |
| W | DDM DOTHOUS | | |
| 1/4 1/4 Section | Township Range E | Original Well Owner | |
| or Gov't Lot# | N L W | Present Well Owner | |
| Well Street Address | | resent wen owner | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present Owner | |
| Maritowo C | 54220 | | |
| Subdivision Name | Lol# | City of Present Owner | State ZIP Code |
| | Lot II | | |
| Reason for Removal from Service WI Unique | e Well # of Replacement Well | 4. Pump, Liner, Screen, Cas | ing & Sealing Material |
| | 起 | Pump and piping removed? | Yes No NA |
| 3. Filled & Sealed Well / Drillhole / Bore | | Liner(s) removed? | Yes No NA |
| Monitoring Well Original Cons | struction Date (mm/dd/yyyy) | Liner(s) perforated? | Yes No N/A |
| Water Well | 114/2018 | Screen removed? | Yes No N/A |
| If a Well Cor | struction Report is available, | Casing left in place? | Yes VNo N/A |
| Borehole / Drillhole please attac | n. | Was casing cut off below surface | |
| Construction Type | | Did sealing material rise to surfa | |
| V Drilled Driven (Sandpoint) | Dug | Did material settle after 24 hours | |
| Other (specify) 4 | | If yes, was hole retopped? If bentonite chips were used, we | Yes No N/A |
| Formation Type: | | with water from a known safe so | |
| Unconsolidated Formation | Bedrock | Required Method of Placing Sealin | g Material |
| Total Well Depth From Ground Surface (ft) C | asing Diameter (in.) | Conductor Pipe-Gravity | Conductor Pipe-Pumped |
| | 0.75 | Screened & Poured (Bentonite Chips) | Other (Explain): |
| Lower Drillhole Diameter (in) | asing Depth (ft.) | Sealing Materials | |
| | 10 | Neat Cement Grout | Concrete |
| | | Sand-Cement (Concrete) Gre | out Bentonite Chips |
| Was well annular space grouted? | es No Unknown | For Monitoring Wells and Monitons | ng Well Boreholes Only |
| If yes, to what depth (feet)? Depth to | o Water (feet) | Bentonite Chips | Bentonite - Cement Grout |
| | | Granular Bentonite | Bentonite - Sand Slurry |
| 5. Material Used to Fill Well / Drillhole | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | From (ft.) To (ft.) No Ya | rds, Sacks Sealant or Mix Ratio or |
| | 1 14 / | | olume (circle one) Mud Weight |
| 73 | stonik - (oranular | Surface 10 | 314 |
| | | | |
| 6. Comments | CONTRACTOR OF THE PARTY OF THE | A DESCRIPTION OF THE PARTY OF T | APP CONTRACTOR OF STREET |
| Jundo near of A Ecom observed | onsiteenuronmenta | 1 as a subcomractor to. | Aecom and signed the form |
| Ventying the well remove | land Sealing | | 5050 |
| 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing | License # Date of F | illing & Sealing or Verification Date | DNR Use Only Received Noted By |
| Onsite environmental Sonice. | | - 1 | |
| Street or Route | | | ments |
| PO BOX 280 | | (608) 837-8992 | |
| CityC O. sala | State ZIP Code | Signature of Rerson Dorng Work | Date Signed |
| Sun Prairie | MI 23240 | Cololokur | 3.4.20 |
| | | 1 | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

Route to DNR Bureau:

| Verification Only of Fill and Seal | Drinking Water | Watershed/Wast | ewater Re | mediation/Redevelopment |
|--|--------------------------|---|------------------------|--|
| | Waste Managem | ent Other: | | |
| 1. Well Location Information | | 2. Facility / Owner Inform | nation | A STATE OF THE PARTY OF THE PAR |
| County WI Unique Well # of | Hicap # | Facility Name | | |
| Removed Well SB 39 / 1 w - 29 | | | | |
| 1901 10000 | Code Method Code | Facility ID (FID or PWS) | | |
| Latitude / Longitude (see instructions) Format | Topenne | | | |
| N 🔲 🗆 | SCR002 | License/Permit/Monitoring # | | |
| w 🔲 | DM DTH001 | | | |
| 14/14 Section Town | nship Range E | Original Well Owner | | |
| or Gov't Lot# | N v | | | |
| Well Street Address | | Present Well Owner | | |
| DON 10th 1110 Passalo St | | | | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present O | wner | |
| Manton | 54220 | | | |
| Subdivision Name | Lot# | City of Present Owner | Stat | e ZIP Code |
| | | | | Total T. 2010 S. C. Sales |
| Reason for Removal from Service WI Unique Well | # of Replacement Wel | 4. Pump, Liner, Screen, | | principal principal principal |
| | | Pump and piping removed | 3 | Yes No NA |
| 3. Filled & Sealed Well / Drillhole / Borehole | | Liner(s) removed? | | Yes No NA |
| Monitoring Well Original Construction | n Date (mm/dd/yyyy) | Liner(s) perforated? | | Yes No N/A |
| | 4/2018 | Screen removed? | | Yes No N/A |
| Water Well If a Well Construction | on Report is available, | — Gasing left in place? | | Yes No N/A |
| Borehole / Drillhole please attach. | | Was casing cut off below a | | Yes No N/A |
| Construction Type. | | Did sealing material rise to | | Yes No NA |
| Drilled Driven (Sandpoint) | Dug | Did material settle after 24 | | Yes WNo N/A |
| Other (specify): 4 | | If yes, was hole retopp | | Yes No N/A |
| Formation Type: | | If bentonite chips were use with water from a known s | | Yes YNo NA |
| Unconsolidated Formation Bedro | ick | Required Method of Placing | | |
| leading . | Diameter (in.) | Conductor Pipe-Gravity | | Pumped |
| ACCOUNT OF THE P. CO. | 2,75 | Screened & Poured | Other (Explain): | 20 IN SOME PRODUCTS |
| | | (Bentanite Chips) | Other (Explain). | |
| Lower Drillhole Diameter (in) Casing I | Depth (ft.) | Sealing Materials | | |
| | 10 | Neat Cement Grout | | crete |
| Was well annular space grouted? Yes | No Dunknow | Sand-Cement (Concret | e) Grout | tonite Chips |
| N 77/ | based hours | For Monitoring Wells and Mo | | |
| If yes, to what depth (feet)? Depth to Water | er (feet) | Bentonite Chips | Bentonite - | Cement Grout |
| | | Granular Bentonite | Bentonite - | Sand Slurry |
| 5. Material Used to Fill Well / Drillhole | | From (fl.) To (ft.) | lo. Yards, Sacks Seala | |
| A STATE OF THE STA | lnc | 6 6 | Volume (circle one) |) Mud Weight |
| Besto le - Gra | and all | Surface 10 | 5 105 | |
| | | | | |
| 6. Comments | ALE PART | | A RESIDENCE OF | Elizabeth to all |
| JEAN DUIDAG A SCAM ABSELVED | on site envira | nmental as a subcon | tracter to Asc | nom and sisned the |
| 7. Supervision of Work | wal and sea | ling | | |
| | | Filling & Sealing or Verification | DNR Date Received | Use Only Noted By |
| | ense # Date of (mm/do | /4/2/ | Date Received | INOTEO DY |
| Onsite environmenta / Street or Route | (minute | Tolophone Number | Comments | |
| | | (608) 837-8992 | Comments | |
| Po Box 280 | ZIP Code | Signature of Ferson Doing V | Vork | Date Signed |
| Sunfraine U | 53590 | Wall Or | | 3.4.20 |
| - Southautic Di | 1 0 03 .0 | 1 100011100 | | 1/1 |

| dnr.wi.gov | | vveil / Drillnole / Borehole Form 3300-005 (R 4/2015) | Filling & Sealing Repor |
|--|---|--|--|
| Notice: Completion of this report is required by chs. accordance with chs. 281, 289, 291-293, 295, and 29 for up to one year, depending on the program and corpurpose. Return form to the appropriate DNR office a | 9, Wis. Stats., failure to aduct involved. Persona | 293, 295, and 299, Wis. Stats., and chs. file this form may result in a forfeiture of the identifiable information on this form is ons on reverse for more information. | NR 141 and 812, Wis. Adm. Code between \$10-25,000, or imprisonme |
| | Drinking Water | WatershedWastewater | Remediation/Redevelopmen |
| Verification Only of Fill and Seal | Waste Manageme | | V Tremediation redevelopmen |
| 1. Well Location Information | **vaste intallageme | 2. Facility / Owner Information | |
| | ficap# | Facility Name | |
| Martouce SB-43/TW-43 | | Faults III (FID - DIAID) | |
| Latitude / Longitude (see instructions) Formal | | Facility ID (FID or PWS) | |
| N D | GPS008 | License/Permit/Manitoring # | |
| w | DDM TOTHOUT | | |
| Y. 1 Y. Section Tow | mship Range E | Original Well Owner | |
| ar Gav't Lot# | N Dw | And the state of t | |
| Well Street Address | 21 | Present Well Owner | |
| 200 N. 10th HID Buffalo | St. | | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present Owner | |
| Magitonos | 54220 | City of Present Owner | Stale ZIP Code |
| Subdivision Name | Lot# | City of Frage Council | Otomo ILII OSGE |
| Reason for Removal from Service Wi Unique Wel | # of Replacement Well | 4. Pump, Liner, Screen, Casing | (|
| | | Pump and piping removed? | Yes No N |
| 3. Filled & Sealed Well / Drillhole / Borehole | | Liner(s) removed? Liner(s) perforated? | Yes No N |
| Monitoring Well | on Date (mm/dd/yyyy) | Screen removed? | Tyes No N |
| Water Well | 14/2018 | Casing left in place? | TYES THE TN |
| | tion Report is available | Was casing cut off below surface? | Yes QNo DN |
| Construction Type | | Did sealing material rise to surface? | |
| Porilled Doven (Sandpoint) | Dug | Did material settle after 24 hours? | Fives Tako Fin |
| | LJoug | If yes, was hole retopped? | Tyes TNo TN |
| Other (specify) Formation Type | | If bentonite chips were used, were the property of the prop | |
| | | with water from a known safe source | |
| Unconsolidated Formation Bedi | 21628 | Required Method of Flacing Sealing M Conductor Pipe-Gravity Cor | atenar nductor Pipe-Pumped |
| Total Well Depth From Ground Surface (fl.) Casing | Diameter (in) | Screened & Poured Com | AND THE PROPERTY OF THE PROPER |
| 10 | 0.75 | (Bentonite Chies) | ner (Explain) |
| | Depth (ft.) | Sealing Materials | T |
| 0.75 | 10 | Neat Cement Grout | Congrete |
| Vias well annular space grouted? Yes | No Dunknow | Sand-Cement (Concrete) Grout | Bentonite Chips |
| If yes, to what depth (feet)? Depth to Wa | ter (leet) | For Monitoring Wells and Monitoring Vi | Bentanite - Cement Grout |
| Tyes to will deput from | in limer. | lastadori laren | |
| | | Granular Benjunite | Bentonite - Sand Slurry Sacks Sealant or Mix Ratio or |
| 5. Material Used to Fill Well / Driffhole | | | re (circle one) Mud Weight |
| Hestor | HE. | Surface 10 314 | |
| | | | - |
| E / Commence (to | | | |
| Jacob Dean of Aform observand signed the form verifying | of onsite envi | ronnuntal as a subcan | tractor to Azcom |
| 7. Supervision of Work | THE WELL TEN | ova land really. | DNR Use Only |
| 0 1 1 | | Filling & Sealing or Verification Date Re | |
| Unsite enummental | (mm/di | dryyyy) 03/03/2020 | |
| POBUX 280 | | (608) 837-8992 (Commer | TES |
| State Command | e ZIF Code | Signalare of Person Bong Work | Date Signed |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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 Manageme | nt Other: | |
| 1. Well Location Information | | 2. Facility / Owner Information | |
| County WI Unique Well # of Removed Well | Hicap # | Facility Name | |
| martown SB-11/TW-11 | | Facility ID (FID or PWS) | *** |
| Latitude / Longitude (see instructions) For | mat Code Method Code | | |
| N | DD GP5000 | License/Permit/Monitoring # | |
| W | DDM OTH001 | | |
| 1/2 1 1/2 Section | Township Range E | Original Well Owner | |
| or Gov't Lot # | N w | | · · · · · · · · · · · · · · · · · · · |
| Well Street Address | ile St. | Present Well Owner | |
| 1110 5 Buff | Well ZIP Code | Mailing Address of Present Owner | |
| Well City, Village or Town Man 1000 | SAZ 2-0 | - Andrew Constitution Constitution of the Cons | |
| Subdivision Name | Lot# | City of Present Owner | State ZIP Code |
| Reason for Removal from Service WI Unique | Well # of Replacement Well | 4. Pump, Liner, Screen, Casing & | Sealing Material |
| | | Pump and piping removed? | Yes No N/A |
| 3. Filled & Sealed Well / Drillhole / Boreh | | Liner(s) removed? | Yes No N/A |
| Monitoring Well Original Constr | uction Date (mm/dd/yyyy) | Liner(s) perforated? Screen removed? | Yes No N/A |
| Water Well | 119/2018 | Casing left in place? | Yes ONO NA |
| Borehole / Drillhole If a Well Const | ruction Report is available, | Was casing cut off below surface? | TYES TONO TIN/A |
| Construction Type: | | Did sealing material rise to surface? | TYES YNO THIA |
| V Drilled Driven (Sandpoint) | Dug | Did material settle after 24 hours? | Yes Yo NA |
| Other (specify): 4 | | If yes, was hole retopped? | Yes No N/A |
| Formation Type: | | If bentonite chips were used, were they with water from a known safe source? | hydrated Yes No N/A |
| Unconsolidated Formation | edrock | Required Method of Placing Sealing Mate | rial |
| Total Well Depth From Ground Surface ft.) Cas | ing Diameter (in) | Conductor Pipe-Gravity Condu | ictor Pipe-Pumped |
| 1 = | 0.75 | Screened & Poured Other | (Explain): |
| Lower Drillhole Diameter (in Cas | ing Depth (ft.) | Sealing Materials | |
| 0.15 | 10 | Neat Cement Grout | Concrete |
| Was well annular space grouted? | s V No Unknown | Sand-Cement (Concrete) Grout | Bentonite Chips |
| | | For Monitoring Wells and Monitoring Well | S at the description ration at |
| If yes, to what depth (feet)? Depth to | Water (feet) | | Bentonite - Cement Grout |
| | | The state of the s | Bentonite - Sand Slurry |
| 5. Material Used to Fill Well / Drillhole | | | circle one) Mix Ratio or Mix Ra |
| Bentonile- | Granular | Surface 10 316 | |
| research and the second and the seco | | | |
| 6. Comments | 100 ST 100 ST 100 ST | | |
| the form ver. Pully the w | ansite emmanum | entalias a subcontractor - | to Accom and signed |
| the form ver Pulling the w | ell remains and | sealing. | DNO II O-I |
| 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing | License # Date of F | Filling & Sealing or Verification Date Receive | DNR Use Only ved Noted By |
| On Site Invironmental Services Street or Route | (mm/dd/ | The state of the s | DECEMBER TAKE |
| Street or Route | | Telephone Number Comments | |
| PO BOX 280 | | (608) 837-8992 | |
| | VI 53590 | Signature of Person Doing Work | Date Signed |
| ONIT INITE | 1 555 15 | Je Je Je Je | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

| | Route to DNR Bureau: | | |
|--|--|--|--|
| Verification Only of Fill and Seal | Drinking Water | Watershed/Wastewater | Remediation/Redevelopment |
| | Waste Manageme | ent Other: | |
| 1. Well Location Information | ENGINEER PROPERTY. | 2. Facility / Owner Information | · 阿尔内国络 (75.072 福田) |
| County WI Unique Well # of | Hicap # | Facility Name | |
| M. L. Removed Well | The state of the s | A Contract of the Contract of | |
| Maritowoc SB14/TW-14 | | Facility ID (FID or PWS) | |
| Latitude / Longitude (see instructions) Fo | mat Code Method Code | , | |
| N | DD SCR002 | License/Permit/Monitoring # | E-14-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4 |
| · v | DDM DTH001 | | |
| V ₄ I V ₄ Section | Township Range E | Original Well Owner | |
| or Gov't Lot # | N Dw | | |
| Well Street Address | N L | Present Well Owner | |
| 1110 S. Buffalo | 51. | | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present Owner | |
| Maritowoo | 54220 | | |
| Subdivision Name | Lot# | City of Present Owner | State ZIP Code |
| | | | |
| Reason for Removal from Service WI Unique | Well # of Replacement Well | 4. Pump, Liner, Screen, Casing | & Sealing Material |
| | | Pump and piping removed? | Yes No N/A |
| 3. Filled & Sealed Well / Drillhole / Borel | nole Information | Liner(s) removed? | Yes No N/A |
| Original Const | ruction Date (mm/dd/yyyy) | Liner(s) perforated? | Yes No N/A |
| I VI MONIOTINO WEIL | 5/2018 | Screen removed? | Yes No N/A |
| Water Well | | Casing left in place? | Yes No NA |
| Borehole / Drillhole please attach | struction Report is available, | Was casing cut off below surface? | Tyes Tho TN/A |
| Construction Type. | | Did sealing material rise to surface? | Tyes PNo TN/A |
| Driven (Sandpoint) | Dug | Did material settle after 24 hours? | Yes No NA |
| Other (specify). 4 | | If yes, was hole retopped? | Yes No N/A |
| | | If bentonite chips were used, were th | |
| Formation Type: | | with water from a known safe source | I have been been |
| | Bedrock | Required Method of Placing Sealing Ma | |
| Total Well Depth From Ground Surface (ft) Ca | sing Diameter (in.) | | ductor Pipe-Pumped |
| No. | 0.75 | Screened & Poured Other | er (Explain): |
| Lower Drillhole Diameter (in Ca | sing Depth (ft.) | Sealing Materials | |
| 3 11 | 10 | Neat Cement Grout | Concrete |
| | | Sand-Cement (Concrete) Grout | Bentonite Chips |
| Was well annular space grouted? | s No Unknown | For Monitoring Wells and Monitoring W | ell Boreholes Only |
| If yes, to what depth (feet)? Depth to | Water (feet) | Bentonite Chips | Bentonite - Cement Grout |
| | | Granular Bentonite | Bentonite - Sand Slurry |
| 5. Material Used to Fill Well / Drillhole | OF THE STATE OF THE STATE OF | No Varie | Sacks Sealant or Mix Ratio or |
| | TREE ALIENS AND THE | | e (circle one) Mud Weight |
| Kery | nte-Granular | Surface 10 316 | |
| | | | |
| 6. Comments | STATE OF THE PARTY | | THE RESERVE TO STATE OF THE PARTY. |
| JAAA DIAN OF AFIAM ON COORD | onsile rouronwo | ntal as a cub/contractor to | Learn and Sinned the |
| From you Fring the well of | cmaraland Scali | 19- | recont on onlying the |
| 6. Comments Jacob Dian of Aziom, observed Form Vin Fling the well for 7. Supervision of Work | | V TO CONTRACT OF THE PARTY OF T | DNR Use Only |
| Name of Person or Firm Doing Filling & Sealing | License # Date of F | Filling & Sealing or Verification Date Rec | eived Noted By |
| Onsite Environmental Service | (mm/dd/ | | |
| Street or Route | | Telephone Number Comment | 5 |
| PO BOX 280 | | (608) 837-8992 | |
| City Constant | State ZIP Code | Signature of Person Doing Work | Date Signed |
| Sin Prairie | WI 53590 | Goldber | 3-3-20 |
| | | ar . | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

age 1 of 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.

| Waste Management | N/A N/A N/A | | |
|--|--|--|--|
| County Will Unique Well # of Removed Well Latitude / Longitude (see Instructions) N DD GPS008 SCR002 OTH001 OTH001 Original Well Owner Well City, Village or Town Original Well owner Well City of Present Owner City of Present Owner A. Purnp, Liner, Screen, Casing & Sealing Material Purnp and piping removed? Ves No S. Filled & Sealed Well / Drillhole / Borehole Information Original Construction Date (mm/dd/yyyy) Nonitoring Well Water Well Water Well Will Construction Report is available. | N/A N/A | | |
| Removed Well Part | N/A N/A | | |
| Latitude / Longitude (see Instructions) Format Code GPS008 SCR002 W DDM GOTH001 Val / 2 Section Township Rangs E Original Well Owner or Gov'l Lot # Well Street Address Well City, Village or Town Well City, Village or Town Subdivision Name Well ZIP Code Subdivision Name Well Unique Well # of Replacement Well Reason for Removal from Service Will Unique Well # of Replacement Well A Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No Simple Sealed Well / Drillhole / Borehole Information Water Well If a Well Construction Benoft is available. Well Construction Report is available. | N/A N/A | | |
| SCR002 OTH001 Screen Screen Screen Screen State Screen State Screen Scr | N/A N/A | | |
| Well Street Address Well City, Village or Town Well ZIP Code Subdivision Name Well ZIP Code Lot # City of Present Owner City of Present Owner State ZIP Code A. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No Iner(s) removed? Liner(s) perforated? Well ZIP Code A. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No Liner(s) perforated? Yes No Water Well Water Well If a Well Construction Report is available. | N/A N/A | | |
| Well City, Village or Town Well ZIP Code Subdivision Name Well ZIP Code Subdivision Name Lot # City of Present Owner State ZIP Code A: Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No Liner(s) removed? Yes No Liner(s) perforated? Water Well If a Well Construction Report is available. | N/A N/A | | |
| Subdivision Name State ZIP Code | N/A N/A | | |
| Subdivision Name State ZIP Code | N/A N/A | | |
| Reason for Removal from Service WI Unique Well # of Replacement Well 4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Viginal Construction Date (mm/dd/yyyy) Viginal Constru | N/A N/A | | |
| 3. Filled & Sealed Well / Drillhole / Borehole Information Monitoring Well | N/A N/A | | |
| Pump and piping removed? Yes No | N/A N/A | | |
| State Construction Constructio |] N/A | | |
| Monitoring Well | med . | | |
| Water Well If a Well Construction Report is available. Casing left in place? Yes Vivo | | | |
| If a Well Construction Report is available | N/A | | |
| | TN/A | | |
| Construction Type Did sealing material rise to surface? Yes No | N/A | | |
| ✓ Drilled | Did material settle after 24 hours? Yes No N/A | | |
| Other (specify) 4 If yes, was hole retopped? | If yes, was hole retopped? | | |
| Formation Type: If bentonite chips were used, were they hydrated with water from a known safe source? Yes No | TN/A | | |
| Unconsolidated Formation Bedrock Required Method of Placing Sealing Material | and . | | |
| Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped | | | |
| O.75 Screened & Poured (Bentonite Chips) Other (Explain): | | | |
| Lower Drillhole Diameter (in) Casing Depth (ft.) Sealing Materials | | | |
| Neal Cement Grout Concrete | | | |
| Was well annular space grouted? Yes V No Unknown Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? | | | |
| For Monitoring Wells and Monitoring Well Boreholes Unly | | | |
| | | | |
| Granular Bentonite Bentonite - Sand Slurry 5 Marie Used to Fill Mail (Drillbale) | or | | |
| 5. Material used to Fill Well / Drillhole Prom (it.) Volume (circle one) Mud Weigh | | | |
| Bestonite - Granular Surface 10 316 | | | |
| | | | |
| 6. Comments | 253 | | |
| Jacob Mean of Aziom objected on-site environmental as a subcontractor to Aziom and signed the form you know the well remove land sealing | | | |
| 7. Supervision of Work DNR Use Only | | | |
| Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By | | | |
| (mm/dd/yyyy) (3/23/222 | | | |
| Street or Route Telephone Number Comments | | | |
| PO BOX 280 (608) 837-8492 | | | |
| Sun Prairic State State State State Signature of Person Doing Work Date Signed 3-3-20 | | | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

age 1 of 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.

Route to DNR Bureau;

| Verification Only of Fill and S | | Watershed/Wastewater | Remediation/Redevelopment |
|--|---|--|------------------------------|
| | Waste Manageme | | |
| 1. Well Location Information | | 2. Facility / Owner Information | |
| County WI Unique Well Removed Well | I # of Hicap # | Facility Name | |
| 0 | -7.7 | | |
| 110111000 | | Facility ID (FID or PWS) | |
| Latitude / Longitude (see instructions) | Format Code Method Code | | |
| | N DD GPS008 | License/Permit/Monitoring # | |
| | W DDM DTH001 | License/Fermionormoning in | |
| | | | |
| 1/4 / 1/4 Section | on Township Range E | Original Well Owner | |
| or Gov't Lot# | N Dw | | |
| Well Street Address | | Present Well Owner | |
| | < 1 | | |
| 1110 S Buffelo | OF | Mailing Address of Present Owner | |
| Well City, Village or Town | Well ZIP Code | Intaining Address of Fresent Owner | |
| Maritono | 54220 | | |
| Subdivision Name | Lot # | City of Present Owner | State ZIP Code |
| | | | |
| Reason for Removal from Service WI | Unique Well # of Replacement Well | 4. Pump, Liner, Screen, Casing & | Sealing Material |
| Reason for Removal Horn Service | Offique Well # Of Neplacement Well | Pump and piping removed? | Yes No N/A |
| | | Liner(s) removed? | Tyes TNo TN/A |
| 3. Filled & Sealed Well / Drillhole / | | Liner(s) perforated? | |
| Monitoring Well Original | Construction Date (mm/dd/yyyy) | The state of the s | Yes No NA |
| | 11/16/2018 | Screen removed? | Yes No N/A |
| Water Well | | Casing left in place? | Yes Lino N/A |
| | ell Construction Report is available, attach. | Was casing cut off below surface? | TYES TONO TINA |
| Loonal Product | attacri. | Did sealing material rise to surface? | |
| Construction Type | | A TOWN IN THE WAY TOWN IN THE | |
| V Drilled Driven (Sandpoi | int) Dug | Did material settle after 24 hours? | Yes UNO N/A |
| Other (specify) 4 | | If yes, was hole retopped? | Yes No N/A |
| | | If bentonite chips were used, were the | |
| Formation Type: | _ | with water from a known safe source? | |
| J Unconsolidated Formation | Bedrock | Required Method of Placing Sealing Mate | erial |
| Total Well Depth From Ground Surface (ft |) Casing Diameter (in.) | Conductor Pipe-Gravity Cond | uctor Pipe-Pumped |
| | 0.75 | Screened & Poured Other | r (Explain): |
| | 10 | (Bentonite Chips) | (Explair). |
| Lower Drillhole Diameter (in) | Casing Depth (fl.) | Sealing Materials | |
| | 10 | Neat Cement Grout | Concrete |
| | | Sand-Cement (Concrete) Grout | Bentonite Chips |
| Was well annular space grouted? | Yes V No Unknown | | AND THE PERSON NAMED IN |
| | | For Monitoring Wells and Monitoring Well | Il Boreholes Only |
| If yes, to what depth (feet)? | epth to Water (feet) | Bentonite Chips | Bentonite - Cement Grout |
| | | Granular Bentonite | Bentonite - Sand Slurry |
| The second secon | THE RESIDENCE | No Varde S | acks Sealant or Mix Ratio or |
| 5. Material Used to Fill Well / Drillh | noie | | (circle one) Mud Weight |
| Peak | onite-Granular | Surface (O 31 | |
| | 2.70(9.73) | 3 | |
| 2 20491 | 1010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | | |
| | SHIP THE RESERVE THE SHIP SHIP SHIP | | Mark Color Color Color Color |
| 6. Comments | 1 1 6 6 1 6 1 6 | The second secon | |
| Valobulanof Azcomi or | served on the envi | conmental as a subconti | actor to 48 com ino |
| signed the Form | von tying the well | remental as a subconti | |
| 7. Supervision of Work | | | DNR Use Only |
| Name of Person or Firm Doing Filling & Si | | illing & Sealing or Ventication Date Recei | ived Noted By |
| on site environmental | (mm/dd/) | 1999) 03/02/2020 | |
| Street or Route | [7 | elephone Number Comments | |
| 10 Box 280 | | 608 837 8992 | |
| City | State ZIP Code | Signature of Berson Doing Work | Date Signed |
| Sin Prain'e | WI 53590 | asself there | 32-20 |
| WII GIAGIT | 15. 330.0 | Muer Our | 13680 |
| | | | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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 | | rinking Water | | Watershed/Wa | stewater | Remedia | ation/Redeve | lopment |
|--|--|--|-------------------|--------------------|--|-------------------|--------------------------|--------------|----------------------|
| | | L W | aste Manageme | _ | Other: | | | | |
| 1. Well Location Information | | | | - | / Owner Info | rmation | 4-14-18 | | |
| County Wi Unio | | Hicap # | | Facility Nan | ne | | | | |
| Martonoc SB-4 | 5/TW-45 | | | English ID (| FID or PWS) | | | | |
| Latitude / Longitude (see instruction | ns) Format | Code | Method Code | Pacinty ID (| FID OF FWS) | | | | |
| | N | OC. | GPS008 | License/Par | rmit/Monitoring # | | | | |
| | w 🗀 : | DDM | SCR002 OTH001 | Licenserie | THE WOULDNING W |) | Car New York IV | | |
| %/% % or Gov't Lot # | Section Tow | mship | Range E W | Original We | eli Owner | | | | |
| Well Street Address | | N | | Present We | ell Owner | | | | |
| and the second s | Buffalo St. | | | | | | | | |
| Well City, Village or Town | | Well | ZIP Code | Mailing Add | dress of Present | Owner | | | |
| manitowa |) C | 5 | 1226 | 07 15 | | | Tay : | Taran | |
| Subdivision Name | | Lot# | | City of Pres | sent Owner | | State | ZIP Code | |
| Reason for Removal from Service | WI Unique Wel | # of Re | placement Well | | | i, Casing & Se | | property. | |
| | | | | | nd piping remove | d? | - Learning | Yes No | Second Control |
| 3. Filled & Sealed Well / Drill | | | | | removed? | | frament, processed | Yes No | (ments) |
| Monitoring Well | Original Construction | on Date | (mm/dd/yyyy) | | perforated? | | futures! princip | Yes No | Envisori passents |
| Water Well | 11/15 | 5/2 | 018 | | emoved? eft in place? | | 1 | Yes No | house |
| Borehole / Drillhole | If a Well Construct | ion Repo | ort is available, | | | aude ee 7 | bead | Yes WNo | Broad |
| / | please attach. | | | | ing cut off below | | | Yes UNO | Service). |
| Construction Type: | | Did sealing material rise to surface? Did material settle after 24 hours? Yes No N/A | | | | | | | |
| land land | Sandpoint) | Dug | 3 | | s, was hole retor | | lament present | Yes No | parameter . |
| Other (specify): 4 | | | | 10000 | | sed, were they h | vdrated | 7 | |
| Formation Type: | | | | DA SOLD TO SOLD TO | er from a known | | bossed | Yes V No | N/A |
| Unconsolidated Formation | Bedro | | | | | Sealing Materia | | | |
| Total Well Depth From Ground Sur | face (ft) Casing | Diamete | r (in.) S | Scree | uctor Pipe-Gravi ened & Poured lonite Chips) | Other (E | or Pipe-Pump xplain): | ed | |
| Lower Drillhole Diameter (in.) | Casing | Depth (fi | 1) | Sealing Ma | - | | | | |
| 0.7 | | | | Neat | Cement Grout | [| Concrete | | |
| | | E / | | | -Cement (Concre | ete) Grout | Bentonite | Chips | |
| Was well annular space grouted? | Yes | V No | Unknown | For Monito | ring Wells and M | Ionitoring Well B | oreholes Only | r, | |
| If yes, to what depth (feet)? | Depth to Wat | er (feet) | | Bento | onite Chips | Ber | tonite - Ceme | ant Grout | |
| | | | | Gran | ular Bentonite | Ber | tonite - Sand | Sturry | |
| 5. Material Used to Fill Well | / Drillhole | | | From (ft.) | To (ft) | No. Yards, Sack | | Mix Ra | |
| | | anu br | - Cally in the | Surface | 10 | Volume (circ | ale one) | Mud W | engint |
| | Sure Di | and at | | Jurince | | 3 (0) | | | |
| Manage and the same and the sam | | | | | | | | | |
| 6. Comments Vacob Ocan of Alcor the Form Ven Fling 7. Supervision of Work | n observed | m- | SHE ENVI) | anmenta | I as a sub | con tracter | to Ason | m and | Sano |
| the form wentering | the well | 10m | wal and | sealing | (1 40 400 | | 1011101 | · / uno | 201 40 |
| 7. Supervision of Work | The state of the s | | | | | | DNR Use | Only | |
| Name of Person or Firm Doing Fill | ing & Sealing Lik | ense # | Date of f | -Illing & Sealir | ng or Verification | Date Received | | Noted By | |
| ons to Environment | al Senices | | | (yyy) 03/0 | | | | | |
| Street or Route | | | | (SE) ST | | Comments | | | |
| POBOX 280 | Chie | 710 | Code | | 37 - 8992 of Person, Dojag | | In. | te Signed | |
| Sun Praint | State | | 3590 | orginature (| sul the | in | | 3-2-2 | 2 |
| Joint Isalii | , W | | , 55 . 5 | 1 | 04/1000 | | | 000 | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

Route to DNR Bureau:

| Verification Only of Fill and Seal | Drinking Water | Watershed/Wastewate | Remediation/Redevelopment |
|--|-----------------------------|---|--|
| | Waste Managemen | Other: | |
| 1. Well Location Information | | 2. Facility / Owner Information | n |
| County WI Unique Well # of | | Facility Name | |
| Manitows C SB-58/TU-58 | | F | |
| Latitude / Longitude (see instructions) Form | nat Code Method Code | Facility ID (FID or PWS) | |
| PRINTER AND AND THE ADMINISTRATION OF THE PRINTER AND ADMINISTRATION OF THE PRINTER ADMINISTRATION OF THE PRINTER AND ADMINISTRATION OF THE PRINTER AND ADMINISTRATION OF THE PRINTER ADMINISTRATION OF THE PRINTER ADMINISTRATION OF THE PRINTER AN | DD GPS008 | | |
| | DDM SCR002 | License/Permit/Monitoring # | |
| 1/4 1/4 Section | Township Range R | Original Well Owner | |
| or Gov't Lot # | N w | | |
| Well Street Address | Cr I CI | Present Well Owner | |
| | Ffalo St. | Mailing Address of Present Owner | |
| Well City, Village or Town | Well ZIP Code 54226 | Mailing Address of Fresent Owner | |
| man towoc | | City of Present Owner | State ZIP Code |
| Subdivision Name | Lot # | | |
| Reason for Removal from Service Wi Unique | Well # of Replacement Well | 4. Pump, Liner, Screen, Casi | |
| | | Pump and piping removed? | Yes No N/A |
| 3. Filled & Sealed Well / Drillhole / Boreh | | Liner(s) removed? | Yes No N/A |
| Monitoring Well Original Constru | uction Date (mm/dd/yyyy) | Liner(s) perforated? | Yes No N/A |
| passed 11/1 | 6/2018 | Screen removed? | Yes No N/A |
| Water yven | ruction Report is available | Casing left in place? | Yes No NA |
| Borehole / Drillhole please attach. | | Was casing cut off below surface | |
| Construction Type | | Did sealing material rise to surfa | |
| Drilled Driven (Sandpoint) | Dug | Did material settle after 24 hours | Service Control Control |
| Other (specify) 4 | NAMES TO SECURITY | If yes, was hole retopped? | Yes No N/A |
| Formation Type: | | If bentonite chips were used, we with water from a known safe so | |
| Unconsolidated Formation | edrock | Required Method of Placing Sealing | g Material |
| Total Well Depth From Ground Surface (ft) Cas | ing Diameter (in) | Conductor Pipe-Gravity | Conductor Pipe-Pumped |
| 10 | 0 75 | Screened & Poured (Bentonite Chips) | Other (Explain): |
| Lower Drillhole Diameter (in.) Cas | ing Depth (ft.) | Sealing Materials | A TOTAL STATE OF THE STATE OF T |
| 0.75 | 10 | Neat Cement Grout | Concrete |
| P. I C | V 751 | Sand-Cement (Concrete) Gro | out Bentonite Chips |
| Was well annular space grouted? Yes | No Unknown | For Monitoring Wells and Monitoring | g Well Boreholes Only: |
| If yes, to what depth (feet)? Depth to | Water (feet) | Bentonite Chips | Bentonite - Cement Grout |
| | | Granular Bentonite | Bentonite - Sand Sturry |
| 5. Material Used to Fill Well / Drillhole | | | rds, Sacks Sealant or Mix Ratio or lume (circle one) Mud Weight |
| Bentonik - Caranula | ſ | · | lbs |
| 010000 | | | |
| | | | |
| 6. Comments | | | |
| Jacob Dean of Afcom observed form verifying th | on-site environme | intal as a so bon tracto | r-to A Ecom and signed th |
| 7. Supervision of Work | emplification at the | (V occiona) | DNR Use Only |
| Name of Person or Firm Doing Filling & Sealing | | HM AND 시간 - 인데리인상이에 15 HSR - 요. 프리아니스 NOV 제 - 2 | Received Noted By |
| On Site Environmental Street or Route | | (W) 03/02/2020 | |
| PO BOX 250 | | lephone Number Com | ments |
| | | Signature of Person Doing Work | Date Signed |
| | VI S3590 | bud the | 3.2.20 |
| - VI IV IMITI | Y . | Jest Will Con | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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.

| | Drinking Water | Watershed/Wast | tewater Remed | liation/Redevelopment |
|--|---------------------------|--|--|---|
| Verification Only of Fill and Seal | Waste Manageme | | Kemed | nationariedevelopment |
| d lavell la service la company | vvaste iviariageriii | l | LAWAR TO THE REST | |
| 1. Well Location Information County WI Unique Well # of | Hicap # | Facility / Owner Information Facility Name | mation | |
| Removed Well | i iloup ii | Table 1 Tallia | | |
| Maritonoc 58 64/TW-64 | | Facility ID (FID or PWS) | | |
| Latitude / Longitude (see instructions) Forma | Topenne | | | |
| N 🔲 | DD SCR002 | License/Permit/Monitoring # | | |
| w 🗆 | DDM OTHO01 | | | |
| 1/4 1/4 Section To | vnship Range E | Original Well Owner | ***** | |
| or Gov't Lot # | N Dw | | | |
| Well Street Address | 110.70 | Present Well Owner | | |
| 1110 S Buffalo | St. | | | |
| Well City, Village or Town | Well ZIP Code | Mailing Address of Present C | wner | |
| man, towar | 54220 | | | |
| Subdivision Name | Lot# | City of Present Owner | State | ZIP Code |
| | | | | West Company |
| Reason for Removal from Service WI Unique We | II # of Replacement Well | Pump, Liner, Screen, Pump and piping removed | | parties parties |
| | | Liner(s) removed? | · _ | |
| 3. Filled & Sealed Well / Drillhole / Borehole | | Liner(s) perforated? | <u></u> | Yes No NA |
| Monitoring Well Original Construct | ion Date (mm/dd/yyyy) | Screen removed? | | |
| Water Well | 2018 | Casing left in place? | | Yes PNo N/A |
| If a Well Construc | tion Report is available, | | | |
| Borehole / Drillhole please attach. | | Was casing cut off below | TOTAL COURSE OF | Yes No N/A |
| Construction Type: | process. | Did sealing material rise to | Annual Contract of the Contrac | Yes No N/A |
| ✓ Drilled Driven (Sandpoint) | Dug | Did material settle after 24 | Name and American Ame | Yes No N/A |
| Other (specify): 4 | | If yes, was hole retopp If bentonite chips were use | STATE PROPERTY. | Yes No N/A |
| Formation Type: | | with water from a known s | | Yes No N/A |
| Unconsolidated Formation Bed | rock | Required Method of Placing | Sealing Material | |
| Total Well Depth From Ground Surface (ft) Casing | Diameter (in) | Conductor Pipe-Gravity | Conductor Pipe-Pum | iped |
| 10 | 0.75 | Screened & Poured | Other (Explain): | |
| 1 - | Depth (fl.) | Sealing Materials | | |
| 0.75 | 1- | Neat Cement Grout | Concrete | o o |
| 0112 | 10 | Sand-Cement (Concre | | |
| Was well annular space grouted? Yes | No Unknow | | L-man d | |
| If yes, to what depth (feet)? Depth to Wa | tor (fant) | For Monitoring Wells and Mo | | 1.0.200 |
| if yes, to what deput (leet)? | ter (leet) | Bentonite Chips | Bentonite - Cen | |
| | | Granular Bentonite | Bentonite - San | THE RESERVE OF THE PERSON NAMED IN COLUMN 1 |
| 5. Material Used to Fill Well / Drillhole | | Fram (ft.) To (ft.) | No Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
| Benton Le | Granular | Surface 5 | 3 65 | |
| N WIEN, E | | | | |
| | | | | |
| 6. Comments | | | | |
| Jacob Deanox Ascom absorred | on-site Environ | mental as a subcontra | actor to A Ecoma | ind signed the |
| 6. Comments Jecob Branov Asom observed Communitying the rule 7. Supervision of Work | il removal an | realing | DND IIe | o Ombu |
| Name of Person or Firm Doing Filling & Sealing L | cense # Date of | Filling & Sealing or Verification | Date Received | Noted By |
| On-Site Engranmental Scrices | | (yyyy)03/02/2020 | - AND TOWNS OF THE PARTY OF THE | |
| Street or Route | | Telephone Number | Comments | |
| POBOX 280 City Stain't L | | (608) 837 8992 | | |
| City State | ZIP Code | Signature of Person Doing V | Verk ID | ate Signed |
| Son Prasnie h | 11 83590 | soul & | ar | 3-2-20 |
| | 1 000 .00 | 40-40 | | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 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 | n Only of Fill | and Seal | | to DNR Bureau Irinking Water | | Watershed/Wa | stewater [| Remedi | ation/Redevelo | pment |
|--|--|-------------------|----------------|---------------------------------|--|--|---------------------|--------------|------------------------|-------|
| _ | | | V | Vaste Manageme | ent | Other: | | | | |
| 1. Well Location | | | | | many transfer drawn drawn and with the same of | y / Owner Info | ormation | | | |
| County | Remove | ue Well # of | Hicap # | | Facility Nar | me | | | | |
| Maritowoc | SB-72 | 2/TW-72 | | | FWhite | (FID - DIVIG) | | | | |
| | de (see instruction | ns) Form | at Code | Method Code | Tracility ID (| (FID or PWS) | | | | |
| | | N | DD | GPS008 | Linenge/Re | ermit/Monitoring | H | | | |
| | | w | DDM | SCR002 | Licenserre | rminioninoning a | * | | | |
| 1/4/1/4 | 1/4 | Section T | ownship | Range T E | Original We | ell Owner | | | | |
| or Gov't Lat # | | | N | Hw | | | | | | 7/ |
| Well Street Addre | 1110 5 | N CC 1 | Cı | | Present Wi | ell Owner | | | | |
| | | . Buffalo | 1100 | | Mailing Adv | dress of Present | Owner | | | |
| Well City, Village | 1 | | 10.70000 | ZIP Code | livianing / ta | 0.000 0.1 1000110 | Owner. | | | |
| Subdivision Name | tow or | | Lot # | | City of Pres | sent Owner | | State | ZIP Code | |
| Subdivision Name | - | | Lucin | | | | | | | |
| Reason for Remo | oval from Service | WI Unique V | /ell # of Re | eplacement Well | | | n, Casing & Sea | aling Mate | erial | |
| | | | | | Pump ar | nd piping remove | ed? | | Yes No | N/A |
| 3. Filled & Sea | iled Well / Drill | hole / Boreho | le Inforn | nation | Liner(s) | removed? | | | Yes No [| N/A |
| Monitoring V | 10 | Original Constru | | | Liner(s) | perforated? | | | Yes No | N/A |
| | | 11/16 | 1201 | 8 | 100000000000000000000000000000000000000 | removed? | | V | Yes No | N/A |
| Water Well | | If a Well Constru | | | Casing I | left in place? | | | Yes No | N/A |
| Borehole / D | | please attach. | Jones I I Cp | orrib dvandbre, | Was cas | sing cut off belov | v surface? | | Yes No | N/A |
| Construction Type | e: | | | | Did seal | ling material rise | to surface? | | Yes V No | N/A |
| V Drilled | Driven (S | Sandpoint) | Du | g | Did mate | erial settle after : | 24 hours? | | Yes No | N/A |
| Other (speci | rify): 4 | | | | | es, was hole reto | | | Yes No | N/A |
| Formation Type: | | | - | | | nite chips were u ter from a known | ised, were they hyd | drated | Yes Who I | N/A |
| | ated Formation | Ве | drock | | | | g Sealing Material | Termone? | today (| |
| . Londard-March Control | From Ground Sur | face (ft.) Casin | g Diamete | er (in) | | ductor Pipe-Grav | | Pipe-Pump | ed | |
| | 10' | , , | 0.7 | | | ened & Poured | Other (Ex | olain): | | |
| Lower Drillhole Di | 10 | Casir | g Depth (f | | Sealing Ma | itonite Chips) | | | | |
| LOVE DIMINOR DI | iorricies (iii.) | 000. | 10 | | | Cement Grout | | Concrete | | |
| | | | 10 | | | d-Cement (Concr | rete) Grout | Bentonite | | |
| Was well annular | space grouted? | Yes | No | Unknown | | | Nonitoring Well Boi | _ | | |
| If yes, to what dep | pth (feet)? | Depth to W | ater (feet) | | - promoting | tonite Chips | | onite - Cem | | |
| | | | Annual Manager | | | nular Bentonite | | onite - Sand | | |
| The same of the sa | | To sympath | ABARA | | | | No. Yards, Sacks | | Mix Ratio | 101 |
| 5. Material Use | ed to Fill Well / | | 516 | | From (ft.) | | Volume (circi | | Mud Wei | |
| | | Benjarite. | Granu ! | QT . | Surface | 10 | 2 165 | | | |
| | | | | | | - | | | | |
| C C | | | | | | - | | | NAME OF TAXABLE PARTY. | 200 |
| 6. Comments | AV A S/AWA | Lean wolden | -5:10 8 | indican ma | atal as | a Subcantra | doc to AEC | oman | Sanel | the |
| Jacob bean | טרידיננטויוט | FORM | verif | ring the u | iell vew | noval and s | sealing. | | -1,11.00 | , |
| /. Supervision | 1 of Work | | | | | The Park of the Control of the Contr | | DNK Use | Only | |
| | or Firm Doing Filli A `ronment a | | License # | (mm/dd/ | | ing or Venfication | Date Received | | Noted By | |
| Street or Roule | | 1 Strik cestil | q. | | Telephone No | umber | Comments | | | |
| P.O. BOX 2 | 80 | | | | (608)8° | 37-8997 | } | | | |
| City | | Sta | | Code | Signature | of Person Doing | Work | Da | te Signed | - |
| Sin Prainte, | | h | 1 3 | 3590 | 1 | Well & | W | | 3.2-20 | |

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

age 1 of 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.

Route to DNR Bureau:

| Verification Only of Fill and Seal | Drinking Water | Watershed/Wastewate | Remediation/Redevelopment |
|--|--|--|--|
| | Waste Managemer | other: | |
| 1. Well Location Information | TO LINE TO BE A STATE OF THE ST | 2. Facility / Owner Informatio | n |
| County WI Unique Well # of | Hicap # | Facility Name | |
| Maritowoc SB-77/TW- | ורד | | |
| - 20070000 - 122 | ormat Code Method Code | Facility ID (FID or PWS) | |
| N N | DD GPS008 | | |
| | SCR002 | License/Permit/Monitoring # | |
| | DDM OTHOU | 104-1-1111-110 | |
| | Township Range E | Original Well Owner | |
| or Gov't Lot # | N LW | Present Well Owner | |
| Well Street Address | S. Buffalo St. | resent wen owner | |
| Moll City Village of Town | | Mailing Address of Present Owner | |
| Well City, Village or Town Man towo | Well ZIP Code 54220 | | |
| Subdivision Name | Lol# | City of Present Owner | State ZIP Code |
| Odbanistori Name | LOI W | | |
| Reason for Removal from Service WI Uniqu | ue Well # of Replacement Well | 4. Pump, Liner, Screen, Casi | ng & Sealing Material |
| | The state of the place of the state of the s | Pump and piping removed? | Yes No N/A |
| 3. Filled & Sealed Well / Drillhole / Bor | ehole Information | Liner(s) removed? | Yes No N/A |
| | struction Date (mm/dd/yyyy) | Liner(s) perforated? | Yes No N/A |
| | 11/16/2018 | Screen removed? | Yes No N/A |
| Water Well | nstruction Report is available. | Casing left in place? | Yes You N/A |
| Borehole / Drillhole please attac | The state of the s | Was casing cut off below surface | 7 Yes No NA |
| Construction Type. | | Did sealing material rise to surfa- | ce? Yes No N/A |
| ☑ Drilled ☐ Driven (Sandpoint) | Dug | Did material settle after 24 hours | ? Yes No N/A |
| Other (specify): 4 | | If yes, was hole retopped? | Yes No N/A |
| Formation Type: | | If bentonite chips were used, we with water from a known safe so | |
| Unconsolidated Formation | Bedrock | Required Method of Placing Sealing | |
| Total Well Depth From Ground Surface (ft.) | asing Diameter (in.) | | Conductor Pipe-Pumped |
| | 0.75 | Screened & Poured | Other (Explain): |
| Lower Drillhole Diameter (in.) | asing Depth (ft.) | Sealing Materials | |
| Cover Diminor Diameter (iii) | | Neat Cement Grout | Concrete |
| | 10 | Sand-Cement (Concrete) Gro | |
| Was well annular space grouted? | res No Unknown | | |
| If yes, to what depth (feet)? Depth | to Water (feet) | For Monitoring Wells and Monitorin Bentonite Chips | Bentonite - Cement Grout |
| in just, its initial depart (ready) | to react from | | |
| | | Granular Bentonite | Bentonita - Sand Slurry rds, Sacks Sealant or Mix Ratio or |
| 5. Material Used to Fill Well / Drillhole | | | lume (circle one) Mud Weight |
| Bentonk | - Granular | Surface D | 3 165 |
| | | | |
| | | | |
| 14 Comments | on-Site Environma | ntal as a subsanton ato | CHO ASCANO COL STONE ALTH |
| form very rying the well re | mam I and Sealing | | TO THE COLVE AND S. THEO IN |
| 7. Supervision of Work | | | DNR Use Only |
| Name of Person or Firm Doing Filling & Sealing | | | Received Noted By |
| M-Site Environmental Service | | yyy) 03/02/2020 | |
| Street or Route | T | / | ments |
| PO BUX 280 | [[| 608) 837-8992 | |
| S. On Tunha | State ZIP Code | Signature of Person Doing Work | Date Signed 3-2-20 |
| In Paine | WI 53590 | 3.2-20 | COV OUN S.C. CO |

Appendix D Data Validation Memo



Memorandum

Date: April 7, 2020

To: Lanette Altenbach, Project Manager (PG)
From: Lisa Smith, Environmental Chemist (CEAC)

Subject: Data Validation - Analytical Results for Groundwater Samples

Limited Site Investigation

Former CN Property, Manitowoc, Wisconsin

SUMMARY

Data validation was performed on the analytical results of the groundwater samples collected at the CN Manitowoc, Wisconsin site on March 18 through 20, 2020 and submitted to Pace Analytical, Green Bay for analysis. Pace processed the samples and reported the results under sample delivery group (SDG) 40205127.

The analytical data were evaluated with reference to the United States Environmental Protection Agency (USEPA) National Functional Guidelines for Superfund Organic Methods Data Review (January 2017), and National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017). The National Functional Guidelines were modified to accommodate the non-CLP methodology. Laboratory control limits and/or method criteria were used as appropriate as the basis for validation actions.

Based on the results of the validation, the data are valid as reported and may be used for decision making purpose. Some data required qualifications as discussed below and summarized in Table 1. Data validation qualifiers override any assigned laboratory data flags. Results reported below the limit of quantitation (LOQ) were qualified as estimated (J) by the laboratory; qualifications of these results were accepted by the validator, but are not shown in Table 1.

METHODS

The samples were analyzed by the methods listed below.

| Matrix | Analyte Group | Method | Number of Samples |
|-------------|---------------|------------------|--------------------------------|
| Groundwater | VOCs | SW-846 8260 | 5 samples, 2 field duplicates, |
| | | | and 1 trip blank |
| | PAHs | SW-846 8270 HIV | 14 samples, 2 field duplicates |
| | RCRA Metals | SW-846 6020/7470 | 4 samples, 1 field duplicate |
| | Arsenic | SW-846 6020 | 10 samples, 1 field duplicate |
| | Lead | SW-846 6020 | 1 sample |

REVIEW ELEMENTS

A limited data validation was performed on the samples. Quality control (QC) parameters listed below were reviewed, if applicable to the methodology.



Limited Validation

Holding Time
Method Blanks
Trip Blanks
Surrogate Recoveries
Laboratory Control Samples
Matrix Spikes/Matrix Spike Duplicates
Field Duplicates
Quantitation Limits

DISCUSSION

Sample Receipt

Samples were received at the laboratory intact, properly preserved and in good condition. The samples were received on ice.

Analyses were added to the chain of custody by the laboratory for samples 3_MW-58, 3_MW-72 and 3 MW-77 at the request of AECOM.

Holding Times

Samples were extracted and analyzed within holding times.

Method Blanks

Laboratory blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Analytes were not detected in the associated method blanks, with the exception of 1,2,4-trichlorobenzene. 1,2,4-Trichlorobenzene was detected in the method blank for batch 350835 at a concentration of 1.6 J ug/L. 1,2,4-Trichlorobenzene was not detected in the associated samples and results did not require qualification.

Trip Blanks

Trip blanks are used to assess contamination from sample shipping. One trip blank was associated with the sample shipment. Analytes were not detected in the trip blank.

Surrogate Recoveries

Surrogates are spiked into all field samples, field QC samples, and method QC samples and are used to evaluate accuracy. The surrogates are organic compounds similar to the target compounds in chemical composition and behavior in the analytical process, but are not usually found in environmental samples. Surrogates recoveries were within the laboratory specified QC limits, with the exception of the 2-fluorobiphenyl surrogate for sample 3_MW-14. The laboratory reported a 2-fluorobiphenyl surrogate recovery of 38% for sample 3_MW-14, while the acceptable recovery range is 39% to 120%. Associated PAH detects were qualified as estimated biased low (J-), and nondetects were qualified as UJ. Surrogates were diluted out for PAH sample 3_MW-58 and were not evaluated.

Laboratory Control Samples (LCSs)

LCSs are analyzed to monitor the accuracy of the analytical method independent of matrix effects. LCS recoveries and relative percent differences (RPDs) were within the laboratory specified QC limits, except as listed in the table below.



| Method (Batch) | Compound | LCS/LCSD % Recovery | Recovery Limits | Results Qualified |
|-------------------|------------------------|------------------------|--------------------|---|
| 350835 | 1,2,4-Trichlorobenzene | 57/ | 70-130 | Associated results were nondetect and qualified UJ. |
| 351002 | Benzo(b)fluoranthene | 107/106 | 54-97 | Associated detects were |
| | Indeno(1,2,3-cd)pyrene | 108/105 | 51-101 | qualified estimated biased high (J+). |

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSDs are analyzed to determine the effects of sample matrix on the measurement methodology. Extra volume was collected for sample 1_MW-10 for MS/MSD analysis. MS/MSD recoveries and RPDs were within the laboratory specified criteria.

Quantitation

Dilutions were required during analysis due to high sample concentrations. The dilutions were necessary to bring the sample concentrations within the calibration range of the instrument. In addition, some of the metals samples were diluted due to matrix interference. The limit of detections (LODs) for the metals results reported as nondetect from a dilution analyses were below the PAL, with the exception of the arsenic result for sample 1_MW-39.

Field Duplicates

Field duplicates are collected to assess the overall precision of field sampling and laboratory analysis. Two groundwater field duplicate samples were collected, and field precision is summarized below. RPDs for the field duplicate pairs were within the 30 percent limit for groundwater, or the absolute difference of the values were within ± the LOQ for values with 5 times the LOQ.

| Sample & Compound(s) | Units | LOQ (max) | Sample Concentration | Field Duplicate Concentration | RPD (%) |
|-----------------------|-------|--------------|-------------------------|----------------------------------|---------|
| 1_MW-35 and 1_MW-35D: | | | | | |
| p-Isopropyltoluene | ug/l | 2.7 | 34.5 | 31.2 | 10 |
| Toluene | ug/l | 0.9 | 0.52 J | 0.48 J | 8 |
| Acenaphthylene | ug/l | 0.027 | 0.0071 J | 0.0075 J | 5.5 |
| Anthracene | ug/l | 0.056 | 0.059 | 0.049 J | 18.5 |
| Benzo(a)anthracene | ug/l | 0.041 | 0.0093 J | 0.0081 U | |
| Benzo(b)fluoranthene | ug/l | 0.031 | 0.011 J | 0.0062 U | |
| Benzo(g,h,i)perylene | ug/l | 0.036 | 0.0088 J | 0.0073 U | |
| Pyrene | ug/l | 0.041 | 0.0076 J | 0.0082 U | |
| Arsenic | ug/l | 2 | 1.4 J | 1.6 | 13.3 |
| Barium | ug/l | 2.3 | 220 | 208 | 5.6 |
| 3_MW-27 and 3_MW-27D: | | | • | | • |
| Tetrachloroethene | ug/l | 1.1 | 1 J | 1.1 | 9.5 |
| Trichloroethene | ug/l | 1 | 0.33 J | 0.45 J | ± RL |



Validation Flags

Table 1 - Data Validation Summary of Qualified Data

| Sample ID | Analyte | Units | Validation Qualifier ¹ | Reason Code ² |
|---|--|-------|--------------------------------------|-----------------------------|
| Groundwater Samp | es: | | | |
| 3_MW-14 | PAHs | ug/L | Detects: J- Nondetects: UJ | S |
| 1_MW-10 1_MW-17 1_MW-35 1_MW-35D 3_MW-27 3_MW-27D 3_MW-58 TB-1 | 1,2,4-Trichlorobenzene | ug/L | UJ | I |
| 3_MW-45 | Benzo(b)fluoranthene Indeno(1,2,3-cd)pyrene | ug/L | J+ | 1 |

(1): Data Validation Qualifiers:

(2): Reason Codes:

- I Laboratory control sample
- s Surrogate

J: The analyte was positively identified. +/- indicate the direction of bias.

UJ: The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Appendix E Laboratory Analytical Reports

aecom.com





April 01, 2020

Lanette Altenbach AECOM, Inc. 1555 N River Center Drive Suite 214 Milwaukee, WI 53212

RE: Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Chuskpher Hyska

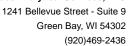
christopher.hyska@pacelabs.com

(920)469-2436

Project Manager

Enclosures







CERTIFICATIONS

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Pace Analytical Services Green Bay

North Dakota Certification #: R-150

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

| Sample ID | Matrix | Date Collected | Date Received |
|-----------|---|----------------|---|
| 1_MW-19 | Water | 03/18/20 10:00 | 03/23/20 12:35 |
| 1_MW-43 | Water | 03/18/20 10:20 | 03/23/20 12:35 |
| 1_MW-39 | Water | 03/18/20 11:45 | 03/23/20 12:35 |
| 1_MW-35 | Water | 03/18/20 13:10 | 03/23/20 12:35 |
| 1_MW-35D | Water | 03/18/20 00:00 | 03/23/20 12:35 |
| 1_MW-10 | Water | 03/18/20 14:40 | 03/23/20 12:35 |
| 1_MW-14 | Water | 03/18/20 16:15 | 03/23/20 12:35 |
| 1_MW-17 | Water | 03/19/20 11:05 | 03/23/20 12:35 |
| 3_MW-14 | Water | 03/19/20 11:50 | 03/23/20 12:35 |
| 3_MW-11 | Water | 03/19/20 13:05 | 03/23/20 12:35 |
| 3_MW-45 | Water | 03/19/20 14:05 | 03/23/20 12:35 |
| 3_MW-20 | Water | 03/19/20 15:10 | 03/23/20 12:35 |
| 3_MW-64 | Water | 03/19/20 16:15 | 03/23/20 12:35 |
| 3_MW-27 | Water | 03/20/20 09:50 | 03/23/20 12:35 |
| 3_MW-27D | Water | 03/20/20 00:00 | 03/23/20 12:35 |
| 3_MW-77 | Water | 03/20/20 11:35 | 03/23/20 12:35 |
| 3_MW-72 | Water | 03/20/20 12:50 | 03/23/20 12:35 |
| 3_MW-58 | Water | 03/20/20 14:45 | 03/23/20 12:35 |
| | | | |
| | 1_MW-19 1_MW-43 1_MW-39 1_MW-35 1_MW-35D 1_MW-10 1_MW-14 1_MW-17 3_MW-14 3_MW-11 3_MW-45 3_MW-20 3_MW-64 3_MW-27 3_MW-27D 3_MW-77 3_MW-72 | 1_MW-19 | 1_MW-19 Water 03/18/20 10:00 1_MW-43 Water 03/18/20 10:20 1_MW-39 Water 03/18/20 11:45 1_MW-35 Water 03/18/20 13:10 1_MW-35D Water 03/18/20 00:00 1_MW-10 Water 03/18/20 14:40 1_MW-14 Water 03/18/20 16:15 1_MW-17 Water 03/19/20 11:50 3_MW-14 Water 03/19/20 11:50 3_MW-45 Water 03/19/20 13:05 3_MW-45 Water 03/19/20 15:10 3_MW-20 Water 03/19/20 15:10 3_MW-64 Water 03/19/20 16:15 3_MW-27D Water 03/20/20 09:50 3_MW-77 Water 03/20/20 11:35 3_MW-72 Water 03/20/20 12:50 |



SAMPLE ANALYTE COUNT

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------------|----------|----------------------|------------|
| 40205127001 | | EPA 6020 | KXS | | PASI-G |
| 40205127002 | 1_MW-43 | EPA 6020 | DS1 | 2 | PASI-G |
| 40205127003 | 1_MW-39 | EPA 6020 | DS1, KXS | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127004 | 1_MW-35 | EPA 6020 | DS1, KXS | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | | EPA 8260 | LAP | 65 | PASI-G |
| 40205127005 | 1_MW-35D | EPA 6020 | DS1 | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | | EPA 8260 | LAP | 65 | PASI-G |
| 40205127006 | 1_MW-10 | EPA 6020 | DS1 | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | | EPA 8260 | LAP | 65 | PASI-G |
| 40205127007 | 1_MW-14 | EPA 6020 | DS1 | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127008 | 1_MW-17 | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | | EPA 8260 | LAP | 65 | PASI-G |
| 40205127009 | 3_MW-14 | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 10205127010 | 3_MW-11 | EPA 6020 | KXS | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127011 | 3_MW-45 | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127012 | 3_MW-20 | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127013 | 3_MW-64 | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127014 | 3_MW-27 | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | | EPA 8260 | LAP | 65 | PASI-G |
| 40205127015 | 3_MW-27D | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | EPA 8260 | LAP | 65 | PASI-G | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

(920)469-2436



SAMPLE ANALYTE COUNT

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------------|----------|----------------------|------------|
| 40205127016 | 3_MW-77 | EPA 6020 | | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127017 | 3_MW-72 | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| 40205127018 | 3_MW-58 | EPA 6020 | DS1 | 1 | PASI-G |
| | | EPA 8270 by HVI | TPO | 20 | PASI-G |
| | | EPA 8260 | LAP | 65 | PASI-G |
| 40205127019 | TB-1 | EPA 8260 | LAP | 65 | PASI-G |

PASI-G = Pace Analytical Services - Green Bay



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

| Lab Sample ID | Client Sample ID | | | | | |
|----------------------|----------------------|-------------|-------------------|--------------|----------------|-----------|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifier |
| 40205127002 | 1_MW-43 | | | | | |
| EPA 6020 | Arsenic, Dissolved | 0.80J | ug/L | 1.0 | 03/27/20 17:17 | |
| 40205127003 | 1_MW-39 | | | | | |
| EPA 6020 | Barium, Dissolved | 729 | ug/L | 2.3 | 03/27/20 02:04 | |
| EPA 8270 by HVI | Acenaphthene | 9.2 | ug/L | 0.030 | 03/26/20 21:32 | |
| EPA 8270 by HVI | Acenaphthylene | 0.012J | ug/L | 0.025 | 03/26/20 21:32 | |
| EPA 8270 by HVI | Anthracene | 0.033J | ug/L | | 03/26/20 21:32 | |
| EPA 8270 by HVI | Benzo(a)anthracene | 0.0084J | ug/L | 0.038 | 03/26/20 21:32 | |
| EPA 8270 by HVI | Fluoranthene | 0.058 | ug/L | 0.053 | 03/26/20 21:32 | |
| EPA 8270 by HVI | Fluorene | 0.53 | ug/L | 0.040 | | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.70 | ug/L | 0.030 | 03/26/20 21:32 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.90 | ug/L | 0.024 | | |
| EPA 8270 by HVI | Naphthalene | 0.17 | ug/L | 0.092 | 03/26/20 21:32 | |
| EPA 8270 by HVI | Phenanthrene | 0.42 | ug/L | 0.069 | 03/26/20 21:32 | |
| EPA 8270 by HVI | Pyrene | 0.035J | ug/L | 0.038 | 03/26/20 21:32 | |
| 0205127004 | 1_MW-35 | 3.333 | J, - - | 0.000 | 2.2.2.20 | |
| EPA 6020 | Arsenic, Dissolved | 1.41 | ua/I | 2.0 | 03/30/20 18:56 | D2 |
| EPA 6020 EPA 6020 | • | 1.4J 220 | ug/L | 2.0 | | D3 |
| | Barium, Dissolved | | ug/L | 2.3 | | |
| EPA 8270 by HVI | Acenaphthylene | 0.0071J | ug/L | 0.024 | 03/26/20 15:59 | |
| EPA 8270 by HVI | Anthracene | 0.059 | ug/L | 0.050 | 03/26/20 15:59 | |
| EPA 8270 by HVI | Benzo(a)anthracene | 0.0093J | ug/L | 0.036 | 03/26/20 15:59 | |
| EPA 8270 by HVI | Benzo(b)fluoranthene | 0.011J | ug/L | 0.028 | 03/26/20 15:59 | |
| EPA 8270 by HVI | Benzo(g,h,i)perylene | 0.0088J | ug/L | 0.033 | | |
| EPA 8270 by HVI | Pyrene | 0.0076J | ug/L | 0.037 | | |
| EPA 8260 | p-Isopropyltoluene | 34.5 | ug/L | 2.7 | 03/25/20 15:30 | |
| EPA 8260 | Toluene | 0.52J | ug/L | 0.90 | 03/25/20 15:30 | |
| 0205127005 | 1_MW-35D | | | | | |
| EPA 6020 | Arsenic, Dissolved | 1.6 | ug/L | 1.0 | 03/27/20 17:38 | |
| EPA 6020 | Barium, Dissolved | 208 | ug/L | 2.3 | 03/27/20 17:38 | |
| EPA 8270 by HVI | Acenaphthylene | 0.0075J | ug/L | 0.027 | 03/26/20 16:17 | |
| EPA 8270 by HVI | Anthracene | 0.049J | ug/L | 0.056 | 03/26/20 16:17 | |
| EPA 8260 | p-Isopropyltoluene | 31.2 | ug/L | 2.7 | 03/25/20 15:52 | |
| EPA 8260 | Toluene | 0.48J | ug/L | 0.90 | 03/25/20 15:52 | |
| 0205127006 | 1_MW-10 | | | | | |
| EPA 6020 | Arsenic, Dissolved | 0.88J | ug/L | 1.0 | 03/27/20 16:22 | |
| EPA 6020 | Barium, Dissolved | 102 | ug/L | | 03/27/20 16:22 | |
| EPA 6020 | Selenium, Dissolved | 1.5 | ug/L | 1.1 | 03/27/20 16:22 | |
| EPA 8270 by HVI | Acenaphthene | 0.074 | ug/L | 0.030 | 03/26/20 12:57 | |
| EPA 8270 by HVI | Acenaphthylene | 0.011J | ug/L | 0.024 | 03/26/20 12:57 | |
| EPA 8270 by HVI | Fluorene | 0.043 | ug/L | 0.039 | | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.090 | ug/L | 0.029 | | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.0092J | ug/L | 0.024 | | |
| EPA 8270 by HVI | Naphthalene | 0.14 | ug/L | 0.090 | | |
| 0205127007 | 1_MW-14 | | | | | |
| EPA 6020 | Arsenic, Dissolved | 0.64J | ug/L | 1.0 | 03/27/20 17:45 | |
| | | 0.0.0 | ~9 [,] ⊏ | 1.0 | 55,2.,25 11.10 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

| Method 10205127007 EPA 6020 EPA 6020 EPA 8270 by HVI EPA 8270 by HVI | Parameters 1_MW-14 Barium, Dissolved Selenium, Dissolved Acenaphthene Acenaphthylene Anthracene | 99.2 1.6 0.0089J | Units ug/L | Report Limit | Analyzed | Qualifiers |
|---|---|------------------------|---------------|--------------|----------------|------------|
| EPA 6020 EPA 6020 EPA 8270 by HVI EPA 8270 by HVI | Barium, Dissolved Selenium, Dissolved Acenaphthene Acenaphthylene | 1.6 | ug/L | | | |
| EPA 6020 EPA 8270 by HVI EPA 8270 by HVI | Selenium, Dissolved Acenaphthene Acenaphthylene | 1.6 | ug/L | | | |
| EPA 8270 by HVI EPA 8270 by HVI | Acenaphthene Acenaphthylene | | | 2.3 | 03/27/20 17:45 | |
| EPA 8270 by HVI EPA 8270 by HVI | Acenaphthylene | 0.0089J | ug/L | 1.1 | 03/27/20 17:45 | |
| EPA 8270 by HVI EPA 8270 by HVI EPA 8270 by HVI EPA 8270 by HVI EPA 8270 by HVI | | | ug/L | 0.029 | 03/26/20 16:36 | |
| EPA 8270 by HVI EPA 8270 by HVI EPA 8270 by HVI EPA 8270 by HVI | Anthracene | 0.056 | ug/L | 0.024 | 03/26/20 16:36 | |
| EPA 8270 by HVI EPA 8270 by HVI EPA 8270 by HVI | Antinaccinc | 0.075 | ug/L | 0.051 | 03/26/20 16:36 | |
| EPA 8270 by HVI EPA 8270 by HVI | Benzo(a)anthracene | 0.31 | ug/L | 0.037 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Benzo(a)pyrene | 0.30 | ug/L | 0.051 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Benzo(b)fluoranthene | 0.38 | ug/L | 0.028 | 03/26/20 16:36 | |
| • | Benzo(g,h,i)perylene | 0.14 | ug/L | 0.033 | 03/26/20 16:36 | |
| - · · · / | Benzo(k)fluoranthene | 0.19 | ug/L | 0.037 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Chrysene | 0.37 | ug/L | 0.063 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Dibenz(a,h)anthracene | 0.037J | ug/L | 0.049 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Fluoranthene | 0.77 | ug/L | 0.052 | | |
| EPA 8270 by HVI | Fluorene | 0.049 | ug/L | 0.039 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Indeno(1,2,3-cd)pyrene | 0.14 | ug/L | 0.086 | 03/26/20 16:36 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.011J | ug/L | 0.029 | 03/26/20 16:36 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.011J | ug/L | 0.023 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Phenanthrene | 0.50 | ug/L | 0.024 | 03/26/20 16:36 | |
| EPA 8270 by HVI | Pyrene | 0.61 | ug/L | 0.037 | 03/26/20 16:36 | |
| • | • | 0.01 | ug/L | 0.037 | 03/20/20 10.30 | |
| 0205127008 | 1_MW-17 | | | | | |
| EPA 6020 | Arsenic, Dissolved | 0.32J | ug/L | 1.0 | 03/27/20 02:46 | |
| EPA 8270 by HVI | Acenaphthene | 0.016J | ug/L | 0.029 | 03/26/20 16:54 | |
| EPA 8270 by HVI | Acenaphthylene | 0.0060J | ug/L | 0.024 | 03/26/20 16:54 | |
| EPA 8270 by HVI | Benzo(a)anthracene | 0.0080J | ug/L | 0.037 | 03/26/20 16:54 | |
| EPA 8270 by HVI | Fluorene | 0.0083J | ug/L | 0.039 | 03/26/20 16:54 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.025J | ug/L | 0.029 | 03/26/20 16:54 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.010J | ug/L | 0.024 | 03/26/20 16:54 | |
| EPA 8270 by HVI | Naphthalene | 0.087J | ug/L | 0.089 | 03/26/20 16:54 | |
| EPA 8270 by HVI | Pyrene | 0.0075J | ug/L | 0.037 | 03/26/20 16:54 | |
| 0205127009 | 3_MW-14 | | | | | |
| EPA 8270 by HVI | Acenaphthene | 0.012J | ug/L | 0.029 | 03/26/20 17:12 | |
| EPA 8270 by HVI | Acenaphthylene | 0.0078J | ug/L | 0.024 | 03/26/20 17:12 | |
| EPA 8270 by HVI | Benzo(a)anthracene | 0.0091J | ug/L | 0.037 | 03/26/20 17:12 | |
| EPA 8270 by HVI | Benzo(b)fluoranthene | 0.0089J | ug/L | 0.028 | 03/26/20 17:12 | |
| EPA 8270 by HVI | Fluoranthene | 0.040J | ug/L | 0.052 | 03/26/20 17:12 | |
| EPA 8270 by HVI | Fluorene | 0.019J | ug/L | 0.039 | 03/26/20 17:12 | |
| EPA 8270 by HVI | Pyrene | 0.027J | ug/L | 0.037 | | |
| 0205127010 | 3_MW-11 | | | | | |
| EPA 6020 | Arsenic, Dissolved | 7.5 | ug/L | 2.0 | 03/30/20 19:03 | |
| EPA 8270 by HVI | Acenaphthene | 0.17 | ug/L | 0.029 | 03/26/20 22:09 | |
| EPA 8270 by HVI | Fluorene | 0.024J | ug/L | 0.038 | 03/26/20 22:09 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.0066J | ug/L | 0.028 | 03/26/20 22:09 | |
| 0205127011 | 3_MW-45 | | Č | | | |
| EPA 6020 | Arsenic, Dissolved | 1.4 | ug/L | 1.0 | 03/27/20 02:59 | |
| EPA 8270 by HVI | Acenaphthene | 0.80 | ug/L ug/L | | 03/26/20 17:31 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

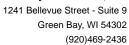
| Lab Sample ID | Client Sample ID | | | | | |
|-----------------|------------------------|-------------------|--------------|--------------|----------------|------------|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
| 0205127011 | 3_MW-45 | | | | | |
| EPA 8270 by HVI | Acenaphthylene | 4.8 | ug/L | 0.082 | 03/26/20 17:31 | |
| PA 8270 by HVI | Anthracene | 1.2 | ug/L | 0.17 | 03/26/20 17:31 | |
| PA 8270 by HVI | Benzo(a)anthracene | 0.33 | ug/L | 0.12 | 03/26/20 17:31 | |
| PA 8270 by HVI | Benzo(a)pyrene | 0.42 | ug/L | 0.17 | 03/26/20 17:31 | |
| PA 8270 by HVI | Benzo(b)fluoranthene | 0.40 | ug/L | 0.095 | 03/26/20 17:31 | L1 |
| PA 8270 by HVI | Benzo(g,h,i)perylene | 0.42 | ug/L | 0.11 | 03/26/20 17:31 | |
| EPA 8270 by HVI | Benzo(k)fluoranthene | 0.19 | ug/L | 0.12 | 03/26/20 17:31 | |
| EPA 8270 by HVI | Chrysene | 0.35 | ug/L | 0.22 | 03/26/20 17:31 | |
| EPA 8270 by HVI | Dibenz(a,h)anthracene | 0.054J | ug/L | 0.17 | 03/26/20 17:31 | |
| PA 8270 by HVI | Fluoranthene | 1.2 | ug/L | 0.18 | 03/26/20 17:31 | |
| PA 8270 by HVI | Fluorene | 2.9 | ug/L | 0.13 | | |
| PA 8270 by HVI | Indeno(1,2,3-cd)pyrene | 0.25J | ug/L | 0.29 | 03/26/20 17:31 | L1 |
| PA 8270 by HVI | 1-Methylnaphthalene | 5.1 | ug/L | 0.097 | 03/26/20 17:31 | |
| PA 8270 by HVI | 2-Methylnaphthalene | 6.5 | ug/L | 0.081 | 03/26/20 17:31 | |
| PA 8270 by HVI | Naphthalene | 33.6 | ug/L | 0.30 | 03/26/20 17:31 | |
| PA 8270 by HVI | Phenanthrene | 4.8 | ug/L | 0.23 | 03/26/20 17:31 | |
| PA 8270 by HVI | Pyrene | 1.0 | ug/L | 0.13 | 03/26/20 17:31 | |
| 205127012 | 3_MW-20 | | | | | |
| PA 8270 by HVI | Benzo(g,h,i)perylene | 0.014J | ug/L | 0.036 | 03/27/20 11:24 | |
| 205127013 | 3_MW-64 | | | | | |
| PA 6020 | Arsenic, Dissolved | 4.3 | ug/L | 1.0 | 03/27/20 03:06 | |
| PA 8270 by HVI | Benzo(g,h,i)perylene | 0.0079J | ug/L | 0.039 | 03/27/20 12:14 | |
| 205127014 | 3_MW-27 | | | | | |
| PA 8260 | Tetrachloroethene | 1.0J | ug/L | 1.1 | 03/25/20 16:37 | |
| PA 8260 | Trichloroethene | 0.33J | ug/L | 1.0 | 03/25/20 16:37 | |
| 205127015 | 3_MW-27D | | | | | |
| PA 8260 | Tetrachloroethene | 1.1 | ug/L | 1.1 | 03/25/20 16:59 | |
| PA 8260 | Trichloroethene | 0.45J | ug/L | 1.0 | 03/25/20 16:59 | |
| 0205127016 | 3_MW-77 | 0.100 | ~g/ = | | 00/20/20 10:00 | |
| PA 6020 | Arsenic, Dissolved | 0.92J | ug/L | 1.0 | 03/27/20 17:58 | |
| PA 8270 by HVI | 1-Methylnaphthalene | 0.923 0.017J | ug/L ug/L | 0.028 | 03/27/20 17:38 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.0173 0.0077J | ug/L ug/L | 0.023 | 03/27/20 13:04 | |
| • | • • | 0.00770 | ug/L | 0.020 | 00/21/20 10:04 | |
| 0205127017 | 3_MW-72 | 0.441 | // | 4.0 | 00/07/00 00 40 | |
| PA 6020 | Arsenic, Dissolved | 0.44J | ug/L | | 03/27/20 03:48 | |
| PA 8270 by HVI | Naphthalene | 0.020J | ug/L | 0.10 | 03/27/20 13:21 | |
| 205127018 | 3_MW-58 | | | | | |
| PA 6020 | Arsenic, Dissolved | 3.8 | ug/L | 1.0 | 03/27/20 18:05 | |
| PA 8270 by HVI | Acenaphthene | 3.8 | ug/L | 0.74 | 03/26/20 17:49 | |
| PA 8270 by HVI | Acenaphthylene | 2.6 | ug/L | 0.60 | | |
| PA 8270 by HVI | Anthracene | 0.85J | ug/L | 1.3 | | |
| PA 8270 by HVI | Fluorene | 7.2 | ug/L | 0.97 | | |
| PA 8270 by HVI | 1-Methylnaphthalene | 146 | ug/L | 0.72 | 03/26/20 17:49 | |
| PA 8270 by HVI | 2-Methylnaphthalene | 182 | ug/L | 0.59 | 03/26/20 17:49 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

| Lab Sample ID | Client Sample ID | | | | | | |
|-----------------|---------------------------|--------|-------|--------------|----------------|------------|--|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifiers | |
| 40205127018 | 3_MW-58 | | | | | | |
| EPA 8270 by HVI | Naphthalene | 6.0 | ug/L | 2.2 | 03/26/20 17:49 | | |
| EPA 8270 by HVI | Phenanthrene | 9.8 | ug/L | 1.7 | 03/26/20 17:49 | | |
| EPA 8270 by HVI | Pyrene | 0.40J | ug/L | 0.93 | 03/26/20 17:49 | | |
| EPA 8260 | Benzene | 15.3 | ug/L | 2.5 | 03/25/20 18:06 | | |
| EPA 8260 | n-Butylbenzene | 19.3 | ug/L | 5.9 | 03/25/20 18:06 | | |
| EPA 8260 | sec-Butylbenzene | 7.7J | ug/L | 12.5 | 03/25/20 18:06 | | |
| EPA 8260 | Ethylbenzene | 112 | ug/L | 2.7 | 03/25/20 18:06 | | |
| EPA 8260 | Isopropylbenzene (Cumene) | 15.5 | ug/L | 14.0 | 03/25/20 18:06 | | |
| EPA 8260 | p-Isopropyltoluene | 3.5J | ug/L | 6.7 | 03/25/20 18:06 | | |
| EPA 8260 | n-Propylbenzene | 29.7 | ug/L | 12.5 | 03/25/20 18:06 | | |
| EPA 8260 | Tetrachloroethene | 1.2J | ug/L | 2.7 | 03/25/20 18:06 | | |
| EPA 8260 | Toluene | 1.9J | ug/L | 2.2 | 03/25/20 18:06 | | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 279 | ug/L | 7.0 | 03/25/20 18:06 | | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 79.6 | ug/L | 7.3 | 03/25/20 18:06 | | |
| EPA 8260 | Xylene (Total) | 263 | ug/L | 7.5 | 03/25/20 18:06 | | |
| EPA 8260 | m&p-Xylene | 260 | ug/L | 5.0 | 03/25/20 18:06 | | |
| EPA 8260 | o-Xylene | 3.1 | ug/L | 2.5 | 03/25/20 18:06 | | |



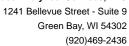


Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

Sample: 1_MW-19 Lab ID: 40205127001 Collected: 03/18/20 10:00 Received: 03/23/20 12:35 Matrix: Water **Parameters** Results Units LOQ LOD DF Prepared CAS No. Analyzed Qual Analytical Method: EPA 6020 Preparation Method: EPA 3010 6020 MET ICPMS, Dissolved Pace Analytical Services - Green Bay Arsenic, Dissolved < 0.56 ug/L 2.0 0.56 D3





Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-43 | Lab ID: 40205127002 | | Collected: 03/18/20 10:20 | | | Received: 03/23/20 12:35 Matrix: Water | | | |
|---------------------------|---------------------|---------------|---------------------------|------|---------|--|----------------|-----------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | , | Method: EPA 6 | | | od: EPA | A 3010 | | | |
| Arsenic, Dissolved | 0.80J | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 17:17 | 7440-38-2 | |
| Lead, Dissolved | <0.24 | ug/L | 1.0 | 0.24 | 1 | 03/24/20 22:14 | 03/27/20 17:17 | 7439-92-1 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-39 | Lab ID: | 40205127003 | Collected | d: 03/18/20 | 11:45 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|---------------------------|------------|-----------------|-------------|--------------|---------|----------------|----------------|--------------|-----|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepai | ration Metho | od: EPA | A 3010 | | | |
| | Pace Anal | ytical Services | - Green Bay | y | | | | | |
| Arsenic, Dissolved | <1.4 | ug/L | 5.0 | 1.4 | 5 | 03/24/20 22:14 | 03/30/20 18:49 | 7440-38-2 | D3 |
| Barium, Dissolved | 729 | ug/L | 2.3 | 0.70 | 1 | 03/24/20 22:14 | 03/27/20 02:04 | 7440-39-3 | |
| Cadmium, Dissolved | <0.15 | ug/L | 1.0 | 0.15 | 1 | 03/24/20 22:14 | 03/27/20 02:04 | 7440-43-9 | |
| Chromium, Dissolved | <5.1 | ug/L | 17.0 | 5.1 | 5 | 03/24/20 22:14 | 03/30/20 18:49 | 7440-47-3 | D3 |
| Lead, Dissolved | <1.2 | ug/L | 5.0 | 1.2 | 5 | 03/24/20 22:14 | 03/30/20 18:49 | 7439-92-1 | D3 |
| Selenium, Dissolved | <1.6 | ug/L | 5.3 | 1.6 | 5 | 03/24/20 22:14 | 03/30/20 18:49 | 7782-49-2 | D3 |
| Silver, Dissolved | <0.13 | ug/L | 0.50 | 0.13 | 1 | 03/24/20 22:14 | 03/27/20 02:04 | 7440-22-4 | |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepai | ration Metho | od: EPA | A 7470 | | | |
| | Pace Anal | ytical Services | - Green Ba | y | | | | | |
| Mercury, Dissolved | <0.084 | ug/L | 0.28 | 0.084 | 1 | 03/26/20 10:20 | 03/27/20 10:14 | 7439-97-6 | |
| 3270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| | Pace Anal | ytical Services | - Green Ba | У | | | | | |
| Acenaphthene | 9.2 | ug/L | 0.030 | 0.0061 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 83-32-9 | |
| Acenaphthylene | 0.012J | ug/L | 0.025 | 0.0050 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 208-96-8 | |
| Anthracene | 0.033J | ug/L | 0.052 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 120-12-7 | |
| Benzo(a)anthracene | 0.0084J | ug/L | 0.038 | 0.0076 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.053 | 0.011 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0057 | ug/L | 0.029 | 0.0057 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0068 | ug/L | 0.034 | 0.0068 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 191-24-2 | |
| Benzo(k)fluoranthene | < 0.0076 | ug/L | 0.038 | 0.0076 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 207-08-9 | |
| Chrysene | <0.013 | ug/L | 0.065 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.010 | ug/L | 0.050 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 53-70-3 | |
| Fluoranthene | 0.058 | ug/L | 0.053 | 0.011 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 206-44-0 | |
| Fluorene | 0.53 | ug/L | 0.040 | 0.0080 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 86-73-7 | |
| ndeno(1,2,3-cd)pyrene | <0.018 | ug/L | 0.088 | 0.018 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 193-39-5 | |
| I-Methylnaphthalene | 0.70 | ug/L | 0.030 | 0.0059 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 90-12-0 | |
| 2-Methylnaphthalene | 0.90 | ug/L | 0.024 | 0.0049 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 91-57-6 | |
| Naphthalene | 0.17 | ug/L | 0.092 | 0.018 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 91-20-3 | |
| Phenanthrene | 0.42 | ug/L | 0.069 | 0.014 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 85-01-8 | |
| Pyrene | 0.035J | ug/L | 0.038 | 0.0076 | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 129-00-0 | |
| Surrogates | | Č | | | | | | | |
| 2-Fluorobiphenyl (S) | 52 | % | 39-120 | | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 321-60-8 | |
| Terphenyl-d14 (S) | 79 | % | 10-159 | | 1 | 03/24/20 09:04 | 03/26/20 21:32 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-35 | Lab ID: | 40205127004 | Collected: | 03/18/20 | 13:10 | Received: 03/ | 23/20 12:35 N | Matrix: Water | |
|---------------------------|------------|-----------------|-------------|-------------|---------|----------------|---------------|---------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ition Metho | od: EPA | 3010 | | | |
| | Pace Anal | ytical Services | - Green Bay | | | | | | |
| Arsenic, Dissolved | 1.4J | ug/L | 2.0 | 0.56 | 2 | 03/24/20 22:14 | 03/30/20 18:5 | 6 7440-38-2 | D3 |
| Barium, Dissolved | 220 | ug/L | 2.3 | 0.70 | 1 | 03/24/20 22:14 | 03/27/20 17:3 | 1 7440-39-3 | |
| Cadmium, Dissolved | <0.15 | ug/L | 1.0 | 0.15 | 1 | 03/24/20 22:14 | 03/27/20 17:3 | 1 7440-43-9 | |
| Chromium, Dissolved | <2.0 | ug/L | 6.8 | 2.0 | 2 | 03/24/20 22:14 | 03/30/20 18:5 | 6 7440-47-3 | D3 |
| _ead, Dissolved | < 0.47 | ug/L | 2.0 | 0.47 | 2 | 03/24/20 22:14 | 03/30/20 18:5 | 6 7439-92-1 | D3 |
| Selenium, Dissolved | < 0.63 | ug/L | 2.1 | 0.63 | 2 | 03/24/20 22:14 | 03/30/20 18:5 | 6 7782-49-2 | D3 |
| Silver, Dissolved | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 03/27/20 17:3 | | |
| 7470 Mercury, Dissolved | | Method: EPA 7 | | ition Metho | od: EPA | 7470 | | | |
| | | ytical Services | • | | | | | | |
| Mercury, Dissolved | <0.084 | ug/L | 0.28 | 0.084 | 1 | 03/26/20 10:20 | 03/27/20 10:1 | 7 7439-97-6 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Metho | od: EPA 3510 | | | |
| | Pace Anal | ytical Services | - Green Bay | | | | | | |
| Acenaphthene | <0.0058 | ug/L | 0.029 | 0.0058 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | 9 83-32-9 | |
| Acenaphthylene | 0.0071J | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | 9 208-96-8 | |
| Anthracene | 0.059 | ug/L | 0.050 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Benzo(a)anthracene | 0.0093J | ug/L | 0.036 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Benzo(a)pyrene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Benzo(b)fluoranthene | 0.011J | ug/L | 0.028 | 0.0055 | 1 | 03/24/20 09:04 | | | |
| Benzo(g,h,i)perylene | 0.0088J | ug/L ug/L | 0.020 | 0.0065 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Benzo(k)fluoranthene | < 0.0073 | ug/L ug/L | 0.036 | 0.0003 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Chrysene | <0.0073 | ug/L ug/L | 0.063 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Dibenz(a,h)anthracene | <0.0096 | ug/L ug/L | 0.048 | 0.0096 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| | <0.0090 | - | 0.048 | 0.0090 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| | | ug/L | | | | | | | |
| Fluorene | <0.0077 | ug/L | 0.038 | 0.0077 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| ndeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.085 | 0.017 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| -Methylnaphthalene | <0.0057 | ug/L | 0.028 | 0.0057 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| 2-Methylnaphthalene | <0.0047 | ug/L | 0.024 | 0.0047 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Naphthalene | <0.018 | ug/L | 0.088 | 0.018 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Phenanthrene | <0.013 | ug/L | 0.066 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| Pyrene | 0.0076J | ug/L | 0.037 | 0.0074 | 1 | 03/24/20 09:04 | 03/26/20 15:5 | 9 129-00-0 | |
| Surrogates | 0.4 | 0.4 | 00.400 | | | 00/04/00 00 04 | 00/00/00 45 5 | 0 004 00 0 | |
| 2-Fluorobiphenyl (S) | 64 | % | 39-120 | | 1 | 03/24/20 09:04 | 03/26/20 15:5 | | |
| erphenyl-d14 (S) | 80 | % | 10-159 | | 1 | 03/24/20 09:04 | 03/26/20 15:5 | 9 1718-51-0 | |
| 3260 MSV | | Method: EPA 8 | | | | | | | |
| | Pace Anal | ytical Services | - Green Bay | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 15:3 | 0 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 15:3 | 0 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 03/25/20 15:3 | 0 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/25/20 15:3 | 0 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/25/20 15:3 | | |
| וווטוטווווו | | _ | - | - | | | | - | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/25/20 15:3 | 0 74-83-9 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

Sample: 1_MW-35 Lab ID: 40205127004 Collected: 03/18/20 13:10 Received: 03/23/20 12:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual | |
|-----------------------------|--------------------------------------|--------------|------|------|----|----------|----------------|------------|------|--|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 03/25/20 15:30 | 135-98-8 | | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 15:30 | | | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 15:30 | | | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 15:30 | | | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 15:30 | | | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 15:30 | | | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/25/20 15:30 | | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 03/25/20 15:30 | | | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 03/25/20 15:30 | | | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 03/25/20 15:30 | | | |
| Dibromochloromethane | <2.6 | ug/L ug/L | 8.7 | 2.6 | 1 | | 03/25/20 15:30 | | | |
| 1,2-Dibromoethane (EDB) | <2.6 <0.83 | ug/L ug/L | 2.8 | 0.83 | 1 | | 03/25/20 15:30 | | | |
| Dibromomethane | <0.94 | ug/L ug/L | 3.1 | 0.83 | 1 | | 03/25/20 15:30 | | | |
| | <0.71 | - | 2.4 | 0.94 | 1 | | 03/25/20 15:30 | | | |
| 1,2-Dichlorobenzene | | ug/L | | | 1 | | | | | |
| 1,3-Dichlorobenzene | < 0.63 | ug/L | 2.1 | 0.63 | | | 03/25/20 15:30 | | | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 15:30 | | | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 03/25/20 15:30 | | | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 15:30 | | | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 15:30 | | | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 15:30 | | | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 15:30 | | | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 15:30 | | | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 15:30 | | | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 15:30 | | | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 03/25/20 15:30 | 594-20-7 | | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 03/25/20 15:30 | 563-58-6 | | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 03/25/20 15:30 | 10061-01-5 | | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 03/25/20 15:30 | 10061-02-6 | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 03/25/20 15:30 | 108-20-3 | | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 03/25/20 15:30 | 100-41-4 | | |
| Hexachloro-1,3-butadiene | <1.5 | ug/L | 4.9 | 1.5 | 1 | | 03/25/20 15:30 | 87-68-3 | | |
| Isopropylbenzene (Cumene) | <1.7 | ug/L | 5.6 | 1.7 | 1 | | 03/25/20 15:30 | 98-82-8 | | |
| p-Isopropyltoluene | 34.5 | ug/L | 2.7 | 0.80 | 1 | | 03/25/20 15:30 | 99-87-6 | | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 03/25/20 15:30 | 75-09-2 | | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 03/25/20 15:30 | 1634-04-4 | | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 03/25/20 15:30 | 91-20-3 | | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 03/25/20 15:30 | | | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 03/25/20 15:30 | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 15:30 | | | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 15:30 | | | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 03/25/20 15:30 | | | |
| Toluene | 0.52J | ug/L | 0.90 | 0.27 | 1 | | 03/25/20 15:30 | | | |
| 1,2,3-Trichlorobenzene | <2.2 | ug/L | 7.4 | 2.2 | 1 | | 03/25/20 15:30 | | | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 03/25/20 15:30 | | L2 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L ug/L | 1.0 | 0.33 | 1 | | 03/25/20 15:30 | | | |

(920)469-2436



ANALYTICAL RESULTS

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-35 | Lab ID: 40205127004 | | Collected: 03/18/20 13:10 | | | Received: 03 | atrix: Water | | | |
|--------------------------|-----------------------------|-----------------|---------------------------|------|----|--------------|----------------|-------------|------|--|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | | |
| | Pace Anal | ytical Services | - Green Ba | у | | | | | | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/25/20 15:30 | 79-00-5 | | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 15:30 | 79-01-6 | | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 03/25/20 15:30 | 75-69-4 | | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 03/25/20 15:30 | 96-18-4 | | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 03/25/20 15:30 | 95-63-6 | | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 03/25/20 15:30 | 108-67-8 | | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/25/20 15:30 | 75-01-4 | | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/25/20 15:30 | 1330-20-7 | | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 03/25/20 15:30 | 179601-23-1 | | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 15:30 | 95-47-6 | | |
| Surrogates | | · · | | | | | | | | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 03/25/20 15:30 | 460-00-4 | | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 03/25/20 15:30 | 1868-53-7 | | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 03/25/20 15:30 | 2037-26-5 | | |



Project: 60615404 CN MANITOWOC

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-35D | Lab ID: | 40205127005 | Collected: | 03/18/20 | 00:00 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|---------------------------|---------------|------------------|-------------|-------------|---------|----------------|----------------|--------------|-----|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | tion Metho | od: EPA | 3010 | | | |
| , | • | lytical Services | • | | | | | | |
| Arsenic, Dissolved | 1.6 | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 17:38 | 7440-38-2 | |
| Barium, Dissolved | 208 | ug/L | 2.3 | 0.70 | 1 | 03/24/20 22:14 | 03/27/20 17:38 | | |
| Cadmium, Dissolved | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 03/27/20 17:38 | | |
| Chromium, Dissolved | <1.0 | ug/L | 3.4 | 1.0 | 1 | 03/24/20 22:14 | | | |
| _ead, Dissolved | <0.24 | ug/L | 1.0 | 0.24 | 1 | 03/24/20 22:14 | | | |
| Selenium, Dissolved | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 03/27/20 17:38 | | |
| Silver, Dissolved | <0.13 | ug/L | 0.50 | 0.13 | 1 | 03/24/20 22:14 | | | |
| 470 Mercury, Dissolved | - | Method: EPA 7 | | tion Metho | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.084 | ug/L | 0.28 | 0.084 | 1 | 03/26/20 10:20 | 03/27/20 10:19 | 7420 07 6 | |
| - | | - | | | | | 03/21/20 10.19 | 1439-91-0 | |
| 3270 MSSV PAH by HVI | • | Method: EPA 8 | • | Preparation | n Metho | od: EPA 3510 | | | |
| | Pace Ana | lytical Services | - Green Bay | | | | | | |
| cenaphthene | < 0.0065 | ug/L | 0.033 | 0.0065 | 1 | 03/24/20 09:04 | 03/26/20 16:17 | 83-32-9 | |
| cenaphthylene | 0.0075J | ug/L | 0.027 | 0.0054 | 1 | 03/24/20 09:04 | 03/26/20 16:17 | | |
| Inthracene | 0.049J | ug/L | 0.056 | 0.011 | 1 | 03/24/20 09:04 | 03/26/20 16:17 | | |
| enzo(a)anthracene | <0.0081 | ug/L | 0.041 | 0.0081 | 1 | 03/24/20 09:04 | | | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 03/24/20 09:04 | | | |
| Benzo(b)fluoranthene | <0.0062 | ug/L | 0.031 | 0.0062 | 1 | 03/24/20 09:04 | | | |
| Benzo(g,h,i)perylene | < 0.0073 | ug/L | 0.036 | 0.0073 | 1 | 03/24/20 09:04 | | | |
| Benzo(k)fluoranthene | <0.0081 | ug/L | 0.041 | 0.0075 | 1 | 03/24/20 09:04 | | | |
| Chrysene | <0.014 | ug/L | 0.070 | 0.0001 | 1 | 03/24/20 09:04 | | | |
| Dibenz(a,h)anthracene | <0.014 | ug/L | 0.074 | 0.014 | 1 | 03/24/20 09:04 | | | |
| Fluoranthene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 03/24/20 09:04 | | | |
| luorene | <0.0086 | ug/L | 0.037 | 0.0086 | 1 | 03/24/20 09:04 | | | |
| | <0.019 | - | 0.043 | 0.000 | 1 | 03/24/20 09:04 | 03/26/20 16:17 | | |
| ndeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.095 | 0.019 | 1 | 03/24/20 09:04 | | | |
| -Methylnaphthalene | | ug/L | | | | | | | |
| -Methylnaphthalene | <0.0053 | ug/L | 0.026 | 0.0053 | 1 | 03/24/20 09:04 | | | |
| Naphthalene | <0.020 | ug/L | 0.099 | 0.020 | 1 | 03/24/20 09:04 | | | |
| Phenanthrene | <0.015 | ug/L | 0.074 | 0.015 | 1 | 03/24/20 09:04 | 03/26/20 16:17 | | |
| Pyrene | <0.0082 | ug/L | 0.041 | 0.0082 | 1 | 03/24/20 09:04 | 03/26/20 16:17 | 129-00-0 | |
| Surrogates | 00 | 0/ | 20.400 | | 4 | 00/04/00 00:04 | 00/00/00 40:47 | 224 62 0 | |
| 2-Fluorobiphenyl (S) | 66 | % | 39-120 | | 1 | | 03/26/20 16:17 | | |
| erphenyl-d14 (S) | 83 | % | 10-159 | | 1 | 03/24/20 09:04 | 03/26/20 16:17 | 1/18-51-0 | |
| 260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 15:52 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 15:52 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 03/25/20 15:52 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/25/20 15:52 | 75-27-4 | |
| | .4.0 | - a/l | 13.2 | 4.0 | 1 | | 03/25/20 15:52 | 75-25-2 | |
| 3romoform | <4.0 | ug/∟ | 13.2 | 7.0 | | | 00/20/20 10.02 | 10 20 2 | |
| Bromoform Bromomethane | <4.0 <0.97 | ug/L ug/L | 5.0 | 0.97 | 1 | | 03/25/20 15:52 | | |



Collected: 03/18/20 00:00 Received: 03/23/20 12:35 Matrix: Water

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Sample: 1_MW-35D

Date: 04/01/2020 08:41 AM

Lab ID: 40205127005

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|------------|----------------|---------------|------|----|----------|----------------|------------|------|
| 8260 MSV | Analytical | Method: EPA | A 8260 | | | | | | |
| | Pace Anal | ytical Service | es - Green Ba | У | | | | | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 03/25/20 15:52 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 15:52 | 98-06-6 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 15:52 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 15:52 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 15:52 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 15:52 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/25/20 15:52 | 74-87-3 | |
| 2-Chlorotoluene | < 0.93 | ug/L | 5.0 | 0.93 | 1 | | 03/25/20 15:52 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 03/25/20 15:52 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 03/25/20 15:52 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 03/25/20 15:52 | | |
| 1,2-Dibromoethane (EDB) | < 0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 15:52 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 15:52 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 15:52 | 95-50-1 | |
| 1,3-Dichlorobenzene | < 0.63 | ug/L | 2.1 | 0.63 | 1 | | 03/25/20 15:52 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 15:52 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 03/25/20 15:52 | 75-71-8 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 15:52 | 75-34-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 15:52 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 15:52 | | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 15:52 | | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 15:52 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 15:52 | 78-87-5 | |
| 1,3-Dichloropropane | < 0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 15:52 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 03/25/20 15:52 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 03/25/20 15:52 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 03/25/20 15:52 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 03/25/20 15:52 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 03/25/20 15:52 | 108-20-3 | |
| Ethylbenzene | < 0.32 | ug/L | 1.1 | 0.32 | 1 | | 03/25/20 15:52 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.5 | ug/L | 4.9 | 1.5 | 1 | | 03/25/20 15:52 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <1.7 | ug/L | 5.6 | 1.7 | 1 | | 03/25/20 15:52 | 98-82-8 | |
| p-Isopropyltoluene | 31.2 | ug/L | 2.7 | 0.80 | 1 | | 03/25/20 15:52 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 03/25/20 15:52 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 03/25/20 15:52 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 03/25/20 15:52 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 03/25/20 15:52 | 103-65-1 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 03/25/20 15:52 | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 15:52 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 15:52 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 03/25/20 15:52 | 127-18-4 | |
| Toluene | 0.48J | ug/L | 0.90 | 0.27 | 1 | | 03/25/20 15:52 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.2 | ug/L | 7.4 | 2.2 | 1 | | 03/25/20 15:52 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 03/25/20 15:52 | 120-82-1 | L2 |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 15:52 | 71-55-6 | |

(920)469-2436



ANALYTICAL RESULTS

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-35D | Lab ID: | Lab ID: 40205127005 | | Collected: 03/18/20 00:00 | | Received: 03/23/20 12:35 | | Matrix: Water | |
|--------------------------|------------|---------------------|-------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Anal | ytical Services | - Green Bay | / | | | | | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/25/20 15:52 | 79-00-5 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 15:52 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 03/25/20 15:52 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 03/25/20 15:52 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 03/25/20 15:52 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 03/25/20 15:52 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/25/20 15:52 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/25/20 15:52 | 1330-20-7 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 03/25/20 15:52 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 15:52 | 95-47-6 | |
| Surrogates | | - | | | | | | | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 03/25/20 15:52 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 03/25/20 15:52 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 03/25/20 15:52 | 2037-26-5 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-10 | Lab ID: 4 | 40205127006 | Collected | l: 03/18/20 | 14:40 | Received: 03/ | 23/20 12:35 M | atrix: Water | |
|---------------------------|--------------|----------------|-------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical N | Method: EPA 6 | 020 Prepar | ation Metho | od: EPA | 3010 | | | |
| | Pace Analy | tical Services | - Green Bay | , | | | | | |
| Arsenic, Dissolved | 0.88J | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 16:22 | 7440-38-2 | |
| Barium, Dissolved | 102 | ug/L ug/L | 2.3 | 0.20 | 1 | | 03/27/20 16:22 | | |
| Cadmium, Dissolved | <0.15 | ug/L | 1.0 | 0.70 | 1 | | 03/27/20 16:22 | | |
| Chromium, Dissolved | <1.0 | ug/L | 3.4 | 1.0 | 1 | | 03/27/20 16:22 | | |
| Lead, Dissolved | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/27/20 16:22 | | |
| Selenium, Dissolved | 1.5 | ug/L ug/L | 1.1 | 0.24 | 1 | | 03/27/20 16:22 | | |
| Silver, Dissolved | <0.13 | ug/L | 0.50 | 0.32 | 1 | | 03/27/20 16:22 | | |
| Silver, Dissolved | <0.13 | ug/L | 0.50 | 0.13 | ' | 03/24/20 22.14 | 03/21/20 10.22 | 7440-22-4 | |
| 7470 Mercury, Dissolved | Analytical N | Method: EPA 7 | 470 Prepar | ation Metho | od: EPA | 7470 | | | |
| | Pace Analy | tical Services | - Green Bay | , | | | | | |
| Mercury, Dissolved | <0.084 | ug/L | 0.28 | 0.084 | 1 | 03/26/20 10:20 | 03/27/20 10:08 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | Analytical N | Method: EPA 8 | 270 by HVI | Preparatio | n Metho | od: EPA 3510 | | | |
| | - | tical Services | - | | | | | | |
| | • | | • | | _ | | | | |
| Acenaphthene | 0.074 | ug/L | 0.030 | 0.0060 | 1 | 03/24/20 09:04 | 03/26/20 12:57 | | |
| Acenaphthylene | 0.011J | ug/L | 0.024 | 0.0049 | 1 | 03/24/20 09:04 | 03/26/20 12:57 | | |
| Anthracene | <0.010 | ug/L | 0.051 | 0.010 | 1 | | 03/26/20 12:57 | - | |
| Benzo(a)anthracene | <0.0074 | ug/L | 0.037 | 0.0074 | 1 | 03/24/20 09:04 | | | |
| Benzo(a)pyrene | <0.010 | ug/L | 0.052 | 0.010 | 1 | | 03/26/20 12:57 | | |
| Benzo(b)fluoranthene | <0.0056 | ug/L | 0.028 | 0.0056 | 1 | | 03/26/20 12:57 | | |
| Benzo(g,h,i)perylene | <0.0066 | ug/L | 0.033 | 0.0066 | 1 | 03/24/20 09:04 | | | |
| Benzo(k)fluoranthene | <0.0074 | ug/L | 0.037 | 0.0074 | 1 | 03/24/20 09:04 | | | |
| Chrysene | <0.013 | ug/L | 0.064 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 12:57 | | |
| Dibenz(a,h)anthracene | <0.0098 | ug/L | 0.049 | 0.0098 | 1 | 03/24/20 09:04 | | | |
| Fluoranthene | <0.010 | ug/L | 0.052 | 0.010 | 1 | 03/24/20 09:04 | | | |
| Fluorene | 0.043 | ug/L | 0.039 | 0.0078 | 1 | 03/24/20 09:04 | | | |
| Indeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.086 | 0.017 | 1 | | 03/26/20 12:57 | | |
| 1-Methylnaphthalene | 0.090 | ug/L | 0.029 | 0.0058 | 1 | 03/24/20 09:04 | | | |
| 2-Methylnaphthalene | 0.0092J | ug/L | 0.024 | 0.0048 | 1 | | 03/26/20 12:57 | | |
| Naphthalene | 0.14 | ug/L | 0.090 | 0.018 | 1 | | 03/26/20 12:57 | | |
| Phenanthrene | <0.014 | ug/L | 0.068 | 0.014 | 1 | 03/24/20 09:04 | 03/26/20 12:57 | | |
| Pyrene | <0.0075 | ug/L | 0.038 | 0.0075 | 1 | 03/24/20 09:04 | 03/26/20 12:57 | 129-00-0 | |
| Surrogates | 00 | 0/ | 00.400 | | | 00/04/00 00 04 | 00/00/00 40 57 | 004.00.0 | |
| 2-Fluorobiphenyl (S) | 60 | % | 39-120 | | 1 | | 03/26/20 12:57 | | |
| Terphenyl-d14 (S) | 74 | % | 10-159 | | 1 | 03/24/20 09:04 | 03/26/20 12:57 | 1/18-51-0 | |
| 3260 MSV | • | Method: EPA 8 | | | | | | | |
| | Pace Analy | tical Services | - Green Bay | ′ | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 14:01 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 14:01 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 03/25/20 14:01 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/25/20 14:01 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/25/20 14:01 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/25/20 14:01 | | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 14:01 | 104-51-8 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

Sample: 1_MW-10 Lab ID: 40205127006 Collected: 03/18/20 14:40 Received: 03/23/20 12:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
|----------------------------|-----------------------|----------------|---------------|-------------|----|----------|----------------|----------|-----|
| 8260 MSV | Analytical | Method: EP/ | A 8260 | | | | | | |
| | Pace Analy | ytical Service | es - Green Ba | y | | | | | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 03/25/20 14:01 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 14:01 | 98-06-6 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 14:01 | | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 14:01 | | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 14:01 | | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 14:01 | | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/25/20 14:01 | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 03/25/20 14:01 | | |
| -Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 03/25/20 14:01 | | |
| ,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 03/25/20 14:01 | | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 03/25/20 14:01 | | |
| ,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 14:01 | | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 14:01 | | |
| .2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 14:01 | | |
| ,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 03/25/20 14:01 | | |
| ,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.03 | 1 | | 03/25/20 14:01 | | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 03/25/20 14:01 | | |
| .1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 14:01 | | |
| ,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 14:01 | | |
| ,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 14:01 | | |
| is-1,2-Dichloroethene | <0.27 | ug/L ug/L | 1.0 | 0.24 | 1 | | 03/25/20 14:01 | | |
| rans-1,2-Dichloroethene | <0.2 <i>1</i> <1.1 | ug/L ug/L | 3.6 | 1.1 | 1 | | 03/25/20 14:01 | | |
| ,2-Dichloropropane | <0.28 | ug/L ug/L | 1.0 | 0.28 | 1 | | 03/25/20 14:01 | | |
| ,3-Dichloropropane | <0.28 | ug/L ug/L | 2.8 | 0.28 | 1 | | 03/25/20 14:01 | | |
| · · | <2.3 | - | 7.6 | 2.3 | 1 | | 03/25/20 14:01 | | |
| 2,2-Dichloropropane | <2.3 <0.54 | ug/L | 1.8 | 2.3 0.54 | 1 | | 03/25/20 14:01 | | |
| ,1-Dichloropropene | | ug/L | | | 1 | | | | |
| is-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 03/25/20 14:01 | | |
| rans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 03/25/20 14:01 | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | | | 03/25/20 14:01 | | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 03/25/20 14:01 | | |
| Hexachloro-1,3-butadiene | <1.5 | ug/L | 4.9 | 1.5 | 1 | | 03/25/20 14:01 | | |
| sopropylbenzene (Cumene) | <1.7 | ug/L | 5.6 | 1.7 | 1 | | 03/25/20 14:01 | | |
| -Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 03/25/20 14:01 | | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 03/25/20 14:01 | | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 03/25/20 14:01 | | |
| laphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 03/25/20 14:01 | | |
| -Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 03/25/20 14:01 | | |
| styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 03/25/20 14:01 | | |
| ,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 14:01 | | |
| ,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 14:01 | | |
| etrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 03/25/20 14:01 | | |
| Toluene | <0.27 | ug/L | 0.90 | 0.27 | 1 | | 03/25/20 14:01 | | |
| ,2,3-Trichlorobenzene | <2.2 | ug/L | 7.4 | 2.2 | 1 | | 03/25/20 14:01 | | |
| ,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 03/25/20 14:01 | | L2 |
| I,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 14:01 | 71-55-6 | |

(920)469-2436



ANALYTICAL RESULTS

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-10 | Lab ID: | 40205127006 | Collecte | d: 03/18/20 | 14:40 | Received: 03 | 3/23/20 12:35 Ma | atrix: Water | |
|--------------------------|------------|-----------------|------------|-------------|-------|--------------|------------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Anal | ytical Services | - Green Ba | y | | | | | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/25/20 14:01 | 79-00-5 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 14:01 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 03/25/20 14:01 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 03/25/20 14:01 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 03/25/20 14:01 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 03/25/20 14:01 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/25/20 14:01 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/25/20 14:01 | 1330-20-7 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 03/25/20 14:01 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 14:01 | 95-47-6 | |
| Surrogates | | · · | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 03/25/20 14:01 | 460-00-4 | |
| Dibromofluoromethane (S) | 112 | % | 70-130 | | 1 | | 03/25/20 14:01 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 03/25/20 14:01 | 2037-26-5 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-14 | Lab ID: | 40205127007 | Collected | : 03/18/20 | 16:15 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|---------------------------|------------|-----------------|-------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepar | ation Metho | od: EPA | A 3010 | | | |
| | Pace Analy | ytical Services | - Green Bay | , | | | | | |
| Arsenic, Dissolved | 0.64J | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7440-38-2 | |
| Barium, Dissolved | 99.2 | ug/L | 2.3 | 0.70 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7440-39-3 | |
| Cadmium, Dissolved | <0.15 | ug/L | 1.0 | 0.15 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7440-43-9 | |
| Chromium, Dissolved | <1.0 | ug/L | 3.4 | 1.0 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7440-47-3 | |
| Lead, Dissolved | <0.24 | ug/L | 1.0 | 0.24 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7439-92-1 | |
| Selenium, Dissolved | 1.6 | ug/L | 1.1 | 0.32 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7782-49-2 | |
| Silver, Dissolved | <0.13 | ug/L | 0.50 | 0.13 | 1 | 03/24/20 22:14 | 03/27/20 17:45 | 7440-22-4 | |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepar | ation Metho | od: EPA | A 7470 | | | |
| | Pace Analy | ytical Services | - Green Bay | , | | | | | |
| Mercury, Dissolved | <0.084 | ug/L | 0.28 | 0.084 | 1 | 03/26/20 10:20 | 03/27/20 10:21 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| ., | - | ytical Services | - | | | | | | |
| Acenaphthene | 0.0089J | ug/L | 0.029 | 0.0059 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 83-32-9 | |
| Acenaphthylene | 0.056 | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 208-96-8 | |
| Anthracene | 0.075 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 120-12-7 | |
| Benzo(a)anthracene | 0.31 | ug/L | 0.037 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 56-55-3 | |
| Benzo(a)pyrene | 0.30 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.38 | ug/L | 0.028 | 0.0056 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 205-99-2 | |
| Benzo(g,h,i)perylene | 0.14 | ug/L | 0.033 | 0.0066 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 191-24-2 | |
| Benzo(k)fluoranthene | 0.19 | ug/L | 0.037 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 207-08-9 | |
| Chrysene | 0.37 | ug/L | 0.063 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 218-01-9 | |
| Dibenz(a,h)anthracene | 0.037J | ug/L | 0.049 | 0.0097 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 53-70-3 | |
| Fluoranthene | 0.77 | ug/L | 0.052 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 206-44-0 | |
| Fluorene | 0.049 | ug/L | 0.039 | 0.0077 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 0.14 | ug/L | 0.086 | 0.017 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 193-39-5 | |
| 1-Methylnaphthalene | 0.011J | ug/L | 0.029 | 0.0057 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 90-12-0 | |
| 2-Methylnaphthalene | 0.011J | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 91-57-6 | |
| Naphthalene | <0.018 | ug/L | 0.089 | 0.018 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 91-20-3 | |
| Phenanthrene | 0.50 | ug/L | 0.067 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 85-01-8 | |
| Pyrene | 0.61 | ug/L | 0.037 | 0.0074 | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 129-00-0 | |
| Surrogates | | Č | | | | | | | |
| 2-Fluorobiphenyl (S) | 56 | % | 39-120 | | 1 | 03/24/20 09:04 | 03/26/20 16:36 | 321-60-8 | |
| Terphenyl-d14 (S) | 73 | % | 10-159 | | 1 | 03/24/20 09:04 | | | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-17 | Lab ID: | 40205127008 | Collected | 03/19/20 | 11:05 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|-----------------------------|-------------------|------------------|-------------|-------------|--------|----------------|----------------|--------------|-----|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Metho | d: EPA | 3010 | | | |
| , | - | lytical Services | | | | | | | |
| Arsenic, Dissolved | 0.32J | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 02:46 | 7440-38-2 | |
| 3270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 bv HVI | Preparation | n Meth | od: EPA 3510 | | | |
| -, | - | lytical Services | - | | | | | | |
| Acenaphthene | 0.016J | ug/L | 0.029 | 0.0059 | 1 | 03/24/20 09:04 | 03/26/20 16:54 | 83-32-9 | |
| Acenaphthylene | 0.0060J | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | 03/26/20 16:54 | | |
| Anthracene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | | | |
| Benzo(a)anthracene | 0.0080J | ug/L | 0.037 | 0.0073 | 1 | 03/24/20 09:04 | | | |
| Benzo(a)pyrene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | | | |
| Benzo(b)fluoranthene | <0.0056 | ug/L | 0.028 | 0.0056 | 1 | 03/24/20 09:04 | | | |
| Benzo(g,h,i)perylene | <0.0066 | ug/L | 0.020 | 0.0066 | 1 | 03/24/20 09:04 | | | |
| Benzo(k)fluoranthene | <0.0073 | ug/L | 0.033 | 0.0000 | 1 | 03/24/20 09:04 | | | |
| Chrysene | <0.013 | ug/L | 0.063 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 16:54 | | |
| - | <0.013 | • | 0.049 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 16:54 | | |
| Dibenz(a,h)anthracene | <0.0097 <0.010 | ug/L | | | 1 | | | | |
| Fluoranthene | | ug/L | 0.052 | 0.010 | | 03/24/20 09:04 | | | |
| Fluorene | 0.0083J | ug/L | 0.039 | 0.0077 | 1 | 03/24/20 09:04 | | | |
| ndeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.086 | 0.017 | 1 | 03/24/20 09:04 | | | |
| -Methylnaphthalene | 0.025J | ug/L | 0.029 | 0.0057 | 1 | 03/24/20 09:04 | | | |
| 2-Methylnaphthalene | 0.010J | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | | | |
| Naphthalene | 0.087J | ug/L | 0.089 | 0.018 | 1 | 03/24/20 09:04 | | | |
| Phenanthrene | <0.013 | ug/L | 0.067 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 16:54 | | |
| Pyrene | 0.0075J | ug/L | 0.037 | 0.0074 | 1 | 03/24/20 09:04 | 03/26/20 16:54 | 129-00-0 | |
| Surrogates | 61 | 0/ | 20.420 | | 4 | 02/24/20 00:04 | 02/26/20 46:54 | 224 60 0 | |
| 2-Fluorobiphenyl (S) | 61 | % | 39-120 | | 1 | 03/24/20 09:04 | 03/26/20 16:54 | | |
| Terphenyl-d14 (S) | 81 | % | 10-159 | | 1 | 03/24/20 09:04 | 03/26/20 16:54 | 1718-51-0 | |
| 3260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 16:15 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:15 | 108-86-1 | |
| Bromochloromethane | < 0.36 | ug/L | 5.0 | 0.36 | 1 | | 03/25/20 16:15 | 74-97-5 | |
| Bromodichloromethane | < 0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/25/20 16:15 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/25/20 16:15 | 75-25-2 | |
| Bromomethane | < 0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/25/20 16:15 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 16:15 | 104-51-8 | |
| sec-Butylbenzene | < 0.85 | ug/L | 5.0 | 0.85 | 1 | | 03/25/20 16:15 | 135-98-8 | |
| ert-Butylbenzene | < 0.30 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 16:15 | 98-06-6 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 16:15 | | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 16:15 | | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 16:15 | | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 16:15 | | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/25/20 16:15 | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 03/25/20 16:15 | | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 03/25/20 16:15 | | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 03/25/20 16:15 | | |



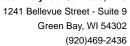
Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

Sample: 1_MW-17 Lab ID: 40205127008 Collected: 03/19/20 11:05 Received: 03/23/20 12:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------|------------|---------------|---------------|------------|----|----------|----------------|----------|------|
| 8260 MSV | Analytical | Method: EP/ | A 8260 | | | | | | |
| | Pace Anal | ytical Servic | es - Green Ba | y | | | | | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 03/25/20 16:15 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 16:15 | | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 16:15 | | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 16:15 | 95-50-1 | |
| 1,3-Dichlorobenzene | < 0.63 | ug/L | 2.1 | 0.63 | 1 | | 03/25/20 16:15 | | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 16:15 | | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 03/25/20 16:15 | | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 16:15 | | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 16:15 | | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:15 | | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 16:15 | | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 16:15 | | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 16:15 | | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 16:15 | | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 03/25/20 16:15 | | |
| 1,1-Dichloropropene | <0.54 | • | 1.8 | 0.54 | 1 | | 03/25/20 16:15 | | |
| ' ' | | ug/L | | 3.6 | 1 | | | | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 4.4 | 1 | | 03/25/20 16:15 | | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | | | | 03/25/20 16:15 | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 03/25/20 16:15 | | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 03/25/20 16:15 | | |
| Hexachloro-1,3-butadiene | <1.5 | ug/L | 4.9 | 1.5 | 1 | | 03/25/20 16:15 | | |
| Isopropylbenzene (Cumene) | <1.7 | ug/L | 5.6 | 1.7 | 1 | | 03/25/20 16:15 | | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 03/25/20 16:15 | | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 03/25/20 16:15 | | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 03/25/20 16:15 | | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 03/25/20 16:15 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 03/25/20 16:15 | 103-65-1 | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 03/25/20 16:15 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 16:15 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 16:15 | 79-34-5 | |
| Tetrachloroethene | < 0.33 | ug/L | 1.1 | 0.33 | 1 | | 03/25/20 16:15 | 127-18-4 | |
| Toluene | <0.27 | ug/L | 0.90 | 0.27 | 1 | | 03/25/20 16:15 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.2 | ug/L | 7.4 | 2.2 | 1 | | 03/25/20 16:15 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 03/25/20 16:15 | 120-82-1 | L2 |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:15 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/25/20 16:15 | 79-00-5 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 16:15 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 03/25/20 16:15 | | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 03/25/20 16:15 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 03/25/20 16:15 | | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 03/25/20 16:15 | | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/25/20 16:15 | | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/25/20 16:15 | | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 03/25/20 16:15 | | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 16:15 | | |





Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 1_MW-17 | Lab ID: | 40205127008 | Collecte | d: 03/19/2 | 20 11:05 | Received: 03 | /23/20 12:35 Ma | atrix: Water | |
|--------------------------|------------|------------------|------------|------------|----------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Ana | lytical Services | - Green Ba | у | | | | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 03/25/20 16:15 | 460-00-4 | |
| Dibromofluoromethane (S) | 110 | % | 70-130 | | 1 | | 03/25/20 16:15 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 03/25/20 16:15 | 2037-26-5 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-14 | Lab ID: | 40205127009 | Collecte | d: 03/19/20 | 11:50 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|------------------------|------------|-----------------|------------|-------------|--------|----------------|----------------|--------------|-------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| | Pace Ana | ytical Services | - Green Ba | y | | | | | |
| Acenaphthene | 0.012J | ug/L | 0.029 | 0.0059 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 83-32-9 | |
| Acenaphthylene | 0.0078J | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 208-96-8 | |
| Anthracene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 120-12-7 | |
| Benzo(a)anthracene | 0.0091J | ug/L | 0.037 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 56-55-3 | |
| Benzo(a)pyrene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.0089J | ug/L | 0.028 | 0.0056 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0066 | ug/L | 0.033 | 0.0066 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 191-24-2 | |
| Benzo(k)fluoranthene | < 0.0073 | ug/L | 0.037 | 0.0073 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 207-08-9 | |
| Chrysene | <0.013 | ug/L | 0.063 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0097 | ug/L | 0.049 | 0.0097 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 53-70-3 | |
| Fluoranthene | 0.040J | ug/L | 0.052 | 0.010 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 206-44-0 | |
| Fluorene | 0.019J | ug/L | 0.039 | 0.0077 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.086 | 0.017 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0057 | ug/L | 0.029 | 0.0057 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0048 | ug/L | 0.024 | 0.0048 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 91-57-6 | |
| Naphthalene | <0.018 | ug/L | 0.089 | 0.018 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 91-20-3 | |
| Phenanthrene | <0.013 | ug/L | 0.067 | 0.013 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 85-01-8 | |
| Pyrene | 0.027J | ug/L | 0.037 | 0.0074 | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 38 | % | 39-120 | | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 321-60-8 | 1q,S0 |
| Terphenyl-d14 (S) | 50 | % | 10-159 | | 1 | 03/24/20 09:04 | 03/26/20 17:12 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-11 | Lab ID: | 40205127010 | Collecte | d: 03/19/20 | 13:05 | Received: 03/ | 23/20 12:35 M | atrix: Water | |
|---------------------------|------------|-----------------|------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepa | ration Meth | od: EPA | A 3010 | | | |
| | Pace Anal | ytical Services | - Green Ba | у | | | | | |
| Arsenic, Dissolved | 7.5 | ug/L | 2.0 | 0.56 | 2 | 03/24/20 22:14 | 03/30/20 19:03 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparation | n Meth | od: EPA 3510 | | | |
| • | Pace Anal | ytical Services | - Green Ba | у | | | | | |
| Acenaphthene | 0.17 | ug/L | 0.029 | 0.0057 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 83-32-9 | |
| Acenaphthylene | <0.0047 | ug/L | 0.023 | 0.0047 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 208-96-8 | |
| Anthracene | <0.0099 | ug/L | 0.049 | 0.0099 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 120-12-7 | |
| Benzo(a)anthracene | <0.0071 | ug/L | 0.036 | 0.0071 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 56-55-3 | |
| Benzo(a)pyrene | <0.0099 | ug/L | 0.050 | 0.0099 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0054 | ug/L | 0.027 | 0.0054 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 205-99-2 | L1 |
| Benzo(g,h,i)perylene | <0.0064 | ug/L | 0.032 | 0.0064 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 191-24-2 | |
| Benzo(k)fluoranthene | < 0.0071 | ug/L | 0.036 | 0.0071 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 207-08-9 | |
| Chrysene | <0.012 | ug/L | 0.062 | 0.012 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0095 | ug/L | 0.047 | 0.0095 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 53-70-3 | |
| Fluoranthene | <0.010 | ug/L | 0.050 | 0.010 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 206-44-0 | |
| Fluorene | 0.024J | ug/L | 0.038 | 0.0075 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 86-73-7 | |
| ndeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.083 | 0.017 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 193-39-5 | L1 |
| 1-Methylnaphthalene | 0.0066J | ug/L | 0.028 | 0.0056 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0046 | ug/L | 0.023 | 0.0046 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 91-57-6 | |
| Naphthalene | <0.017 | ug/L | 0.086 | 0.017 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 91-20-3 | |
| Phenanthrene | < 0.013 | ug/L | 0.065 | 0.013 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 85-01-8 | |
| Pyrene | <0.0072 | ug/L | 0.036 | 0.0072 | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 129-00-0 | |
| Surrogates | | - | | | | | | | |
| 2-Fluorobiphenyl (S) | 56 | % | 39-120 | | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 321-60-8 | |
| Terphenyl-d14 (S) | 72 | % | 10-159 | | 1 | 03/26/20 07:05 | 03/26/20 22:09 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-45 | Lab ID: | 40205127011 | Collected | d: 03/19/20 | 14:05 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | _ |
|---------------------------|------------|-----------------|------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepa | ration Meth | od: EPA | A 3010 | | | |
| | Pace Anal | ytical Services | - Green Ba | y | | | | | |
| Arsenic, Dissolved | 1.4 | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 02:59 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| • | Pace Anal | ytical Services | - Green Ba | y | | | | | |
| Acenaphthene | 0.80 | ug/L | 0.10 | 0.020 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 83-32-9 | |
| Acenaphthylene | 4.8 | ug/L | 0.082 | 0.016 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 208-96-8 | |
| Anthracene | 1.2 | ug/L | 0.17 | 0.034 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 120-12-7 | |
| Benzo(a)anthracene | 0.33 | ug/L | 0.12 | 0.025 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 56-55-3 | |
| Benzo(a)pyrene | 0.42 | ug/L | 0.17 | 0.035 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.40 | ug/L | 0.095 | 0.019 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 205-99-2 | L1 |
| Benzo(g,h,i)perylene | 0.42 | ug/L | 0.11 | 0.022 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 191-24-2 | |
| Benzo(k)fluoranthene | 0.19 | ug/L | 0.12 | 0.025 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 207-08-9 | |
| Chrysene | 0.35 | ug/L | 0.22 | 0.043 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 218-01-9 | |
| Dibenz(a,h)anthracene | 0.054J | ug/L | 0.17 | 0.033 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 53-70-3 | |
| Fluoranthene | 1.2 | ug/L | 0.18 | 0.035 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 206-44-0 | |
| Fluorene | 2.9 | ug/L | 0.13 | 0.026 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 0.25J | ug/L | 0.29 | 0.058 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 193-39-5 | L1 |
| 1-Methylnaphthalene | 5.1 | ug/L | 0.097 | 0.019 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 90-12-0 | |
| 2-Methylnaphthalene | 6.5 | ug/L | 0.081 | 0.016 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 91-57-6 | |
| Naphthalene | 33.6 | ug/L | 0.30 | 0.060 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 91-20-3 | |
| Phenanthrene | 4.8 | ug/L | 0.23 | 0.045 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 85-01-8 | |
| Pyrene | 1.0 | ug/L | 0.13 | 0.025 | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 129-00-0 | |
| Surrogates | | - | | | | | | | |
| 2-Fluorobiphenyl (S) | 49 | % | 39-120 | | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 321-60-8 | |
| Terphenyl-d14 (S) | 57 | % | 10-159 | | 3 | 03/26/20 07:05 | 03/26/20 17:31 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-20 | Lab ID: | 40205127012 | Collected | d: 03/19/20 | 15:10 | Received: 03/23/20 12:35 Matrix: Water | | | |
|------------------------|------------|------------------|------------|-------------|--------|--|----------------|-----------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| | Pace Ana | lytical Services | - Green Ba | y | | | | | |
| Acenaphthene | < 0.0064 | ug/L | 0.032 | 0.0064 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 83-32-9 | |
| Acenaphthylene | < 0.0052 | ug/L | 0.026 | 0.0052 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.055 | 0.011 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 120-12-7 | |
| Benzo(a)anthracene | <0.0079 | ug/L | 0.040 | 0.0079 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.055 | 0.011 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0060 | ug/L | 0.030 | 0.0060 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 205-99-2 | L1 |
| Benzo(g,h,i)perylene | 0.014J | ug/L | 0.036 | 0.0071 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 191-24-2 | |
| Benzo(k)fluoranthene | < 0.0079 | ug/L | 0.040 | 0.0079 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 207-08-9 | |
| Chrysene | < 0.014 | ug/L | 0.069 | 0.014 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.011 | ug/L | 0.053 | 0.011 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 53-70-3 | |
| Fluoranthene | <0.011 | ug/L | 0.056 | 0.011 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 206-44-0 | |
| Fluorene | < 0.0084 | ug/L | 0.042 | 0.0084 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.093 | 0.019 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 193-39-5 | L1 |
| 1-Methylnaphthalene | < 0.0062 | ug/L | 0.031 | 0.0062 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 90-12-0 | |
| 2-Methylnaphthalene | < 0.0052 | ug/L | 0.026 | 0.0052 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 91-57-6 | |
| Naphthalene | <0.019 | ug/L | 0.096 | 0.019 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 91-20-3 | |
| Phenanthrene | <0.015 | ug/L | 0.073 | 0.015 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 85-01-8 | |
| Pyrene | <0.0081 | ug/L | 0.040 | 0.0081 | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 69 | % | 39-120 | | 1 | 03/26/20 07:05 | 03/27/20 11:24 | | |
| Terphenyl-d14 (S) | 75 | % | 10-159 | | 1 | 03/26/20 07:05 | 03/27/20 11:24 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-64 | Lab ID: | 40205127013 | Collected | d: 03/19/20 | 16:15 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|---------------------------|----------|---------------|-----------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | • | Method: EPA 6 | • | | od: EPA | A 3010 | | | |
| Arsenic, Dissolved | 4.3 | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 03:06 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | • | Method: EPA 8 | • | • | n Meth | od: EPA 3510 | | | |
| Acenaphthene | < 0.0070 | ug/L | 0.035 | 0.0070 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 83-32-9 | |
| Acenaphthylene | < 0.0057 | ug/L | 0.029 | 0.0057 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 208-96-8 | |
| Anthracene | <0.012 | ug/L | 0.060 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 120-12-7 | |
| Benzo(a)anthracene | <0.0087 | ug/L | 0.043 | 0.0087 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 56-55-3 | |
| Benzo(a)pyrene | <0.012 | ug/L | 0.060 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0066 | ug/L | 0.033 | 0.0066 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 205-99-2 | L1 |
| Benzo(g,h,i)perylene | 0.0079J | ug/L | 0.039 | 0.0078 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0087 | ug/L | 0.043 | 0.0087 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 207-08-9 | |
| Chrysene | <0.015 | ug/L | 0.075 | 0.015 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.012 | ug/L | 0.058 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 53-70-3 | |
| Fluoranthene | <0.012 | ug/L | 0.061 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 206-44-0 | |
| Fluorene | < 0.0092 | ug/L | 0.046 | 0.0092 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.020 | ug/L | 0.10 | 0.020 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 193-39-5 | L1 |
| 1-Methylnaphthalene | <0.0068 | ug/L | 0.034 | 0.0068 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0056 | ug/L | 0.028 | 0.0056 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 91-57-6 | |
| Naphthalene | <0.021 | ug/L | 0.11 | 0.021 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 91-20-3 | |
| Phenanthrene | <0.016 | ug/L | 0.079 | 0.016 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 85-01-8 | |
| Pyrene Surrogates | <0.0088 | ug/L | 0.044 | 0.0088 | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 57 | % | 39-120 | | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 321-60-8 | |
| Terphenyl-d14 (S) | 78 | % | 10-159 | | 1 | 03/26/20 07:05 | 03/27/20 12:14 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-27 | Lab ID: | 40205127014 | Collected | 03/20/20 | 09:50 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|-----------------------------|------------|------------------|-------------|-------------|---------|----------------|----------------|--------------|-----|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Metho | d: EPA | 3010 | | | |
| · | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Arsenic, Dissolved | <0.28 | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 03:13 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparation | n Metho | od: EPA 3510 | | | |
| • | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Acenaphthene | <0.0056 | ug/L | 0.028 | 0.0056 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 83-32-9 | |
| Acenaphthylene | < 0.0046 | ug/L | 0.023 | 0.0046 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Anthracene | < 0.0097 | ug/L | 0.048 | 0.0097 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Benzo(a)anthracene | < 0.0070 | ug/L | 0.035 | 0.0070 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Benzo(a)pyrene | <0.0098 | ug/L | 0.049 | 0.0098 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0053 | ug/L | 0.027 | 0.0053 | 1 | | 03/27/20 12:31 | | L1 |
| Benzo(g,h,i)perylene | < 0.0063 | ug/L | 0.031 | 0.0063 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Benzo(k)fluoranthene | < 0.0070 | ug/L | 0.035 | 0.0070 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 207-08-9 | |
| Chrysene | <0.012 | ug/L | 0.060 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Dibenz(a,h)anthracene | < 0.0093 | ug/L | 0.046 | 0.0093 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 53-70-3 | |
| Fluoranthene | < 0.0099 | ug/L | 0.049 | 0.0099 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Fluorene | < 0.0074 | ug/L | 0.037 | 0.0074 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 86-73-7 | |
| ndeno(1,2,3-cd)pyrene | <0.016 | ug/L | 0.082 | 0.016 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | L1 |
| I-Methylnaphthalene | <0.0055 | ug/L | 0.027 | 0.0055 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| 2-Methylnaphthalene | < 0.0045 | ug/L | 0.023 | 0.0045 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Naphthalene | <0.017 | ug/L | 0.085 | 0.017 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Phenanthrene | < 0.013 | ug/L | 0.064 | 0.013 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Pyrene | < 0.0071 | ug/L | 0.035 | 0.0071 | 1 | 03/26/20 07:05 | 03/27/20 12:31 | | |
| Surrogates | | 3 | | | | | | | |
| 2-Fluorobiphenyl (S) | 58 | % | 39-120 | | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 321-60-8 | |
| Terphenyl-d14 (S) | 83 | % | 10-159 | | 1 | 03/26/20 07:05 | 03/27/20 12:31 | 1718-51-0 | |
| 3260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 16:37 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:37 | 108-86-1 | |
| Bromochloromethane | < 0.36 | ug/L | 5.0 | 0.36 | 1 | | 03/25/20 16:37 | | |
| Bromodichloromethane | < 0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/25/20 16:37 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/25/20 16:37 | | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/25/20 16:37 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 16:37 | | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 03/25/20 16:37 | | |
| ert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 16:37 | | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 16:37 | | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 16:37 | | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 16:37 | | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 16:37 | | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/25/20 16:37 | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 03/25/20 16:37 | | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 03/25/20 16:37 | | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 03/25/20 16:37 | | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

1,3,5-Trimethylbenzene

Date: 04/01/2020 08:41 AM

Vinyl chloride

Xylene (Total)

m&p-Xylene

o-Xylene

<0.87

< 0.17

<1.5

<0.47

<0.26

ug/L

ug/L

ug/L

ug/L

ug/L

Sample: 3_MW-27 Lab ID: 40205127014 Collected: 03/20/20 09:50 Received: 03/23/20 12:35 Matrix: Water LOQ DF Results Units LOD CAS No. **Parameters** Prepared Analyzed Qual Analytical Method: EPA 8260 8260 MSV Pace Analytical Services - Green Bay Dibromochloromethane ug/L 8.7 2.6 03/25/20 16:37 124-48-1 <2.6 1 1,2-Dibromoethane (EDB) <0.83 ug/L 2.8 0.83 1 03/25/20 16:37 106-93-4 Dibromomethane <0.94 ug/L 3.1 0.94 1 03/25/20 16:37 74-95-3 1.2-Dichlorobenzene 03/25/20 16:37 95-50-1 <0.71 ug/L 2.4 0.71 1 1.3-Dichlorobenzene < 0.63 ug/L 2 1 0.63 1 03/25/20 16:37 541-73-1 1.4-Dichlorobenzene < 0.94 ug/L 3 1 0.94 1 03/25/20 16:37 106-46-7 Dichlorodifluoromethane < 0.50 ug/L 5.0 0.50 1 03/25/20 16:37 75-71-8 75-34-3 1.1-Dichloroethane < 0.27 ug/L 1.0 0.27 1 03/25/20 16:37 1,2-Dichloroethane <0.28 ug/L 1.0 0.28 1 03/25/20 16:37 107-06-2 1,1-Dichloroethene <0.24 ug/L 1.0 0.24 1 03/25/20 16:37 75-35-4 cis-1.2-Dichloroethene <0.27 1.0 0.27 03/25/20 16:37 156-59-2 ug/L 1 trans-1,2-Dichloroethene <1.1 ug/L 3.6 1.1 1 03/25/20 16:37 156-60-5 1,2-Dichloropropane <0.28 ug/L 1.0 0.28 1 03/25/20 16:37 78-87-5 1,3-Dichloropropane < 0.83 ug/L 2.8 0.83 1 03/25/20 16:37 142-28-9 2,2-Dichloropropane <2.3 ug/L 7.6 2.3 1 03/25/20 16:37 594-20-7 1,1-Dichloropropene < 0.54 ug/L 1.8 0.54 1 03/25/20 16:37 563-58-6 03/25/20 16:37 10061-01-5 cis-1,3-Dichloropropene < 3.6 ug/L 12.1 3.6 1 trans-1,3-Dichloropropene 14.6 4.4 03/25/20 16:37 10061-02-6 <4.4 ug/L 1 6.3 1.9 03/25/20 16:37 108-20-3 Diisopropyl ether <1.9 ug/L 1 Ethylbenzene <0.32 ug/L 1.1 0.32 1 03/25/20 16:37 100-41-4 Hexachloro-1,3-butadiene <1.5 ug/L 4.9 1.5 1 03/25/20 16:37 87-68-3 Isopropylbenzene (Cumene) 1.7 03/25/20 16:37 98-82-8 <1.7 ug/L 5.6 1 p-Isopropyltoluene <0.80 ug/L 2.7 0.80 1 03/25/20 16:37 99-87-6 0.58 Methylene Chloride <0.58 ug/L 5.0 1 03/25/20 16:37 75-09-2 ug/L Methyl-tert-butyl ether <1.2 4.2 1.2 1 03/25/20 16:37 1634-04-4 Naphthalene <1.2 ug/L 5.0 1.2 03/25/20 16:37 91-20-3 1 n-Propylbenzene < 0.81 5.0 0.81 03/25/20 16:37 103-65-1 ug/L 1 03/25/20 16:37 100-42-5 <3.0 10.0 3.0 Styrene ug/L 1 0.27 1,1,1,2-Tetrachloroethane <0.27 ug/L 1.0 03/25/20 16:37 630-20-6 1 0.28 1,1,2,2-Tetrachloroethane <0.28 ug/L 1.0 1 03/25/20 16:37 79-34-5 Tetrachloroethene 1.0J ug/L 1.1 0.33 1 03/25/20 16:37 127-18-4 Toluene <0.27 ug/L 0.90 0.27 1 03/25/20 16:37 108-88-3 1,2,3-Trichlorobenzene <2.2 ug/L 7.4 2.2 1 03/25/20 16:37 87-61-6 1,2,4-Trichlorobenzene < 0.95 ug/L 5.0 0.95 1 03/25/20 16:37 120-82-1 L2 1,1,1-Trichloroethane <0.24 ug/L 1.0 0.24 1 03/25/20 16:37 71-55-6 1.1.2-Trichloroethane < 0.55 ug/L 5.0 0.55 1 03/25/20 16:37 79-00-5 0.33J 0.26 Trichloroethene ug/L 1.0 1 03/25/20 16:37 79-01-6 0.21 Trichlorofluoromethane < 0.21 1.0 1 75-69-4 ug/L 03/25/20 16:37 < 0.59 5.0 0.59 1,2,3-Trichloropropane ug/L 1 03/25/20 16:37 96-18-4 1,2,4-Trimethylbenzene < 0.84 2.8 0.84 03/25/20 16:37 95-63-6 ug/L 1

REPORT OF LABORATORY ANALYSIS

2.9

1.0

3.0

2.0

1.0

0.87

0.17

0.47

0.26

1.5

1

1

1

1

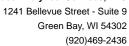
03/25/20 16:37 108-67-8

03/25/20 16:37 1330-20-7

03/25/20 16:37 179601-23-1

03/25/20 16:37 75-01-4

03/25/20 16:37 95-47-6





Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-27 | Lab ID: | 40205127014 | Collecte | d: 03/20/2 | 20 09:50 | Received: 03 | /23/20 12:35 Ma | atrix: Water | |
|--------------------------|------------|-----------------|------------|------------|----------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Anal | ytical Services | - Green Ba | у | | | | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 03/25/20 16:37 | 460-00-4 | |
| Dibromofluoromethane (S) | 113 | % | 70-130 | | 1 | | 03/25/20 16:37 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 03/25/20 16:37 | 2037-26-5 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Lab ID: | 40205127015 | Collected | l: 03/20/20 | 00:00 | Received: 03/ | 23/20 12:35 M | atrix: Water | |
|----------------|----------------------|---|--|---------|----------------|--|--------------|---|
| Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| Analytical | Method: EPA 6 | 020 Prepar | ation Metho | od: EPA | 3010 | | | |
| Pace Anal | ytical Services | - Green Bay | , | | | | | |
| <0.28 | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 03:20 | 7440-38-2 | |
| Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Metho | od: EPA 3510 | | | |
| • | | • | • | | | | | |
| <0.0056 | ug/L | 0.028 | 0.0056 | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 83-32-9 | |
| <0.0046 | ug/L | 0.023 | 0.0046 | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 208-96-8 | |
| <0.0097 | ug/L | 0.048 | 0.0097 | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 120-12-7 | |
| <0.0070 | ug/L | 0.035 | 0.0070 | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 56-55-3 | |
| <0.0098 | ug/L | 0.049 | 0.0098 | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 50-32-8 | |
| < 0.0053 | ug/L | 0.027 | 0.0053 | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 205-99-2 | L1 |
| < 0.0063 | | 0.031 | 0.0063 | 1 | | | | |
| <0.0070 | | 0.035 | 0.0070 | 1 | 03/26/20 07:05 | | | |
| <0.012 | • | | 0.012 | 1 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | - | | | | | | | L1 |
| | • | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | - | | | | | | | |
| <0.0071 | ug/L | 0.033 | 0.0071 | ' | 03/26/20 07.03 | 03/21/20 12.41 | 129-00-0 | |
| 50 | % | 30-120 | | 1 | 03/26/20 07:05 | 03/27/20 12:47 | 321-60-8 | |
| 85 | % | 10-159 | | 1 | | | | |
| Analytical | Mathod: EPA 8 | 260 | | | | | | |
| • | | | , | | | | | |
| <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 16:59 | 71-43-2 | |
| <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:59 | 108-86-1 | |
| <0.36 | J | | 0.36 | 1 | | | | |
| | • | | | 1 | | | | |
| | • | | | 1 | | | | |
| | - | | | | | | | |
| | | | | | | | | |
| | • | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Ū | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | 1 | | | | |
| <2.2 | ug/L | 7.3 | 2.2 | ı | | | | |
| .0.00 | /1 | - C | 0.00 | 4 | | 02/25/20 40:50 | OF 40 0 | |
| <0.93 <0.76 | ug/L ug/L | 5.0 2.5 | 0.93 0.76 | 1 1 | | 03/25/20 16:59 03/25/20 16:59 | | |
| - | Analytical Pace Anal | Analytical Method: EPA 66 Pace Analytical Services 40.28 ug/L Analytical Method: EPA 86 Pace Analytical Services 40.0056 ug/L 40.0056 ug/L 40.0097 ug/L 40.0098 ug/L 40.0053 ug/L 40.0063 ug/L 40.0070 ug/L 40.012 ug/L 40.0093 ug/L 40.0099 ug/L 40.0094 ug/L 40.0075 ug/L 40.0074 ug/L 40.0075 ug/L 40.0016 ug/L 40.0017 ug/L 40.0017 ug/L 40.013 ug/L 40.0011 ug/L 59 % 85 % Analytical Method: EPA 86 Pace Analytical Services 40.25 ug/L 40.36 ug/L 40.36 ug/L 40.36 ug/L 40.36 ug/L 40.37 ug/L 40.39 ug/L 40.39 ug/L 41.1 ug/L 40.31 ug/L 41.1 ug/L 41.3 ug/L 41.3 ug/L 41.3 ug/L 41.3 ug/L 41.3 ug/L | Analytical Method: EPA 6020 Prepar Pace Analytical Services - Green Bay <0.28 ug/L 1.0 Analytical Method: EPA 8270 by HVI Pace Analytical Services - Green Bay <0.0056 ug/L 0.028 <0.0046 ug/L 0.023 <0.0097 ug/L 0.048 <0.0070 ug/L 0.035 <0.0098 ug/L 0.027 <0.0063 ug/L 0.027 <0.0063 ug/L 0.031 <0.0070 ug/L 0.035 <0.0012 ug/L 0.035 <0.0012 ug/L 0.060 <0.0099 ug/L 0.049 <0.0099 ug/L 0.049 <0.0099 ug/L 0.049 <0.0099 ug/L 0.049 <0.0091 ug/L 0.035 <0.012 ug/L 0.060 <0.0093 ug/L 0.049 <0.0094 ug/L 0.037 <0.016 ug/L 0.082 <0.0074 ug/L 0.082 <0.0074 ug/L 0.085 ug/L 0.027 <0.0045 ug/L 0.023 <0.017 ug/L 0.085 <0.013 ug/L 0.064 <0.0071 ug/L 0.035 59 % 39-120 85 % 10-159 Analytical Method: EPA 8260 Pace Analytical Services - Green Bay <0.25 ug/L 1.0 <0.24 ug/L 1.0 <0.36 ug/L 5.0 <0.36 ug/L 5.0 <0.36 ug/L 5.0 <0.36 ug/L 5.0 <0.37 ug/L 5.0 <0.31 ug | Results | Results | Results Units LOQ LOD DF Prepared Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay 40.28 ug/L 1.0 0.28 1 03/24/20 22:14 Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay 40.0056 1 03/26/20 07:05 40.0046 1 03/26/20 07:05 40.0046 1 03/26/20 07:05 40.0046 1 03/26/20 07:05 40.0097 1 03/26/20 07:05 40.0097 1 03/26/20 07:05 40.0097 1 03/26/20 07:05 40.0098 1 03/26/20 07:05 40.0098 1 03/26/20 07:05 40.0098 1 03/26/20 07:05 40.0098 1 03/26/20 07:05 40.0098 1 03/26/20 07:05 40.0093 1 03/26/20 07:05 40.0093 1 03/26/20 07:05 40.0063 1 03/26/20 07:05 40.0063 1 03/26/20 07:05 40.0071 1 03/26/20 07:05 40.0072 0.0083 1 03/26/20 07:05 40.0093 | Results | Results Units LOQ LOD DF Prepared Analyzed CAS No. Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay 40.28 ug/L 1.0 0.28 1 03/24/20 22:14 03/27/20 03:20 7440-38-2 Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay 40.0056 ug/L 0.028 0.0056 1 03/26/20 07:05 03/27/20 12:47 83-32-9 40.0056 ug/L 0.028 0.0056 1 03/26/20 07:05 03/27/20 12:47 20-12-7 40.0070 ug/L 0.048 0.0097 1 03/26/20 07:05 03/27/20 12:47 20-12-7 40.0070 ug/L 0.048 0.0098 1 03/26/20 07:05 03/27/20 12:47 20-12-7 40.0053 ug/L 0.049 0.0098 1 03/26/20 07:05 03/27/20 12:47 20-12-8 40.0070 ug/L 0.031 0.0063 1 03/26/20 07:05 03/27/20 12:47 20-70-8-9 < |



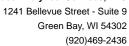
Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

Sample: 3_MW-27D Lab ID: 40205127015 Collected: 03/20/20 00:00 Received: 03/23/20 12:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------|---------------|----------------|---------------|-------------|----|----------|----------------|-------------|------|
| 8260 MSV | Analytical | Method: EPA | A 8260 | | | | | | |
| | Pace Anal | ytical Service | es - Green Ba | у | | | | | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 03/25/20 16:59 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 16:59 | | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 16:59 | | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 16:59 | | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 03/25/20 16:59 | | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 03/25/20 16:59 | | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 03/25/20 16:59 | | |
| 1.1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 16:59 | | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 16:59 | | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:59 | | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 16:59 | | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 16:59 | | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 16:59 | | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 16:59 | | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 03/25/20 16:59 | | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 03/25/20 16:59 | | |
| cis-1,3-Dichloropropene | <3.6 | ug/L ug/L | 12.1 | 3.6 | 1 | | 03/25/20 16:59 | | |
| trans-1,3-Dichloropropene | <4.4 | ug/L ug/L | 14.6 | 4.4 | 1 | | | | |
| Diisopropyl ether | <1.9 | ug/L ug/L | 6.3 | 1.9 | 1 | | 03/25/20 16:59 | | |
| | <0.32 | - | 1.1 | 0.32 | 1 | | 03/25/20 16:59 | | |
| Ethylbenzene | <0.32 <1.5 | ug/L | | 1.5 | 1 | | | | |
| Hexachloro-1,3-butadiene | | ug/L | 4.9 | | | | 03/25/20 16:59 | | |
| Isopropylbenzene (Cumene) | <1.7 | ug/L | 5.6 | 1.7 0.80 | 1 | | 03/25/20 16:59 | | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | | 1 | | 03/25/20 16:59 | | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 03/25/20 16:59 | | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 03/25/20 16:59 | | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 03/25/20 16:59 | | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 03/25/20 16:59 | | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 03/25/20 16:59 | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 03/25/20 16:59 | | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 16:59 | | |
| Tetrachloroethene | 1.1 | ug/L | 1.1 | 0.33 | 1 | | 03/25/20 16:59 | _ | |
| Toluene | <0.27 | ug/L | 0.90 | 0.27 | 1 | | 03/25/20 16:59 | | |
| 1,2,3-Trichlorobenzene | <2.2 | ug/L | 7.4 | 2.2 | 1 | | 03/25/20 16:59 | | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 03/25/20 16:59 | | L2 |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 16:59 | | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/25/20 16:59 | | |
| Trichloroethene | 0.45J | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 16:59 | | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 03/25/20 16:59 | | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 03/25/20 16:59 | | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 03/25/20 16:59 | | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 03/25/20 16:59 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/25/20 16:59 | 75-01-4 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/25/20 16:59 | 1330-20-7 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 03/25/20 16:59 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/25/20 16:59 | 95-47-6 | |





Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-27D | Lab ID: | 40205127015 | Collecte | d: 03/20/2 | 20 00:00 | Received: 03 | /23/20 12:35 Ma | atrix: Water | |
|--------------------------|----------|------------------|------------|------------|----------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | • | Method: EPA 8 | | | | | | | |
| | Pace Ana | lytical Services | - Green Ba | у | | | | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 03/25/20 16:59 | 460-00-4 | |
| Dibromofluoromethane (S) | 114 | % | 70-130 | | 1 | | 03/25/20 16:59 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 03/25/20 16:59 | 2037-26-5 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-77 | Lab ID: | 40205127016 | Collected | d: 03/20/20 | 11:35 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|-----------------------------|------------|-----------------|-------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepar | ation Metho | od: EPA | 3010 | | | |
| | Pace Anal | ytical Services | - Green Bay | / | | | | | |
| Arsenic, Dissolved | 0.92J | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 17:58 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| | Pace Anal | ytical Services | - Green Bay | / | | | | | |
| Acenaphthene | <0.0057 | ug/L | 0.028 | 0.0057 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 83-32-9 | |
| Acenaphthylene | <0.0047 | ug/L | 0.023 | 0.0047 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 208-96-8 | |
| Anthracene | <0.0098 | ug/L | 0.049 | 0.0098 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 120-12-7 | |
| Benzo(a)anthracene | <0.0071 | ug/L | 0.035 | 0.0071 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 56-55-3 | |
| Benzo(a)pyrene | <0.0098 | ug/L | 0.049 | 0.0098 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0054 | ug/L | 0.027 | 0.0054 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 205-99-2 | L1 |
| Benzo(g,h,i)perylene | < 0.0063 | ug/L | 0.032 | 0.0063 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 191-24-2 | |
| Benzo(k)fluoranthene | < 0.0071 | ug/L | 0.035 | 0.0071 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 207-08-9 | |
| Chrysene | <0.012 | ug/L | 0.061 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0094 | ug/L | 0.047 | 0.0094 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 53-70-3 | |
| Fluoranthene | <0.010 | ug/L | 0.050 | 0.010 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 206-44-0 | |
| Fluorene | < 0.0074 | ug/L | 0.037 | 0.0074 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.016 | ug/L | 0.082 | 0.016 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 193-39-5 | L1 |
| 1-Methylnaphthalene | 0.017J | ug/L | 0.028 | 0.0055 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 90-12-0 | |
| 2-Methylnaphthalene | 0.0077J | ug/L | 0.023 | 0.0046 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 91-57-6 | |
| Naphthalene | <0.017 | ug/L | 0.086 | 0.017 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 91-20-3 | |
| Phenanthrene | <0.013 | ug/L | 0.064 | 0.013 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 85-01-8 | |
| Pyrene Surrogates | <0.0071 | ug/L | 0.036 | 0.0071 | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 48 | % | 39-120 | | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 321-60-8 | |
| Terphenyl-d14 (S) | 82 | % | 10-159 | | 1 | 03/26/20 07:05 | 03/27/20 13:04 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-72 | Lab ID: | 40205127017 | Collected | d: 03/20/20 | 12:50 | Received: 03/ | 23/20 12:35 Ma | atrix: Water | |
|---------------------------|------------|-----------------|------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepa | ration Meth | od: EPA | A 3010 | | | |
| | Pace Anal | ytical Services | - Green Ba | y | | | | | |
| Arsenic, Dissolved | 0.44J | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 03:48 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparation | n Meth | od: EPA 3510 | | | |
| | Pace Anal | ytical Services | - Green Ba | y | | | | | |
| Acenaphthene | < 0.0067 | ug/L | 0.033 | 0.0067 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 83-32-9 | |
| Acenaphthylene | <0.0055 | ug/L | 0.027 | 0.0055 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 120-12-7 | |
| Benzo(a)anthracene | <0.0083 | ug/L | 0.041 | 0.0083 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 56-55-3 | |
| Benzo(a)pyrene | <0.012 | ug/L | 0.058 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0063 | ug/L | 0.032 | 0.0063 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 205-99-2 | L1 |
| Benzo(g,h,i)perylene | <0.0075 | ug/L | 0.037 | 0.0075 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0083 | ug/L | 0.041 | 0.0083 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 207-08-9 | |
| Chrysene | <0.014 | ug/L | 0.072 | 0.014 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.011 | ug/L | 0.055 | 0.011 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 53-70-3 | |
| Fluoranthene | <0.012 | ug/L | 0.059 | 0.012 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 206-44-0 | |
| Fluorene | <0.0088 | ug/L | 0.044 | 0.0088 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.097 | 0.019 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 193-39-5 | L1 |
| 1-Methylnaphthalene | < 0.0065 | ug/L | 0.032 | 0.0065 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 90-12-0 | |
| 2-Methylnaphthalene | < 0.0054 | ug/L | 0.027 | 0.0054 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 91-57-6 | |
| Naphthalene | 0.020J | ug/L | 0.10 | 0.020 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 91-20-3 | |
| Phenanthrene | <0.015 | ug/L | 0.076 | 0.015 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 85-01-8 | |
| Pyrene | <0.0084 | ug/L | 0.042 | 0.0084 | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 129-00-0 | |
| Surrogates | | - | | | | | | | |
| 2-Fluorobiphenyl (S) | 61 | % | 39-120 | | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 321-60-8 | |
| Terphenyl-d14 (S) | 80 | % | 10-159 | | 1 | 03/26/20 07:05 | 03/27/20 13:21 | 1718-51-0 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-58 | Lab ID: | 40205127018 | Collected | 1: 03/20/20 | 14:45 | Received: 03/ | 23/20 12:35 M | atrix: Water | |
|-----------------------------|--------------|-----------------|-------------|-------------|------------|------------------|----------------------------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepar | ation Meth | od: EPA | 3010 | | | |
| | Pace Anal | ytical Services | - Green Bay | , | | | | | |
| Arsenic, Dissolved | 3.8 | ug/L | 1.0 | 0.28 | 1 | 03/24/20 22:14 | 03/27/20 18:05 | 7440-38-2 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparation | n Meth | od: EPA 3510 | | | |
| 02.0 m001.7m by 1111 | | ytical Services | - | | | ou. <u>-</u> ooo | | | |
| Acenaphthene | 3.8 | ug/L | 0.74 | 0.15 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 83-32-9 | |
| Acenaphthylene | 2.6 | ug/L | 0.60 | 0.12 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 208-96-8 | |
| Anthracene | 0.85J | ug/L | 1.3 | 0.25 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 120-12-7 | |
| Benzo(a)anthracene | <0.18 | ug/L | 0.92 | 0.18 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 56-55-3 | |
| Benzo(a)pyrene | <0.26 | ug/L | 1.3 | 0.26 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.14 | ug/L | 0.70 | 0.14 | 25 | 03/26/20 07:05 | | | L1 |
| Benzo(g,h,i)perylene | <0.16 | ug/L | 0.82 | 0.16 | 25 | 03/26/20 07:05 | | | |
| Benzo(k)fluoranthene | <0.18 | ug/L | 0.92 | 0.18 | 25 | 03/26/20 07:05 | | | |
| Chrysene | <0.32 | ug/L | 1.6 | 0.32 | 25 | 03/26/20 07:05 | | | |
| Dibenz(a,h)anthracene | <0.24 | ug/L | 1.2 | 0.24 | 25 | 03/26/20 07:05 | | | |
| Fluoranthene | <0.26 | ug/L | 1.3 | 0.26 | 25 | 03/26/20 07:05 | | | |
| Fluorene | 7.2 | ug/L ug/L | 0.97 | 0.20 | 25 | 03/26/20 07:05 | | | |
| Indeno(1,2,3-cd)pyrene | <0.43 | - | 2.1 | 0.19 | 25 | 03/26/20 07:05 | | | L1 |
| 7. 7 | <0.43 146 | ug/L | 0.72 | 0.43 | 25 25 | 03/26/20 07:05 | | | LI |
| 1-Methylnaphthalene | | ug/L | | | | 03/26/20 07:05 | | | |
| 2-Methylnaphthalene | 182 | ug/L | 0.59 | 0.12 | 25 | | | | |
| Naphthalene | 6.0 | ug/L | 2.2 | 0.44 | 25 | 03/26/20 07:05 | | | |
| Phenanthrene | 9.8 | ug/L | 1.7 | 0.33 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | | |
| Pyrene | 0.40J | ug/L | 0.93 | 0.19 | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 129-00-0 | |
| Surrogates | 0 | 0/ | 20.420 | | 0.5 | 00/00/00 07:05 | 00/00/00 47:40 | 204 60 0 | C4 |
| 2-Fluorobiphenyl (S) | 0 | % | 39-120 | | 25 | 03/26/20 07:05 | 03/26/20 17:49 | | S4 |
| Terphenyl-d14 (S) | 0 | % | 10-159 | | 25 | 03/26/20 07:05 | 03/26/20 17:49 | 1/18-51-0 | S4 |
| 8260 MSV | - | Method: EPA 8 | | | | | | | |
| | Pace Anal | ytical Services | - Green Bay | ′ | | | | | |
| Benzene | 15.3 | ug/L | 2.5 | 0.62 | 2.5 | | 03/25/20 18:06 | 71-43-2 | |
| Bromobenzene | <0.60 | ug/L | 2.5 | 0.60 | 2.5 | | 03/25/20 18:06 | 108-86-1 | |
| Bromochloromethane | <0.91 | ug/L | 12.5 | 0.91 | 2.5 | | 03/25/20 18:06 | 74-97-5 | |
| Bromodichloromethane | <0.91 | ug/L | 3.0 | 0.91 | 2.5 | | 03/25/20 18:06 | 75-27-4 | |
| Bromoform | <9.9 | ug/L | 33.1 | 9.9 | 2.5 | | 03/25/20 18:06 | | |
| Bromomethane | <2.4 | ug/L | 12.5 | 2.4 | 2.5 | | 03/25/20 18:06 | | |
| n-Butylbenzene | 19.3 | ug/L | 5.9 | 1.8 | 2.5 | | 03/25/20 18:06 | | |
| sec-Butylbenzene | 7.7J | ug/L | 12.5 | 2.1 | 2.5 | | 03/25/20 18:06 | | |
| tert-Butylbenzene | <0.76 | ug/L | 2.5 | 0.76 | 2.5 | | 03/25/20 18:06 | | |
| Carbon tetrachloride | <2.7 | ug/L | 9.0 | 2.7 | 2.5 | | 03/25/20 18:06 | | |
| Chlorobenzene | <1.8 | ug/L ug/L | 5.9 | 1.8 | 2.5 | | 03/25/20 18:06 | | |
| Chloroethane | <3.4 | ug/L ug/L | 12.5 | 3.4 | 2.5 | | 03/25/20 18:06 | | |
| Chloroform | <3.4 <3.2 | - | 12.5 | 3.4 | 2.5 | | 03/25/20 18:06 | | |
| Chloromethane | <5.2 <5.5 | ug/L | 18.2 | 3.2 5.5 | 2.5 2.5 | | | | |
| | | ug/L | | | | | 03/25/20 18:06 | | |
| 2-Chlorotoluene | <2.3 | ug/L | 12.5 | 2.3 | 2.5 | | 03/25/20 18:06 | | |
| 4-Chlorotoluene | <1.9 | ug/L | 6.3 | 1.9 | 2.5 | | 03/25/20 18:06 03/25/20 18:06 | | |
| 1,2-Dibromo-3-chloropropane | <4.4 | ug/L | 14.7 | 4.4 | 2.5 | | | | |

Matrix: Water



ANALYTICAL RESULTS

Collected: 03/20/20 14:45

Received: 03/23/20 12:35

Lab ID: 40205127018

< 0.61

<1.4

< 0.64

<0.54

<1.5

279

79.6

< 0.44

263

260

3.1

ug/L

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Sample: 3_MW-58

1,1,1-Trichloroethane

1.1.2-Trichloroethane

Trichlorofluoromethane

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Date: 04/01/2020 08:41 AM

Trichloroethene

Vinyl chloride

Xylene (Total)

m&p-Xylene

o-Xylene

LOQ DF Results Units LOD Prepared CAS No. **Parameters** Analyzed Qual Analytical Method: EPA 8260 8260 MSV Pace Analytical Services - Green Bay Dibromochloromethane <6.5 ug/L 21.7 6.5 2.5 03/25/20 18:06 124-48-1 1,2-Dibromoethane (EDB) <2.1 ug/L 6.9 2.1 2.5 03/25/20 18:06 106-93-4 Dibromomethane <2.3 ug/L 7.8 2.3 2.5 03/25/20 18:06 74-95-3 1.2-Dichlorobenzene <1.8 ug/L 5.9 1.8 2.5 03/25/20 18:06 95-50-1 1.3-Dichlorobenzene <1.6 ug/L 52 16 2.5 03/25/20 18:06 541-73-1 1.4-Dichlorobenzene <2.4 ug/L 7.9 24 2.5 03/25/20 18:06 106-46-7 Dichlorodifluoromethane <1.2 ug/L 12.5 1.2 2.5 03/25/20 18:06 75-71-8 03/25/20 18:06 75-34-3 1.1-Dichloroethane < 0.68 ug/L 2.5 0.68 2.5 03/25/20 18:06 107-06-2 1,2-Dichloroethane <0.70 ug/L 2.5 0.70 2.5 1,1-Dichloroethene < 0.61 ug/L 2.5 0.61 2.5 03/25/20 18:06 75-35-4 cis-1.2-Dichloroethene < 0.68 2.5 0.68 2.5 03/25/20 18:06 156-59-2 ug/L trans-1,2-Dichloroethene <2.7 ug/L 9.1 2.7 2.5 03/25/20 18:06 156-60-5 1,2-Dichloropropane < 0.71 ug/L 2.5 0.71 2.5 03/25/20 18:06 78-87-5 1,3-Dichloropropane <2.1 ug/L 6.9 2.1 2.5 03/25/20 18:06 142-28-9 2,2-Dichloropropane <5.7 ug/L 18.9 5.7 2.5 03/25/20 18:06 594-20-7 2.5 1,1-Dichloropropene <1.4 ug/L 4.5 1.4 03/25/20 18:06 563-58-6 03/25/20 18:06 10061-01-5 30.2 9 1 cis-1,3-Dichloropropene <9.1 ug/L 2.5 03/25/20 18:06 10061-02-6 trans-1,3-Dichloropropene <10.9 36.4 10.9 2.5 ug/L 4.7 2.5 03/25/20 18:06 108-20-3 Diisopropyl ether <4.7 ug/L 15.7 Ethylbenzene 112 ug/L 2.7 0.80 2.5 03/25/20 18:06 100-41-4 Hexachloro-1,3-butadiene <3.7 ug/L 12.2 3.7 2.5 03/25/20 18:06 87-68-3 Isopropylbenzene (Cumene) 15.5 14.0 4.2 2.5 03/25/20 18:06 98-82-8 ug/L p-Isopropyltoluene 3.5J ug/L 6.7 2.0 2.5 03/25/20 18:06 99-87-6 Methylene Chloride <1.5 ug/L 12.5 1.5 2.5 03/25/20 18:06 75-09-2 Methyl-tert-butyl ether <3.1 ug/L 10.4 3.1 2.5 03/25/20 18:06 1634-04-4 Naphthalene <2.9 ug/L 12.5 2.9 2.5 03/25/20 18:06 91-20-3 2.0 n-Propylbenzene 29.7 12.5 2.5 03/25/20 18:06 103-65-1 ug/L Styrene <7.5 25.1 7.5 2.5 03/25/20 18:06 100-42-5 ug/L <0.67 ug/L 2.5 0.67 2.5 1,1,1,2-Tetrachloroethane 03/25/20 18:06 630-20-6 < 0.69 0.69 2.5 1,1,2,2-Tetrachloroethane ug/L 2.5 03/25/20 18:06 79-34-5 Tetrachloroethene 1.2J ug/L 2.7 0.82 2.5 03/25/20 18:06 127-18-4 Toluene 1.9J ug/L 2.2 0.67 2.5 03/25/20 18:06 108-88-3 1,2,3-Trichlorobenzene <5.5 ug/L 18.4 5.5 2.5 03/25/20 18:06 87-61-6 1,2,4-Trichlorobenzene <2.4 ug/L 12.5 2.4 2.5 03/25/20 18:06 120-82-1 L2

REPORT OF LABORATORY ANALYSIS

2.5

12.5

2.5

2.5

12.5

7.0

7.3

2.5

7.5

5.0

2.5

0.61

0.64

0.54

1.5

2.1

2.2

0.44

3.8

1.2

0.65

1.4

2.5

2.5

2.5

2.5

2.5

2.5

2.5

2.5

2.5

2.5

2.5

03/25/20 18:06 71-55-6

03/25/20 18:06 79-01-6

03/25/20 18:06 96-18-4

03/25/20 18:06 95-63-6

03/25/20 18:06 75-01-4

03/25/20 18:06 95-47-6

03/25/20 18:06 108-67-8

03/25/20 18:06 1330-20-7

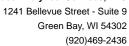
03/25/20 18:06 179601-23-1

03/25/20 18:06

03/25/20 18:06

79-00-5

75-69-4





Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Sample: 3_MW-58 | Lab ID: | 40205127018 | Collecte | d: 03/20/2 | 20 14:45 | Received: 03 | /23/20 12:35 Ma | atrix: Water | |
|--------------------------|------------|-----------------|------------|------------|----------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Anal | ytical Services | - Green Ba | у | | | | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | | 2.5 | | 03/25/20 18:06 | 460-00-4 | |
| Dibromofluoromethane (S) | 110 | % | 70-130 | | 2.5 | | 03/25/20 18:06 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 2.5 | | 03/25/20 18:06 | 2037-26-5 | |



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

Sample: TB-1 Lab ID: 40205127019 Collected: 03/20/20 00:00 Received: 03/23/20 12:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|------------|---------------|---------------|-------------|--------|----------|----------------|----------|------|
| 8260 MSV | Analytical | Method: EPA | A 8260 | | | | | | |
| | Pace Analy | tical Service | es - Green Ba | y | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/25/20 14:23 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/25/20 14:23 | | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 03/25/20 14:23 | | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/25/20 14:23 | | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/25/20 14:23 | | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/25/20 14:23 | | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 14:23 | | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 03/25/20 14:23 | | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 14:23 | | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 03/25/20 14:23 | | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 03/25/20 14:23 | | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 14:23 | | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/25/20 14:23 | | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/25/20 14:23 | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 03/25/20 14:23 | | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 03/25/20 14:23 | | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 03/25/20 14:23 | | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 03/25/20 14:23 | | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 14:23 | | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.03 | 1 | | 03/25/20 14:23 | | |
| 1,2-Dichlorobenzene | <0.71 | ug/L ug/L | 2.4 | 0.94 | 1 | | 03/25/20 14:23 | | |
| • | <0.63 | • | 2.4 | 0.63 | 1 | | 03/25/20 14:23 | | |
| 1,3-Dichlorobenzene 1,4-Dichlorobenzene | <0.94 | ug/L ug/L | 3.1 | 0.63 | 1 | | 03/25/20 14:23 | | |
| Dichlorodifluoromethane | <0.50 | - | 5.0 | 0.50 | 1 | | 03/25/20 14:23 | | |
| 1,1-Dichloroethane | | ug/L | 1.0 | 0.30 | 1 | | 03/25/20 14:23 | | |
| • | <0.27 | ug/L | | | | | | | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 14:23 | | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 1 | | 03/25/20 14:23 | | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 1.1 | 1 | | 03/25/20 14:23 | | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | | | | 03/25/20 14:23 | | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/25/20 14:23 | | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 03/25/20 14:23 | | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 03/25/20 14:23 | | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 03/25/20 14:23 | | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 03/25/20 14:23 | | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 03/25/20 14:23 | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 03/25/20 14:23 | | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 03/25/20 14:23 | | |
| Hexachloro-1,3-butadiene | <1.5 | ug/L | 4.9 | 1.5 | 1 | | 03/25/20 14:23 | | |
| Isopropylbenzene (Cumene) | <1.7 | ug/L | 5.6 | 1.7 | 1 | | 03/25/20 14:23 | | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 03/25/20 14:23 | | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 03/25/20 14:23 | | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 03/25/20 14:23 | | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 03/25/20 14:23 | | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 03/25/20 14:23 | | |
| Styrene | <3.0 | ug/L | 10.0 | 3.0 | 1 | | 03/25/20 14:23 | 100-42-5 | |

03/25/20 14:23 1868-53-7

03/25/20 14:23 2037-26-5



ANALYTICAL RESULTS

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Dibromofluoromethane (S)

Date: 04/01/2020 08:41 AM

Toluene-d8 (S)

Sample: TB-1 Collected: 03/20/20 00:00 Received: 03/23/20 12:35 Lab ID: 40205127019 Matrix: Water LOQ LOD DF Results Units Prepared CAS No. **Parameters** Analyzed Qual Analytical Method: EPA 8260 8260 MSV Pace Analytical Services - Green Bay 1,1,1,2-Tetrachloroethane <0.27 ug/L 1.0 0.27 1 03/25/20 14:23 630-20-6 0.28 03/25/20 14:23 79-34-5 1,1,2,2-Tetrachloroethane <0.28 ug/L 1.0 1 Tetrachloroethene < 0.33 ug/L 1.1 0.33 1 03/25/20 14:23 127-18-4 Toluene < 0.27 ug/L 0.90 0.27 1 03/25/20 14:23 108-88-3 1,2,3-Trichlorobenzene <2.2 ug/L 7.4 2.2 03/25/20 14:23 87-61-6 1 1,2,4-Trichlorobenzene <0.95 ug/L 5.0 0.95 1 03/25/20 14:23 120-82-1 12 1,1,1-Trichloroethane <0.24 ug/L 1.0 0.24 1 03/25/20 14:23 71-55-6 03/25/20 14:23 79-00-5 1,1,2-Trichloroethane < 0.55 ug/L 5.0 0.55 1 Trichloroethene <0.26 ug/L 1.0 0.26 1 03/25/20 14:23 79-01-6 Trichlorofluoromethane <0.21 ug/L 1.0 0.21 1 03/25/20 14:23 75-69-4 1,2,3-Trichloropropane <0.59 ug/L 5.0 0.59 03/25/20 14:23 96-18-4 1,2,4-Trimethylbenzene < 0.84 0.84 03/25/20 14:23 95-63-6 ug/L 2.8 1 1,3,5-Trimethylbenzene <0.87 2.9 0.87 03/25/20 14:23 108-67-8 ug/L 1 Vinyl chloride <0.17 ug/L 1.0 0.17 1 03/25/20 14:23 75-01-4 Xylene (Total) <1.5 ug/L 3.0 1.5 1 03/25/20 14:23 1330-20-7 03/25/20 14:23 179601-23-1 0.47 m&p-Xylene <0.47 ug/L 2.0 1 o-Xylene <0.26 0.26 03/25/20 14:23 95-47-6 ug/L 1.0 1 Surrogates 4-Bromofluorobenzene (S) 89 % 70-130 1 03/25/20 14:23 460-00-4

70-130

70-130

1

1

106

102

%

%

(920)469-2436



QUALITY CONTROL DATA

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

QC Batch: 351034 Analysis Method: EPA 7470

QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40205127003, 40205127004, 40205127005, 40205127006, 40205127007

METHOD BLANK: 2032974 Matrix: Water

Associated Lab Samples: 40205127003, 40205127004, 40205127005, 40205127006, 40205127007

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Mercury, Dissolved ug/L <0.084 0.28 03/27/20 10:03

LABORATORY CONTROL SAMPLE: 2032975

Parameter Units Spike LCS LCS % Rec
Conc. Result % Rec Limits Qualifiers

Mercury, Dissolved ug/L 5 5.2 104 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2032976 2032977

MS MSD

40205127006 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits Mercury, Dissolved <0.084 5 ug/L 5 5.1 4.9 102 99 85-115 3 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

QC Batch: 350865 Analysis Method: EPA 6020

QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40205127001, 40205127002, 40205127003, 40205127004, 40205127005, 40205127006, 40205127007,

40205127008, 40205127010, 40205127011, 40205127013, 40205127014, 40205127015, 40205127016, 402

40205127017, 40205127018

METHOD BLANK: 2032218 Matrix: Water

Associated Lab Samples: 40205127001, 40205127002, 40205127003, 40205127004, 40205127005, 40205127006, 40205127007,

40205127008, 40205127010, 40205127011, 40205127013, 40205127014, 40205127015, 40205127016,

40205127017, 40205127018

| | | Blank | Reporting | | |
|---------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Arsenic, Dissolved | ug/L | <0.28 | 1.0 | 03/27/20 15:55 | |
| Barium, Dissolved | ug/L | < 0.70 | 2.3 | 03/27/20 15:55 | |
| Cadmium, Dissolved | ug/L | <0.15 | 1.0 | 03/27/20 15:55 | |
| Chromium, Dissolved | ug/L | <1.0 | 3.4 | 03/27/20 15:55 | |
| Lead, Dissolved | ug/L | < 0.24 | 1.0 | 03/27/20 15:55 | |
| Selenium, Dissolved | ug/L | < 0.32 | 1.1 | 03/27/20 15:55 | |
| Silver, Dissolved | ug/L | <0.13 | 0.50 | 03/27/20 15:55 | |

| LABORATORY CONTROL SAMPLI | | Spike | LCS | LCS | % Rec | |
|---------------------------|-------|-------|--------|-------|--------|------------|
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic, Dissolved | ug/L | 500 | 516 | 103 | 80-120 | |
| Barium, Dissolved | ug/L | 500 | 525 | 105 | 80-120 | |
| Cadmium, Dissolved | ug/L | 500 | 521 | 104 | 80-120 | |
| Chromium, Dissolved | ug/L | 500 | 504 | 101 | 80-120 | |
| Lead, Dissolved | ug/L | 500 | 532 | 106 | 80-120 | |
| Selenium, Dissolved | ug/L | 500 | 536 | 107 | 80-120 | |
| Silver, Dissolved | ug/L | 250 | 253 | 101 | 80-120 | |

| MATRIX SPIKE & MATRIX | SPIKE DUPL | ICATE: 2032 | | | 2032221 | | | | | • | | |
|-----------------------|------------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| Parameter | Units | 40205127006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Arsenic, Dissolved | ug/L | 0.88J | 500 | 500 | 545 | 545 | 109 | 109 | 75-125 | 0 | 20 | |
| Barium, Dissolved | ug/L | 102 | 500 | 500 | 652 | 645 | 110 | 109 | 75-125 | 1 | 20 | |
| Cadmium, Dissolved | ug/L | <0.15 | 500 | 500 | 530 | 526 | 106 | 105 | 75-125 | 1 | 20 | |
| Chromium, Dissolved | ug/L | <1.0 | 500 | 500 | 524 | 518 | 105 | 103 | 75-125 | 1 | 20 | |
| Lead, Dissolved | ug/L | <0.24 | 500 | 500 | 562 | 545 | 112 | 109 | 75-125 | 3 | 20 | |
| Selenium, Dissolved | ug/L | 1.5 | 500 | 500 | 548 | 551 | 109 | 110 | 75-125 | 1 | 20 | |
| Silver, Dissolved | ug/L | <0.13 | 250 | 250 | 247 | 243 | 99 | 97 | 75-125 | 2 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

QC Batch: 350835 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40205127004, 40205127005, 40205127006, 40205127008, 40205127014, 40205127015, 40205127018,

40205127019

METHOD BLANK: 2032130 Matrix: Water

Associated Lab Samples: 40205127004, 40205127005, 40205127006, 40205127008, 40205127014, 40205127015, 40205127018,

40205127019

| | | Blank | Reporting | | |
|-----------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 03/25/20 08:41 | |
| 1,1,1-Trichloroethane | ug/L | < 0.24 | 1.0 | 03/25/20 08:41 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 03/25/20 08:41 | |
| 1,1,2-Trichloroethane | ug/L | < 0.55 | 5.0 | 03/25/20 08:41 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 03/25/20 08:41 | |
| 1,1-Dichloroethene | ug/L | < 0.24 | 1.0 | 03/25/20 08:41 | |
| 1,1-Dichloropropene | ug/L | < 0.54 | 1.8 | 03/25/20 08:41 | |
| 1,2,3-Trichlorobenzene | ug/L | <2.2 | 7.4 | 03/25/20 08:41 | |
| 1,2,3-Trichloropropane | ug/L | < 0.59 | 5.0 | 03/25/20 08:41 | |
| 1,2,4-Trichlorobenzene | ug/L | 1.6J | 5.0 | 03/25/20 08:41 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 03/25/20 08:41 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 03/25/20 08:41 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 03/25/20 08:41 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 03/25/20 08:41 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 03/25/20 08:41 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 03/25/20 08:41 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 03/25/20 08:41 | |
| 1,3-Dichlorobenzene | ug/L | < 0.63 | 2.1 | 03/25/20 08:41 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 03/25/20 08:41 | |
| 1,4-Dichlorobenzene | ug/L | < 0.94 | 3.1 | 03/25/20 08:41 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 03/25/20 08:41 | |
| 2-Chlorotoluene | ug/L | < 0.93 | 5.0 | 03/25/20 08:41 | |
| 4-Chlorotoluene | ug/L | < 0.76 | 2.5 | 03/25/20 08:41 | |
| Benzene | ug/L | <0.25 | 1.0 | 03/25/20 08:41 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 03/25/20 08:41 | |
| Bromochloromethane | ug/L | < 0.36 | 5.0 | 03/25/20 08:41 | |
| Bromodichloromethane | ug/L | < 0.36 | 1.2 | 03/25/20 08:41 | |
| Bromoform | ug/L | <4.0 | 13.2 | 03/25/20 08:41 | |
| Bromomethane | ug/L | < 0.97 | 5.0 | 03/25/20 08:41 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 03/25/20 08:41 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 03/25/20 08:41 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 03/25/20 08:41 | |
| Chloroform | ug/L | <1.3 | 5.0 | 03/25/20 08:41 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 03/25/20 08:41 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 03/25/20 08:41 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 03/25/20 08:41 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 03/25/20 08:41 | |
| Dibromomethane | ug/L | < 0.94 | 3.1 | 03/25/20 08:41 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 03/25/20 08:41 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

METHOD BLANK: 2032130 Matrix: Water

Associated Lab Samples: 40205127004, 40205127005, 40205127006, 40205127008, 40205127014, 40205127015, 40205127018,

40205127019

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 03/25/20 08:41 | |
| Ethylbenzene | ug/L | < 0.32 | 1.1 | 03/25/20 08:41 | |
| Hexachloro-1,3-butadiene | ug/L | <1.5 | 4.9 | 03/25/20 08:41 | |
| Isopropylbenzene (Cumene) | ug/L | <1.7 | 5.6 | 03/25/20 08:41 | |
| m&p-Xylene | ug/L | < 0.47 | 2.0 | 03/25/20 08:41 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 03/25/20 08:41 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 03/25/20 08:41 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 03/25/20 08:41 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 03/25/20 08:41 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 03/25/20 08:41 | |
| o-Xylene | ug/L | < 0.26 | 1.0 | 03/25/20 08:41 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 03/25/20 08:41 | |
| sec-Butylbenzene | ug/L | < 0.85 | 5.0 | 03/25/20 08:41 | |
| Styrene | ug/L | <3.0 | 10.0 | 03/25/20 08:41 | |
| tert-Butylbenzene | ug/L | < 0.30 | 1.0 | 03/25/20 08:41 | |
| Tetrachloroethene | ug/L | < 0.33 | 1.1 | 03/25/20 08:41 | |
| Toluene | ug/L | <0.27 | 0.90 | 03/25/20 08:41 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 03/25/20 08:41 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 03/25/20 08:41 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 03/25/20 08:41 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 03/25/20 08:41 | |
| Vinyl chloride | ug/L | < 0.17 | 1.0 | 03/25/20 08:41 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 03/25/20 08:41 | |
| 4-Bromofluorobenzene (S) | % | 89 | 70-130 | 03/25/20 08:41 | |
| Dibromofluoromethane (S) | % | 108 | 70-130 | 03/25/20 08:41 | |
| Toluene-d8 (S) | % | 104 | 70-130 | 03/25/20 08:41 | |

| LABORATORY CONTROL SAMPLE: | 2032131 | | | | | |
|-----------------------------|---------|-------|--------|-------|----------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | 50 | 49.4 | 99 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 45.1 | 90 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 49.4 | 99 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 49.0 | 98 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 48.8 | 98 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 28.3 | 57 | 70-130 L | .2 |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 38.6 | 77 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 48.4 | 97 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 44.6 | 89 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 42.8 | 86 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 42.3 | 85 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 44.1 | 88 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 47.9 | 96 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| LABORATORY CONTROL SAMPLE: | 2032131 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| enzene | ug/L | 50 | 52.6 | 105 | 70-130 | |
| romodichloromethane | ug/L | 50 | 45.7 | 91 | 70-130 | |
| romoform | ug/L | 50 | 54.3 | 109 | 68-129 | |
| omomethane | ug/L | 50 | 36.7 | 73 | 18-159 | |
| arbon tetrachloride | ug/L | 50 | 49.8 | 100 | 70-130 | |
| nlorobenzene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| loroethane | ug/L | 50 | 55.5 | 111 | 53-147 | |
| nloroform | ug/L | 50 | 49.9 | 100 | 74-136 | |
| hloromethane | ug/L | 50 | 22.9 | 46 | 29-115 | |
| is-1,2-Dichloroethene | ug/L | 50 | 47.4 | 95 | 70-130 | |
| s-1,3-Dichloropropene | ug/L | 50 | 41.6 | 83 | 70-130 | |
| bromochloromethane | ug/L | 50 | 49.4 | 99 | 70-130 | |
| ichlorodifluoromethane | ug/L | 50 | 29.3 | 59 | 10-130 | |
| hylbenzene | ug/L | 50 | 50.1 | 100 | 80-124 | |
| opropylbenzene (Cumene) | ug/L | 50 | 50.7 | 101 | 70-130 | |
| &p-Xylene | ug/L | 100 | 108 | 108 | 70-130 | |
| ethyl-tert-butyl ether | ug/L | 50 | 44.3 | 89 | 54-137 | |
| ethylene Chloride | ug/L | 50 | 53.2 | 106 | 73-138 | |
| Xylene | ug/L | 50 | 49.6 | 99 | 70-130 | |
| yrene | ug/L | 50 | 53.3 | 107 | 70-130 | |
| trachloroethene | ug/L | 50 | 51.3 | 103 | 70-130 | |
| luene | ug/L | 50 | 49.9 | 100 | 80-126 | |
| ns-1,2-Dichloroethene | ug/L | 50 | 50.1 | 100 | 73-145 | |
| ans-1,3-Dichloropropene | ug/L | 50 | 43.9 | 88 | 70-130 | |
| ichloroethene | ug/L | 50 | 48.6 | 97 | 70-130 | |
| chlorofluoromethane | ug/L | 50 | 58.8 | 118 | 76-147 | |
| nyl chloride | ug/L | 50 | 37.2 | 74 | 51-120 | |
| rlene (Total) | ug/L | 150 | 157 | 105 | 70-130 | |
| Bromofluorobenzene (S) | % | | | 104 | 70-130 | |
| bromofluoromethane (S) | % | | | 92 | 70-130 | |
| oluene-d8 (S) | % | | | 103 | 70-130 | |

| MATRIX SPIKE & MATRIX SF | PIKE DUPL | ICATE: 2032 | 132 MS | MSD | 2032133 | | | | | | | |
|---------------------------------|-----------|-------------|-----------|-------|---------|--------|---------------|-------|--------|-----|-----|------|
| Davamatas | l laita | 40205127006 | Spike | Spike | MS | MSD | MS 0/ Page | MSD | % Rec | DDD | Max | 0 |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| 1,1,1-Trichloroethane | ug/L | < 0.24 | 50 | 50 | 53.9 | 54.6 | 108 | 109 | 70-130 | 1 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 56.5 | 56.0 | 113 | 112 | 70-130 | 1 | 20 | |
| 1,1,2-Trichloroethane | ug/L | < 0.55 | 50 | 50 | 56.7 | 56.1 | 113 | 112 | 70-137 | 1 | 20 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 58.6 | 57.0 | 117 | 114 | 73-153 | 3 | 20 | |
| 1,1-Dichloroethene | ug/L | < 0.24 | 50 | 50 | 58.7 | 56.7 | 117 | 113 | 73-138 | 4 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | < 0.95 | 50 | 50 | 39.9 | 43.1 | 80 | 86 | 70-130 | 8 | 20 | |
| 1,2-Dibromo-3- chloropropane | ug/L | <1.8 | 50 | 50 | 49.8 | 48.6 | 100 | 97 | 58-129 | 2 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 54.7 | 55.4 | 109 | 111 | 70-130 | 1 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| MATRIX SPIKE & MATRIX SP | IKE DUPI | LICATE: 2032 | _ | | 2032133 | | | | | | | |
|--------------------------|----------|--------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|-----|
| | | | MS | MSD | | | | | | | | |
| | | 40205127006 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qua |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 50.9 | 50.9 | 102 | 102 | 70-130 | 0 | 20 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 47.9 | 50.0 | 96 | 100 | 75-140 | 4 | 20 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 48.8 | 48.0 | 98 | 96 | 71-138 | 2 | 20 | |
| 1,3-Dichlorobenzene | ug/L | < 0.63 | 50 | 50 | 50.1 | 50.0 | 100 | 100 | 70-130 | 0 | 20 | |
| 1,4-Dichlorobenzene | ug/L | < 0.94 | 50 | 50 | 52.2 | 52.7 | 104 | 105 | 70-130 | 1 | 20 | |
| Benzene | ug/L | < 0.25 | 50 | 50 | 61.8 | 56.7 | 124 | 113 | 70-130 | 9 | 20 | |
| Bromodichloromethane | ug/L | < 0.36 | 50 | 50 | 50.9 | 50.4 | 102 | 101 | 70-130 | 1 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 61.0 | 60.1 | 122 | 120 | 68-129 | 1 | 20 | |
| Bromomethane | ug/L | < 0.97 | 50 | 50 | 43.8 | 42.8 | 88 | 86 | 15-170 | 2 | 20 | |
| Carbon tetrachloride | ug/L | <1.1 | 50 | 50 | 55.7 | 57.0 | 111 | 114 | 70-130 | 2 | 20 | |
| Chlorobenzene | ug/L | < 0.71 | 50 | 50 | 55.7 | 55.4 | 111 | 111 | 70-130 | 1 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 73.1 | 70.6 | 146 | 141 | 51-148 | 3 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 56.2 | 56.8 | 112 | 114 | 74-136 | 1 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 32.9 | 29.6 | 66 | 59 | 23-115 | 11 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 56.0 | 55.9 | 112 | 112 | 70-131 | 0 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 47.3 | 47.6 | 95 | 95 | 70-130 | 1 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 55.2 | 54.8 | 110 | 110 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | ug/L | < 0.50 | 50 | 50 | 37.0 | 35.2 | 74 | 70 | 10-132 | 5 | 20 | |
| Ethylbenzene | ug/L | < 0.32 | 50 | 50 | 57.5 | 56.9 | 115 | 114 | 80-125 | 1 | 20 | |
| sopropylbenzene | ug/L | <1.7 | 50 | 50 | 57.7 | 58.4 | 115 | 117 | 70-130 | 1 | 20 | |
| (Cumene) | ŭ | | | | | | | | | | | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 121 | 120 | 121 | 120 | 70-130 | 1 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 54.2 | 53.1 | 108 | 106 | 51-145 | 2 | | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 63.2 | 62.2 | 126 | 124 | 73-140 | 2 | | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 57.7 | 56.4 | 115 | 113 | 70-130 | 2 | | |
| Styrene | ug/L | <3.0 | 50 | 50 | 57.8 | 57.7 | 116 | 115 | 70-130 | 0 | - | |
| Tetrachloroethene | ug/L | < 0.33 | 50 | 50 | 55.6 | 56.0 | 111 | 112 | 70-130 | 1 | 20 | |
| Toluene | ug/L | <0.27 | 50 | 50 | 55.8 | 56.1 | 112 | 112 | 80-131 | 0 | | |
| rans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 59.2 | 58.0 | 118 | 116 | 73-148 | 2 | 20 | |
| rans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 49.3 | 50.2 | 99 | 100 | 70-130 | 2 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 53.1 | 52.4 | 106 | 105 | 70-130 | 1 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 73.7 | 71.2 | 147 | 142 | 74-147 | 3 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 50.0 | 45.8 | 100 | 92 | 41-129 | 9 | 20 | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 178 | 176 | 119 | 117 | 70-130 | 1 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 105 | 105 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 95 | 99 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 101 | 70-130 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

QC Batch: 350762 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40205127003, 40205127004, 40205127005, 40205127006, 40205127007, 40205127008, 40205127009

METHOD BLANK: 2031769 Matrix: Water

Associated Lab Samples: 40205127003, 40205127004, 40205127005, 40205127006, 40205127007, 40205127008, 40205127009

| | | Blank | Reporting | | |
|------------------------|-------|----------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1-Methylnaphthalene | ug/L | <0.0059 | 0.030 | 03/24/20 15:04 | |
| 2-Methylnaphthalene | ug/L | < 0.0049 | 0.024 | 03/24/20 15:04 | |
| Acenaphthene | ug/L | < 0.0061 | 0.030 | 03/24/20 15:04 | |
| Acenaphthylene | ug/L | < 0.0050 | 0.025 | 03/24/20 15:04 | |
| Anthracene | ug/L | < 0.010 | 0.052 | 03/24/20 15:04 | |
| Benzo(a)anthracene | ug/L | < 0.0076 | 0.038 | 03/24/20 15:04 | |
| Benzo(a)pyrene | ug/L | < 0.011 | 0.053 | 03/24/20 15:04 | |
| Benzo(b)fluoranthene | ug/L | < 0.0057 | 0.029 | 03/24/20 15:04 | |
| Benzo(g,h,i)perylene | ug/L | <0.0068 | 0.034 | 03/24/20 15:04 | |
| Benzo(k)fluoranthene | ug/L | < 0.0076 | 0.038 | 03/24/20 15:04 | |
| Chrysene | ug/L | < 0.013 | 0.065 | 03/24/20 15:04 | |
| Dibenz(a,h)anthracene | ug/L | < 0.010 | 0.050 | 03/24/20 15:04 | |
| Fluoranthene | ug/L | < 0.011 | 0.053 | 03/24/20 15:04 | |
| Fluorene | ug/L | <0.0080 | 0.040 | 03/24/20 15:04 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.018 | 0.088 | 03/24/20 15:04 | |
| Naphthalene | ug/L | <0.018 | 0.092 | 03/24/20 15:04 | |
| Phenanthrene | ug/L | < 0.014 | 0.069 | 03/24/20 15:04 | |
| Pyrene | ug/L | < 0.0076 | 0.038 | 03/24/20 15:04 | |
| 2-Fluorobiphenyl (S) | % | 70 | 39-120 | 03/24/20 15:04 | |
| Terphenyl-d14 (S) | % | 104 | 10-159 | 03/24/20 15:04 | |

| LABORATORY CONTROL SAMPLE: | 2031770 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1-Methylnaphthalene | ug/L | | 1.3 | 67 | 37-120 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.4 | 70 | 38-120 | |
| Acenaphthene | ug/L | 2 | 1.6 | 82 | 49-120 | |
| Acenaphthylene | ug/L | 2 | 1.5 | 74 | 43-85 | |
| Anthracene | ug/L | 2 | 1.7 | 87 | 57-110 | |
| Benzo(a)anthracene | ug/L | 2 | 1.8 | 89 | 47-118 | |
| Benzo(a)pyrene | ug/L | 2 | 1.9 | 94 | 70-120 | |
| Benzo(b)fluoranthene | ug/L | 2 | 1.8 | 91 | 54-97 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.2 | 58 | 26-74 | |
| Benzo(k)fluoranthene | ug/L | 2 | 2.1 | 104 | 73-126 | |
| Chrysene | ug/L | 2 | 2.0 | 98 | 75-151 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 1.0 | 52 | 13-72 | |
| Fluoranthene | ug/L | 2 | 1.8 | 91 | 63-120 | |
| Fluorene | ug/L | 2 | 1.7 | 85 | 53-120 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.7 | 87 | 51-101 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| LABORATORY CONTROL SAMPLE: | 2031770 | | | | | |
|----------------------------|---------|----------------|---------------|--------------|-----------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Naphthalene | ug/L | | 1.3 | 66 | 41-120 | |
| Phenanthrene | ug/L | 2 | 1.8 | 88 | 47-100 | |
| Pyrene | ug/L | 2 | 1.7 | 87 | 70-128 | |
| 2-Fluorobiphenyl (S) | % | | | 75 | 39-120 | |
| Terphenyl-d14 (S) | % | | | 101 | 10-159 | |

| MATRIX SPIKE & MATRIX SPIKE | DUPL | ICATE: 2031 | 771 | | 2031772 | | | | | | | |
|-----------------------------|-------|-------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | | 40205127006 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| 1-Methylnaphthalene | ug/L | 0.090 | 2 | 2 | 1.3 | 1.3 | 64 | 62 | 16-120 | 4 | 28 | |
| 2-Methylnaphthalene | ug/L | 0.0092J | 2 | 2 | 1.3 | 1.3 | 67 | 65 | 29-120 | 4 | 31 | |
| Acenaphthene | ug/L | 0.074 | 2 | 2 | 1.6 | 1.5 | 75 | 73 | 33-120 | 4 | 30 | |
| Acenaphthylene | ug/L | 0.011J | 2 | 2 | 1.3 | 1.3 | 68 | 65 | 21-85 | 5 | 26 | |
| Anthracene | ug/L | < 0.010 | 2 | 2 | 1.4 | 1.4 | 73 | 70 | 16-114 | 4 | 36 | |
| Benzo(a)anthracene | ug/L | < 0.0074 | 2 | 2 | 1.4 | 1.3 | 69 | 67 | 10-118 | 2 | 35 | |
| Benzo(a)pyrene | ug/L | < 0.010 | 2 | 2 | 1.2 | 1.1 | 59 | 58 | 10-120 | 3 | 37 | |
| Benzo(b)fluoranthene | ug/L | < 0.0056 | 2 | 2 | 1.2 | 1.2 | 62 | 60 | 10-97 | 3 | 36 | |
| Benzo(g,h,i)perylene | ug/L | < 0.0066 | 2 | 2 | 0.59 | 0.53 | 30 | 27 | 10-74 | 12 | 45 | |
| Benzo(k)fluoranthene | ug/L | < 0.0074 | 2 | 2 | 1.3 | 1.2 | 65 | 63 | 10-126 | 3 | 41 | |
| | ug/L | < 0.013 | 2 | 2 | 1.4 | 1.4 | 73 | 71 | 10-161 | 2 | 30 | |
| Dibenz(a,h)anthracene | ug/L | <0.0098 | 2 | 2 | 0.60 | 0.52 | 31 | 27 | 10-72 | 13 | 50 | |
| Fluoranthene | ug/L | < 0.010 | 2 | 2 | 1.5 | 1.4 | 76 | 73 | 35-120 | 3 | 33 | |
| Fluorene | ug/L | 0.043 | 2 | 2 | 1.5 | 1.5 | 76 | 73 | 17-120 | 4 | 33 | |
| Indeno(1,2,3-cd)pyrene | ug/L | < 0.017 | 2 | 2 | 0.86 | 0.80 | 44 | 41 | 10-101 | 7 | 41 | |
| | ug/L | 0.14 | 2 | 2 | 1.5 | 1.4 | 70 | 66 | 24-120 | 5 | 30 | |
| Phenanthrene | ug/L | < 0.014 | 2 | 2 | 1.5 | 1.4 | 74 | 71 | 15-100 | 4 | 30 | |
| Pyrene | ug/L | < 0.0075 | 2 | 2 | 1.5 | 1.4 | 74 | 72 | 14-137 | 3 | 31 | |
| 2-Fluorobiphenyl (S) | % | | | | | | 68 | 65 | 39-120 | | | |
| Terphenyl-d14 (S) | % | | | | | | 82 | 79 | 10-159 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

QC Batch: 351002 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40205127010, 40205127011, 40205127012, 40205127013, 40205127014, 40205127015, 40205127016,

40205127017, 40205127018

METHOD BLANK: 2032879 Matrix: Water

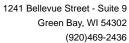
Associated Lab Samples: 40205127010, 40205127011, 40205127012, 40205127013, 40205127014, 40205127015, 40205127016,

40205127017, 40205127018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|-----------------|--------------------|----------------|------------|
| 1-Methylnaphthalene | ug/L | <0.0059 | 0.030 | 03/26/20 11:07 | |
| 2-Methylnaphthalene | ug/L | < 0.0049 | 0.024 | 03/26/20 11:07 | |
| Acenaphthene | ug/L | < 0.0061 | 0.030 | 03/26/20 11:07 | |
| Acenaphthylene | ug/L | < 0.0050 | 0.025 | 03/26/20 11:07 | |
| Anthracene | ug/L | < 0.010 | 0.052 | 03/26/20 11:07 | |
| Benzo(a)anthracene | ug/L | < 0.0076 | 0.038 | 03/26/20 11:07 | |
| Benzo(a)pyrene | ug/L | < 0.011 | 0.053 | 03/26/20 11:07 | |
| Benzo(b)fluoranthene | ug/L | < 0.0057 | 0.029 | 03/26/20 11:07 | |
| Benzo(g,h,i)perylene | ug/L | <0.0068 | 0.034 | 03/26/20 11:07 | |
| Benzo(k)fluoranthene | ug/L | < 0.0076 | 0.038 | 03/26/20 11:07 | |
| Chrysene | ug/L | < 0.013 | 0.065 | 03/26/20 11:07 | |
| Dibenz(a,h)anthracene | ug/L | < 0.010 | 0.050 | 03/26/20 11:07 | |
| Fluoranthene | ug/L | < 0.011 | 0.053 | 03/26/20 11:07 | |
| Fluorene | ug/L | <0.0080 | 0.040 | 03/26/20 11:07 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.018 | 0.088 | 03/26/20 11:07 | |
| Naphthalene | ug/L | <0.018 | 0.092 | 03/26/20 11:07 | |
| Phenanthrene | ug/L | < 0.014 | 0.069 | 03/26/20 11:07 | |
| Pyrene | ug/L | < 0.0076 | 0.038 | 03/26/20 11:07 | |
| 2-Fluorobiphenyl (S) | % | 67 | 39-120 | 03/26/20 11:07 | |
| Terphenyl-d14 (S) | % | 106 | 10-159 | 03/26/20 11:07 | |

| LABORATORY CONTROL SAMPLE & LCSD | 2032880 | | 20 | 32881 | | | | | | |
|----------------------------------|---------|-------|--------|--------|-------|-------|--------|-----|------|------------|
| | | Spike | LCS | LCSD | LCS | LCSD | % Rec | | Max | |
| Parameter | Units | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qualifiers |
| 1-Methylnaphthalene | ug/L | 2 | 1.4 | 1.4 | 72 | 70 | 37-120 | 2 | 25 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.5 | 1.5 | 75 | 74 | 38-120 | 1 | 25 | |
| Acenaphthene | ug/L | 2 | 1.8 | 1.6 | 88 | 82 | 49-120 | 7 | 24 | |
| Acenaphthylene | ug/L | 2 | 1.7 | 1.5 | 83 | 77 | 43-85 | 7 | 26 | |
| Anthracene | ug/L | 2 | 2.0 | 2.0 | 101 | 98 | 57-110 | 3 | 28 | |
| Benzo(a)anthracene | ug/L | 2 | 2.2 | 2.1 | 110 | 107 | 47-118 | 3 | 27 | |
| Benzo(a)pyrene | ug/L | 2 | 2.3 | 2.2 | 113 | 110 | 70-120 | 3 | 20 | |
| Benzo(b)fluoranthene | ug/L | 2 | 2.1 | 2.1 | 107 | 106 | 54-97 | 0 | 21 L | 1 |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.4 | 1.4 | 69 | 70 | 26-74 | 2 | 42 | |
| Benzo(k)fluoranthene | ug/L | 2 | 2.4 | 2.3 | 118 | 113 | 73-126 | 5 | 22 | |
| Chrysene | ug/L | 2 | 2.2 | 2.2 | 110 | 108 | 75-151 | 1 | 20 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 1.2 | 1.3 | 61 | 63 | 13-72 | 4 | 50 | |
| Fluoranthene | ug/L | 2 | 2.2 | 2.1 | 109 | 106 | 63-120 | 3 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| LABORATORY CONTROL SAMPLE | & LCSD: 2032880 | | 20 | 32881 | | | | | | |
|---------------------------|-----------------|-------|--------|--------|-------|-------|--------|-----|-----|------------|
| | | Spike | LCS | LCSD | LCS | LCSD | % Rec | | Max | |
| Parameter | Units | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qualifiers |
| Fluorene | ug/L | 2 | 1.9 | 1.7 | 94 | 87 | 53-120 | 8 | 26 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 2.2 | 2.1 | 108 | 105 | 51-101 | 3 | 27 | L1 |
| Naphthalene | ug/L | 2 | 1.4 | 1.4 | 70 | 71 | 41-120 | 1 | 24 | |
| Phenanthrene | ug/L | 2 | 1.9 | 1.8 | 95 | 91 | 47-100 | 5 | 22 | |
| Pyrene | ug/L | 2 | 2.1 | 2.0 | 103 | 101 | 70-128 | 2 | 20 | |
| 2-Fluorobiphenyl (S) | % | | | | 75 | 70 | 39-120 | | | |
| Terphenyl-d14 (S) | % | | | | 119 | 117 | 10-159 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 04/01/2020 08:41 AM

| 1q | This sample could not be re-extracted within laboratory hold time. |
|----|--|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| L1 | Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low. |
| S0 | Surrogate recovery outside laboratory control limits. |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution. |



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615404 CN MANITOWOC

Pace Project No.: 40205127

Date: 04/01/2020 08:41 AM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytica Batch |
|-------------|---------------|-----------------|----------|-------------------|--------------------|
| 10205127001 | 1_MW-19 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 10205127002 | _ 1_MW-43 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127003 | _ 1_MW-39 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127004 | 1_MW-35 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127005 | _ 1_MW-35D | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127006 | _ 1_MW-10 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127007 | _ 1_MW-14 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127008 | _ 1_MW-17 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127010 | 3_MW-11 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127011 | 3_MW-45 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127013 | 3_MW-64 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127014 | 3_MW-27 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127015 | 3_MW-27D | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127016 | 3_MW-77 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127017 | 3_MW-72 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127018 | 3_MW-58 | EPA 3010 | 350865 | EPA 6020 | 350900 |
| 0205127003 | 1_MW-39 | EPA 7470 | 351034 | EPA 7470 | 351061 |
| 0205127004 | 1_MW-35 | EPA 7470 | 351034 | EPA 7470 | 351061 |
| 0205127005 | 1_MW-35D | EPA 7470 | 351034 | EPA 7470 | 351061 |
| 0205127006 | 1_MW-10 | EPA 7470 | 351034 | EPA 7470 | 351061 |
| 0205127007 | 1_MW-14 | EPA 7470 | 351034 | EPA 7470 | 351061 |
| 0205127003 | 1_MW-39 | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127004 | 1_MW-35 | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127005 | 1_MW-35D | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127006 | 1_MW-10 | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127007 | 1_MW-14 | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127008 | 1_MW-17 | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127009 | 3_MW-14 | EPA 3510 | 350762 | EPA 8270 by HVI | 350812 |
| 0205127010 | 3_MW-11 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127011 | 3_MW-45 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127012 | 3_MW-20 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127013 | 3_MW-64 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127014 | 3_MW-27 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127015 | 3_MW-27D | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127016 | 3_MW-77 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127017 | 3_MW-72 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127018 | 3_MW-58 | EPA 3510 | 351002 | EPA 8270 by HVI | 351033 |
| 0205127004 | 1_MW-35 | EPA 8260 | 350835 | | |
| 0205127005 | 1_MW-35D | EPA 8260 | 350835 | | |
| 0205127006 | 1_MW-10 | EPA 8260 | 350835 | | |
| 0205127008 | 1_MW-17 | EPA 8260 | 350835 | | |
| 0205127014 | 3_MW-27 | EPA 8260 | 350835 | | |
| 0205127015 | 3_MW-27D | EPA 8260 | 350835 | | |
| 0205127018 | 3_MW-58 | EPA 8260 | 350835 | | |
| 0205127019 | TB-1 | EPA 8260 | 350835 | | |

| | (Please Print Clearly) | | 1 | | <u></u> | | | | | | UPPE | ER MIDWES | T REGION | | Page 1 | of Z g |
|--|--|-------------------------------------|---|-----------------|----------------|-------|--|---------------------|----------------|-----------|------------|-------------|-----------------------------|----------------------|----------------|---|
| Company Name | : AECOM | | | ٦ | | | | | | | MN: | 612-607-170 | 00 W I: 920-469-2436 | | | |
| Branch/Location | 1: Oshkosh, WI | | 1, | /_/ | Pace | | | | | | | | | 402 | 0512 |) |
| Project Contact: | | | 1 / | | | www.p | oecelabs. | .com | | | | | Quote #: | I CANADANA SELECTIVA | s first | |
| Phone: | 414-944-6186 | | 1 | | CH/ | AIN | OF | = C | US | TO | DY | 7 | Mail To Contact: | | | |
| Project Number: | | | A=N | | =HCL C | | *Preserv | ation Cod 3 E≖DI | lee. | F≃Metha | | | Mail To Company: | | | |
| Project Name: | CN Maritonoc | | H=S | odium Bis | ulfate Solu | tion | I≃Sodlu | m Thiosulf | ate : | J=Other | | | Mail To Address: | | | |
| Project State: | WP. | | | ERED? S/NO) | Y/N | N | <i>N</i> | У | У | ГУ | T | | | | | |
| Sampled By (Pri | nt): Jacob Deen | | | RVATION DE)* | Pick Letter | A | В | Ò | D | b | | | Invoice To Contact: | | | |
| Sampled By (Sig | | | 1 | 7.7 | | | | | | | | | Invoice To Company: | | 1 | |
| PO #: | 10615404 | Regulatory Program: | | | Tested | | | | ر د د | رو | | | Invoice To Address: | | | |
| Data Package | reconstruction of the control of the | Mat = Air | rix Codes | 3 | Requi | | | ed Metuls | ¥ | Lea | 1 | | | | | |
| ☐ EPA L | evel III (billable) B = | = Biota = Charcoal | DW = Drinki GW = Groun SW = Surface | nd Water | 1868 | | | ne de | 21 22 | lred. | | | Invoice To Phone: | | A | |
| PACE LAB# | evel to Divol needed on s= | = Oil = Soil = Sludge COLL | WW = Wast WP = Wipe ECTION | | Analyses | PAN | 292 | Bissolved RCRA M | presolved Area | Dissolved | | | CLIENT | LAB CO | MMENTS | Profile # |
| | 1_MW-19 | 3-18-20 |) 000 | 6W | | | | | 1 | | | | | (Lab Us | ie Omy) | |
| 00/ | |) 10 W | 1020 | 1000 | | | | | | | | | All metals surpled | | | |
| 003 | 1_MW-43 | | 1145 | | | 2 | | | | ' | | | through 0.45 | | | |
| A CONTRACTOR OF THE PROPERTY O | 1_MW-39 | | 1 | | | 2 | 3 | | | | | | Micron filter | | | |
| 004 | 1-MW-35 1-MW-35D | | 1310 | | | 2 | 3 | | | | | | | | | |
| 005 | | | 1440 | | | 6 | 9 | 3 | | | | | * M5/MSD colleged | | | |
| 100 | 1_MW-10 | +V- | 1615 | | | 2 | | 7 | | | | | 112/130 Collected | | | |
| <u>007</u> | 1_MW-14 | 3-19-20 | 100000000000000000000000000000000000000 | | - | | 3 | | 1 | | | | | | | |
| 008 | 1- MW-17 | 121700 | | | | 2 | | | L | | | | | | | |
| 009 | 3_MW.14 | | 1305 | | ļ | 2 | | | 1 | | | | | | | |
| | 3_MW-11 | | H2000 F 1893 B 241 | | | | | | 1 | | | | | | | |
| $\frac{O(1)}{O(2)}$ | 3_MW.45 | | 1405 | | | 2 | | | 1 | | | | | | - | |
| 012 | 3- MW-20 3- MW-64 | +V- | 16:15 | $\vdash \Psi$ | | 2 | | | ı | | | | | | | |
| | round Time Requested - Prelims | Relino | auished By: | | | | Da | te/Time: | | l | Receive | i Bv: | Date/Time: | | PACE Pro | ject No. |
| (Rush TAT | subject to approval/surcharge) ate Needed: | | WALT | <u>Kew</u> | | 0 | 3-23 Da | -20 / te/Time: | 9:4 | • | Keçeifa | IBy: | 2 4 1/1/ Pate/Tiple: | - 94/ | 4020 | 5127 |
| Transmit Prelim I | Rush Results by (complete what you war | | uished By | \mathcal{A} | -9 | ےد_ | 17.000 1765 | 3/20 te/Time: | _/2_; | 35 | Received | USA | My 303/ | | celpt Temp = 🖊 | 2070 |
| Email #2: | | | Inisiion D | | | | ⊒a' | winde. | | | , received | у. | TOO Date I ITTE! | | Sample Re | |
| Telephone: | | Relino | quished By: | | | | Dal | te/Time; | | | Received | d By: | Date/Time: | - | (6K)/Adj | |
| Fax: Samp | les on HOLD are subject to | Relino | uished By: | | | | Dat | te/Time: | | | Received | i By: | Date/Time: | | Present / No | ten en sensen en e |
| | pricing and release of liability | | | | | | | | | | | | | | Intact / No | ot Intact |

| | (Please Print Clearly) | an rengrational co | 3 시작하다. | | \mathcal{I} | | | | | | UPPE | K MIDWE | ST REGION | Page 2 of 2 |
|-------------------------|---|--------------------------------|--|----------------|--|----------------|------------|------------|------------------|----------------|---------------|-----------|------------------------------|--|
| Company Nam | ne: AECOM | | | | 1 | 4 | | , . | | | MN: | 612-607-1 | 700 W I: 920-469-2436 | . |
| Branch/Location | on: OshKosh, WI | | 1 | /_/ | Pace | | | | | | | | | 40205127 |
| Project Contac | | oach | 1 / | | | www.p | oacelabs | LCOM | | | | | Quote #: | 40205127 Some as first column |
| Phone: | 414-944-6186 | | 1 ' | (| CH/ | AIN | O | FC | US | TO | DY | 7 | Mail To Contact: | |
| Project Numbe | | | I Γ | | =HCL C: | | *Preser | vation Co | des | | nol G= | | Mail To Company: | 1 |
| Project Name: | | | | odium Bisi | | | | um Thiosul | | J=Other | iioi C | iaon | Mail To Address: | |
| Project State: | WI | | | ERED? S/NO) | Y/N | Iv | N | Ιv | Ιv | Ιv | | ĪΠ | | |
| Sampled By (P | | | PRESE | RVATION | Pick | | 10 | D | 16 | b | | | Invoice To Contact: | 1 |
| Sampled By (Si | | | (00 | DE), | Letter | IA. | | 1 | | +ν- | | | Invoice To Company: | |
| PO #: | - I I Provide Cear | Regulatory | | | 3 | | | | ږ | | | | | |
| | | Program: | <u> </u> | 2000 | Requested | | | 13 m | 1 25 | 3 | | | Invoice To Address: | |
| Data Packag (billabl | ole) D7 On your sample A= | Air | rix Code: W = Water | | - 1 2 E | | | 8 3 | 14 | 13 | | | | |
| ☐ EPAI | Level III (billable) C = | : Biota : Charcoal : Oil | DW = Drink GW = Groun SW = Surfa | nd Water | 808 | ₩ | چ ⊦ | 3 3 | رد ورا | Dissolved Lead | | | Invoice To Phone: | 4 |
| EPA I | your sample s = | Soil Sludge | WW = Wast WP = Wipe ECTION | | Analyses | | Voc | Dissolve 1 | Dissolved Arsenc | Sig | | | CLIENT | LAB COMMENTS Profile # |
| PACE LAB# | CLIENT FIELD ID | DATE | TIME | | | | | | 1 | | | | COMMENTS | (Lab Use Only) |
| 014 | 3_MW-27 | 3-20-20 | | 6W | | 2 | 3 | | A. | | | | All metals | |
| 015 | 3_MU-27D | 11 | سرد ان | | | 2 | 3 | | 1 30 | | | | sampled through | |
| 016 | 3_MW-77 - | | 11:35 | | ļ., | レ | | | χΦ | | | | 0.45 micron file | |
| 017 | 3_MW-7Z | | 12:50 | | | P | <u> </u> | | XD. | | | | | |
| 018 | 3. MW-58 | V | 14:45 | | | 1,0 | 1 14 | 1 | XD | | | | | |
| 019 | TB-I | - | _ | V | | | 2 | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | A 0.66 000-01 | et. 3/24/ev con |
| | | | | | | | | | | | | | 10 House les (3) | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | | | | | | | | | | | | | | |
| Rush Turn | around Time Requested - Prelims | Reling | unished By: | <u> </u> | <u> </u> | | ا 3- ع3 | ate/Time: | | | Received | LBy: | Date/Time: | PACE Project No. |
| | AT subject to approval/surcharge) Date Needed: | | guished By: | Ten! | / | 7 — | | | 724 | 1 | \mathcal{M} | The | 2 face 3/23/20 | 94/ -110205127 |
| | n Rush Results by (complete what you wan | | Juisned by. | 4 | Left. | e | 3/27 | ate/Time: | 12: | 35 | | Loas | HULLA 3/2 | 3/20/23 Receipt Temp = R 0 7 °C |
| Email #1: | | | uished By: | | 7 | | Da | ate/Time: | | | Received | By: | J PM Date/Time: | |
| Email #2: Felephone: | | | | | | | | | | | | . | | Sample Receipt pH OK Adjusted |
| ax: | | Kelind | uished By: | | | | υa | ite/Time: | | | Received | οy. | Date/Time: | Cooler Custody Seql |
| Sam | nples on HOLD are subject to at pricing and release of liability | Relinq | uished By: | | | | Da | ite/Time: | | | Received | Ву: | Date/Time: | Present Not Present Intact / Not Intact |

Sample Preservation Receipt Form Project # 10205127

Client Name: All containers needing preservation have been checked and noted below: des □No □N/A 101/5279 / Lab Std #ID of preservation (if pH adjusted): Lab Lot# of pH paper: laOH+Zn Act pH ≥9 'OA Vials (>6mm) after adjusted Glass **Plastic** Vials Jars General 12SO4 pH ≤2 aOH pH ≥12 Volume 4NO3 pH ≤2 (mL) WGFU WPFU AG1H AG4U AG5U AG2S BG3U VG9A VG9U **VG9H** VG9M VG9D AG10 **BP3N BP3S** DG9T JGFU ZPLC BG1U **BP1U BP3U BP3B JG9**0 SP5T Pace Z U Lab # 001 2.5 / 5 / 10 002 2.5 / 5 / 10 003 2.5 / 5 / 10 004 2.5 / 5 / 10 3 005 2.5 / 5 / 10 006 2.5 / 5 / 10 3/20/20 81 007 2.5 / 5 / 10 008 2.5 / 5 / 10 009 7 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5/5/10 012 2.5 / 5 / 10 013 2.5 / 5 / 10 3 014 2.5/5/10 3 015 2.5 / 5 / 10 016 a 2.5/5/10 017 2.5 / 5 / 10 3 018 2.5/5/10 019 2.5 / 5 / 10 ⁄ഉഗ 2.5 / 5 / 10 Exceptions to preservation check VO Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm): □Yes ano □N/A *If yes look in headspace column BP1U 1 liter plastic unpres VG9A 40 mL clear ascorbic **JGFU** AG1U 1 liter amber glass 4 oz amber jar unpres BG1U 1 liter clear glass BP3U 250 mL plastic unpres DG9T 40 mL amber Na Thio JG9U 9 oz amber jar unpres BP3B 250 mL plastic NaOH VG9U 40 mL clear vial unpres WGFU 4 oz clear jar unpres AG1H 1 liter amber glass HCL AG4S 125 mL amber glass H2SO4 **BP3N** 250 mL plastic HNO3 VG9H 40 mL clear vial HCL **WPFU** 4 oz plastic jar unpres BP3S 250 mL plastic H2SO4 VG9M 40 mL clear vial MeOH AG4U 120 mL amber glass unpres SP5T 120 mL plastic Na Thiosulfate VG9D 40 mL clear vial DI **ZPLC** ziploc bag AG5U 100 mL amber glass unpres AG2S 500 mL amber glass H2SO4 GN

BG3U 250 mL clear glass unpres

Pace Analytical

1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

| Client Name:Courier: ☐ CS Logistics ☐ Fed Ex ☐ Spe ☐ Client ☐ Pace Other: | edee [UPS [V | vaitco | 40205127 |
|---|--|--|--|
| Tracking #: Custody Seal on Cooler/Box Present: | and the second of the second o | | |
| Custody Seal on Samples Present: 🗀 yes | | : Г yes Г no | |
| Packing Material: 🔲 Bubble Wrap 👺 B | 그렇게 되는 아이를 하셨습니다. | The state of the s | |
| Thermometer Used SR - NA | Type of Ice: Ve | Blue Dry None X Samples | on ice, cooling process has begun |
| Cooler Temperature Uncorr: KOI /Corr | | Tissue is Frozen: ☐ yes ☐ no | Person examining contents: |
| Temp Blank Present: yes yes no Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C. | ele dia | 1133dc 13 1102cm. 12 yes1 110 | Date: 3 23 20 Initials: |
| Chain of Custody Present: | Yes □No □N/A | 1. | |
| Chain of Custody Filled Out: | Ves N/A | 20110,017 +018 and | alipso not checked |
| Chain of Custody Relinquished: | ZYes □No □N/A | | 3-2 |
| Sampler Name & Signature on COC: | AYes □No □N/A | | |
| Samples Arrived within Hold Time: | ⊈Yes □No | 5. | |
| - VOA Samples frozen upon receipt | □Yes □No | Date/Time: | |
| Short Hold Time Analysis (<72hr): | ∰Yes □No | 6. | |
| Rush Turn Around Time Requested: | ☐Yes ☐No | 7. | |
| Sufficient Volume: | | 8. | |
| | ISD: Ø¥¥es □No □N// | | |
| Correct Containers Used: | √ Yes □No | 9. | |
| -Pace Containers Used: | ¶Sper □No □N/A | | |
| -Pace IR Containers Used: | □Yes □No DAN/ | | |
| Containers Intact: | Mayes □No | 10. | |
| Filtered volume received for Dissolved tests | Mayes □No □N// | 11. 1966 1 | |
| Sample Labels match COC: | Ç Yes □No □N// | 12. | |
| -Includes date/time/ID/Analysis Matrix:_ | \mathcal{N} | | |
| Trip Blank Present: | Mayes □No □N// | 13. | |
| Trip Blank Custody Seals Present | Maryes □No □N// | | |
| Pace Trip Blank Lot # (if purchased): 43/ | | | and Amerika (1994). The state of |
| Client Notification/ Resolution: Person Contacted: | Date | If checked, see att /Time: | ached form for additional comments |
| Comments/ Resolution: | | | |
| <u> </u> | | | |
| | | | |
| | | | |
| | | | |