

March 22, 2023

Mr. John Hunt
Wisconsin Dept. of Natural Resources
223 E Steinfest Road
Antigo, WI 54409

**Subject: Well Abandonment Work Plan
Former Amoco Terminal Wells
BRRTS #02-16-000331, #02-16-117873, #02-16-297979
C Reiss Dock Property Redevelopment
Superior, Wisconsin**

Dear Mr. Hunt:

C Reiss Coal (C Reiss) has proposed a comprehensive redevelopment of their vacant parcel (PID #048040101400) located north of the Winter Street industrial corridor access road in Superior, Wisconsin. Proposed redevelopment activities include site regrading, rail spur and barge dock materials handling, new infrastructure installation, road and operations building improvements, and berm construction using excavated soil from the redevelopment. Design plans for the proposed C Reiss parcel redevelopment and the Former Amoco well network are included as the attached **Figures 1A and 1B**. Redevelopment is scheduled to begin in late Spring 2023, and a work plan and request to manage material for the site during redevelopment, including contaminated soil, has been submitted as Form 4400-315 by Stantec Consulting Services Inc. (Stantec) and was approved by the Wisconsin Department of Natural Resources (WDNR) on February 17, 2023. This Well Abandonment Work Plan serves as an attachment to Form 4400-315 and includes a request to abandon existing monitoring and recovery wells and the Phase II LNAPL recovery system piping installed on the C Reiss parcel by Antea®Group on behalf of BP Products North America Inc. (BP). The abandonment of the monitoring and recovery wells and Phase II system piping is required to be completed before C Reiss parcel soil handling and redevelopment takes place.

In order to accommodate the proposed redevelopment plans for the C Reiss parcel, Stantec has requested that 24 existing monitoring and recovery wells (**Table 1**) and the Phase II system LNAPL recovery system piping be abandoned. These wells have been used to delineate the extent of the releases associated with the Former Amoco Terminal (BRRTS #02-16-000331), Barge Dock Manifold & AST (BRRTS #02-16-117873), and Barge Dock – OW Separator & Loading Rack (BRRTS #02-16-297979) and are located north of the Winter Street industrial corridor access road in public space and on the C Reiss parcel (**Figures 2 and 3**). All wells are proposed to be permanently abandoned and filled and sealed by Bergerson Caswell Inc (LIC #0398) using materials and methods as prescribed in NR 141.25, Wis. Adm. Code. The history and conditions of these wells are detailed in the contents of this memorandum. Due to the extensive investigation, delineation and stability of the extent of LNAPL and dissolved-phase benzene, these wells are proposed to be abandoned without replacement. **Tables 2 and 3** present Barge Dock well historical groundwater gauging data and groundwater sampling analytical results, respectively.

WELLS PROPOSED FOR ABANDONMENT: SUMMARY OF CONDITIONS AND DELINEATION

Twenty-four monitoring and recovery wells are proposed for abandonment to accommodate development activities on the C Reiss parcel (**Table 1**). A figure from the Materials Management Plan submitted by Stantec detailing the locations of wetland, railroad and slope, and road is shown in **Figure 1A and 1B**. Recent submittals by Antea Group have presented detailed analyses of the data associated with the wells proposed for abandonment and the extensive delineation, monitoring, and LNAPL recovery history that has been completed on the C Reiss parcel. These submittals include:

- *2022 Progress Report January – December 2022, January 31, 2023;*
- *Results and Analysis of Updated LNAPL Investigation, March 2, 2023.*

Of the (24) wells proposed for abandonment (8) wells have been historically LNAPL monitoring or recovery wells and (16) wells have been dissolved-phase benzene monitoring wells (**Table 1**). Addressing the proposed wells for abandonment from south to north across the redevelopment area of concern, Antea Group notes the following regarding the gauging/sampling history and downgradient delineation of this area:

Non-detect wells installed in public space south of the C Reiss parcel (MW-17, MW-31)

- MW-17
 - Located adjacent to the vertical migration transition zone with a 35-year monitoring history;
 - Sampled 47 times between September 1988 and August 2022;
 - No exceedances of five ug/L NR 141 benzene ES;
 - 45 of 47 sample results non-detect;
 - Delineated downgradient and sidegradient by non-detect wells MWT-2S and MW-52D;
 - Recommendation is to abandon the well without replacement due to the consistent non-detect analytical and extensive history of sampling;
 - Planned for abandonment due to location within the road.
- MW-31
 - Located east, sidegradient/upgradient of the benzene vertical migration transition zone with a 33-year monitoring history;
 - Sampled 46 times between July 1989 and August 2022;
 - No exceedances of five ug/L NR 141 benzene ES;
 - 45 of 46 sample results non-detect;
 - Delineated downgradient by MW-30 and MWT-2 well nests;
 - Recommendation is to abandon the well without replacement due to the consistent non-detect analytical and extensive history of sampling;
 - Planned for abandonment due to location within the railroad grade.

Eastern C Reiss Parcel, Rail Spur Area (MWASt-3, 4, 9; RWAST-2; MRW-5)

- MWASt-3
 - LNAPL AOC 6 delineation well with 19 year monitoring history;
 - 1,020 ug/L benzene during most recent sampling event in August 2022;
 - Delineated downgradient by non-detect well MWM-4;
 - Recommendation is to abandon the well without replacement due to downgradient dissolved-phase delineation at saved well MWM-4;
 - Planned for abandonment due to location under the railroad.

- MWA-4
 - LNAPL AOC 6 LNAPL well with 19 year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring well MWM-4 and upgradient/sidegradient MWA-8 on the Former Amoco parcel;
 - Recommendation is to abandon the well without replacement due to reduced recent LNAPL recovery and downgradient dissolved-phase delineation at saved well MWM-4;
 - Planned for abandonment due to location within the railroad grade.
- MWA-9
 - Located south of LNAPL AOC 9, low impact dissolved-phase delineation well with 19-year monitoring history;
 - Sampled 13 times between October 2003 and August 2022;
 - 22.3 ug/L benzene in August 2022 with five historical non-detect results;
 - Area-wide dissolved-phase delineation coverage exists at MW-30 well nest, MWT-2S, and MWM-4;
 - Recommendation is to abandon the well without replacement due to low-level dissolved phase detections and dissolved-phase delineation coverage at saved well MWM-4;
 - Planned for abandonment due to location within the railroad grade.
- MRW-5
 - LNAPL AOC 8 finger plume well with 11 year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring well MW-48S and MW-48D, and LNAPL wells MRW-6 and LRMW-4;
 - Recommendation is to abandon the well without replacement due to reduced recent Phase II system LNAPL recovery and downgradient dissolved-phase delineation at saved wells MRW-6, MW-48S, and MW-48D;
 - Planned for abandonment due to location within the railroad grade.

Central Berm Area Wells (MW-33, MRW-7, 8, 9, 10; MWM-2, 2D, 3, 6)

- MW-33
 - Non-detect monitoring well with a 31-year monitoring history;
 - One benzene detection (0.6 ug/L) with 37 non-detect results;
 - Delineated sidegradient by non-detect MWT-2S and downgradient by MWM-7 (16.6 ug/L);
 - Recommendation is to abandon the well without replacement due to consistent non-detect dissolved phase concentrations;
 - Planned for abandonment due to location within the soil berm.
- MRW-7
 - LNAPL AOC 8 finger plume well with 11-year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring wells MWM-10S and MW-48S, and LNAPL monitoring well MRW-6;
 - Redevelopment new road corridor and berm placement will surround this area;
 - Recommendation is to abandon the well without replacement due to reduced Phase II system LNAPL recovery and downgradient dissolved-phase delineation at MWM-10S and MW-48S;
 - Planned for abandonment due to location within the soil berm.
- MRW-8
 - LNAPL AOC 8 finger plume well with 11-year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring wells MWM-10S and MW-45S, and low impact well MWM-7 (16.6 ug/L);

- Redevelopment new road corridor and berm placement will surround this area;
 - Recommendation is to abandon the well without replacement due to reduced Phase II system LNAPL recovery and downgradient dissolved-phase delineation at MWM-10S and MWM-7;
 - Planned for abandonment due to location within the soil berm.
- MRW-9
 - LNAPL AOC 8 finger plume well located within the center of the proposed berm with 11 year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring wells MWM-10S and MW-45S, and low impact well MWM-7S (16.6 ug/L);
 - Redevelopment new road and berm placement will surround this area;
 - Recommendation is to abandon the well without replacement due to downgradient dissolved-phase delineation at MWM-10S and MW-45S;
 - Planned for abandonment due to location within the soil berm.
- MRW-10
 - LNAPL AOC 8 finger plume well located within the proposed redevelopment service road with 11-year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring wells MWM-9RS, MWM-10S, and MW-45S, and low impact well MWM-7S (16.6 ug/L);
 - Redevelopment new road and berm placement surround this area;
 - Recommendation is to abandon the well without replacement due to downgradient dissolved-phase delineation at MWM-10S and MWM-7;
 - Planned for abandonment due to location within the soil berm.
- MWM-3
 - LNAPL AOC 8 finger plume well located within the center of the proposed berm with 19-year monitoring and LNAPL recovery history;
 - Delineated downgradient by non-detect monitoring wells MWM-10S and MW-48S, low impact well MWM-7S, and LNAPL monitoring well MRW-6;
 - Redevelopment new road corridor and berm placement surround this area;
 - Recommendation is to abandon the well without replacement due to reduced Phase II system LNAPL recovery and downgradient dissolved-phase delineation at MWM-10S and MWM-7;
 - Planned for abandonment due to location within the soil berm.
- MWM-6
 - LNAPL AOC 8 finger plume well located within the proposed redevelopment service road with 19-year monitoring and LNAPL recovery history;
 - Delineated downgradient by the MWM-7 and MW-37 well nests;
 - Redevelopment new road corridor and berm placement surround this area;
 - Recommendation is to abandon the well without replacement due to limited LNAPL thicknesses and downgradient dissolved-phase delineation at MWM-7 and MW-37;
 - Planned for abandonment due to location within the soil berm.

Non-Detect, Low Impact Perimeter Wells (MW-49S, 49D, MWRR-1, 1D, MWOW-2, 2D, MWBD-1, 1D, 1DD)

- MW-49S/MW-49D Well Nest
 - Northern parcel well nest with 6-year monitoring history;
 - MW-49S has been below the five ug/L NR 140 benzene ES 6 of the last 8 rounds of sampling;
 - MW-49D has been non-detect for benzene during the last six sampling events;
 - Well nest is located near the proposed service road, office building, and stormwater pond;

- Recommendation is to abandon the well without replacement due to consistent concentrations below the NR 140 ES;
 - Planned for abandonment due to location within a parking lot.
- MWRR-1/MWRR-1D Well Nest
 - Northern parcel well nest with 19-year (MWRR-1) and 4-year (MWRR-1D) monitoring history;
 - MWRR-1 has been sampled 17 times during the period October 2003 through August 2022 with five of the last 9 results non-detect for benzene;
 - MWRR-1D has been sampled 11 times during the period June 2018 through November 2022 with benzene detection results ranging from 50.6 ug/L to 510 ug/L; the most recent result in November 2022 was 270 ug/L;
 - The MWRR-1 well nest is located near the former Murphy Oil UST and oil/water separator and may have drilled into contamination related to this historical release activity in this area;
 - The MWRR-1 well nest is located near the proposed service road and rail spur;
 - Recommendation is to abandon the wells without replacement due to decreasing dissolved-phase concentrations.
 - Planned for abandonment due to location within the railroad grade.
- MWOW-2/MWOW-2D Well Nest
 - Northern parcel well nest with 19-year (MWOW-2) and 4-year (MWOW-2D) monitoring history;
 - MWOW-2 has been sampled 17 times during the period October 2003 through August 2022 with the last 13 rounds of sampling below the NR 140 ES for benzene including four non-detect results;
 - MWOW-2D has been sampled 10 times during the period June 2018 through November 2022 and all benzene results have been non detect;
 - The MWOW-2 well nest delineate dissolved-phase groundwater conditions downgradient of LNAPL AOCs 11, 12, and 13 which have demonstrated low benzene content during LNAPL characteristic testing;
 - The MWRR-1 well nest is located within the proposed rail spur development;
 - Recommendation is to abandon the well without replacement due to consistent non-detect dissolved-phase concentrations.
 - Planned for abandonment due to location within the railroad grade.
- MWBD-1/MWBD-1D/MWBD-1DD Well Nest
 - Northern parcel well nest with 9-year (MWBD-1), 8-year (MWBD-1D), and 4-year (MWBD-1DD) monitoring history;
 - MWBD-1 has been sampled eight times during the period October 2003 through August 2022 with all results non-detect for benzene;
 - MWBD-1D has been sampled 18 times during the period October 2014 through November 2022 with benzene exhibiting a decreasing trend from a historical high of 213 ug/L in May 2016 to 61.5 ug/L in August 2022;
 - MWBD-1DD has been sampled five times during the period June 2018 through August 2022 with all benzene results non-detect;
 - The MWBD-1 well nest delineates dissolved-phase groundwater conditions downgradient of LNAPL AOCs 11, 12, and 13 which have demonstrated low benzene content during LNAPL characteristic testing;
 - Recommendation is to abandon the wells without replacement due to vertical dissolved-phase delineation and consistent decreasing concentrations at MWBD-1D;

- Planned for abandonment due to location within the concrete tiles storage area.

SUMMARY AND CONCLUSIONS

To accommodate redevelopment of the C Reiss parcel, Antea Group proposes abandonment of 24 monitoring and recovery wells (**Table 1**). Based on the below conclusions, Antea Group recommends that the wells be abandoned without replacement:

- The C Reiss parcel has been thoroughly assessed over the past 20 years;
- Key wells located on the C Reiss parcel monitoring the transition of dissolved-phase benzene from the shallow well network to the vertical well network will remain in place including the MW-32 well cluster, MW-30 well nest, MWT-2 well nest, and MWM-7;
- Well monitoring coverage remains in the finger plume area with the preservation of MWM-4 and MRW-6;
- The LNAPL extents of AOC 6 and AOC 8 (finger plume) have been well delineated by the decades long monitoring of the groundwater and recovery well networks and multiple rounds of supplemental delineation including two comprehensive CPT-LIF events;
- The extensive horizontal and vertical well network that remains on the Former Amoco, C Reiss, and Hallett Dock parcels provides adequate monitoring coverage across the groundwater attenuation monitoring area of concern;
- Downgradient of the C Reiss parcel there are multiple lines of horizontal and vertical monitoring wells, parallel to groundwater flow direction, monitoring groundwater conditions between the LNAPL benzene source area on the Terminal and surface water;
- The residual LNAPL has been demonstrated to be depleted of light end hydrocarbons, including benzene, fully delineated, and immobile;
- The preponderance of groundwater monitoring wells exhibit stable or decreasing benzene concentrations and Ricker Plume Stability analysis presented in Antea Group's March 2023 *Results and Analysis of Updated LNAPL Investigation* demonstrates the average dissolved-phase benzene plume concentration in the vertical well network is decreasing over time;
- Redevelopment of the C Reiss parcel precludes drilling in many areas due to rail, road, and other commercial improvements; a comprehensive horizontal and vertical well monitoring network remains across the Amoco, C Reiss and Hallett Dock parcels and well abandonment without replacement is recommended;
- The Phase II LNAPL recovery system piping located on the C Reiss parcel will be removed and properly disposed of; the treatment compound system components and piping remaining on the Former Amoco property will be left in place for potential use in the future.

Antea Group requests the review and response to this work plan, along with the soil handling plan submitted for the C Reiss parcel redevelopment (Form 4400-315 and fee, submitted under separate cover) to include a written response indicating the Wisconsin Department of Natural Resources approval for abandonment of 24 monitoring and recovery wells and Phase II system LNAPL recovery system piping without replacement. Redevelopment of the C Reiss parcel is anticipated to begin in May 2023 pending contractor selection.

John Hunt
Wisconsin Department of Natural Resources
March 22, 2023



Questions regarding this memorandum can be directed to Layne Kortbein at the phone number and email listed below.

Sincerely,

A handwritten signature in black ink that reads "Layne Kortbein".

Layne Kortbein

Project Manager

+1 608 408 9954

layne.kortbein@anteagroup.us

Antea Group

ATTACHMENTS

FIGURES

- Figure 1A, 1B, 1C Site Layout and Borehole Locations (Stantec)
- Figure 2 Proposed Monitoring Well Abandonment Plan (Stantec)
- Figure 3 C Reiss Parcel Proposed Wells for Abandonment

TABLES

- Table 1 Proposed Wells for Abandonment
- Table 2 Groundwater and LNAPL Gauging Data – Barge Dock
- Table 3 Groundwater Analytical Results – Barge Dock

John Hunt
Wisconsin Department of Natural Resources
March 22, 2023

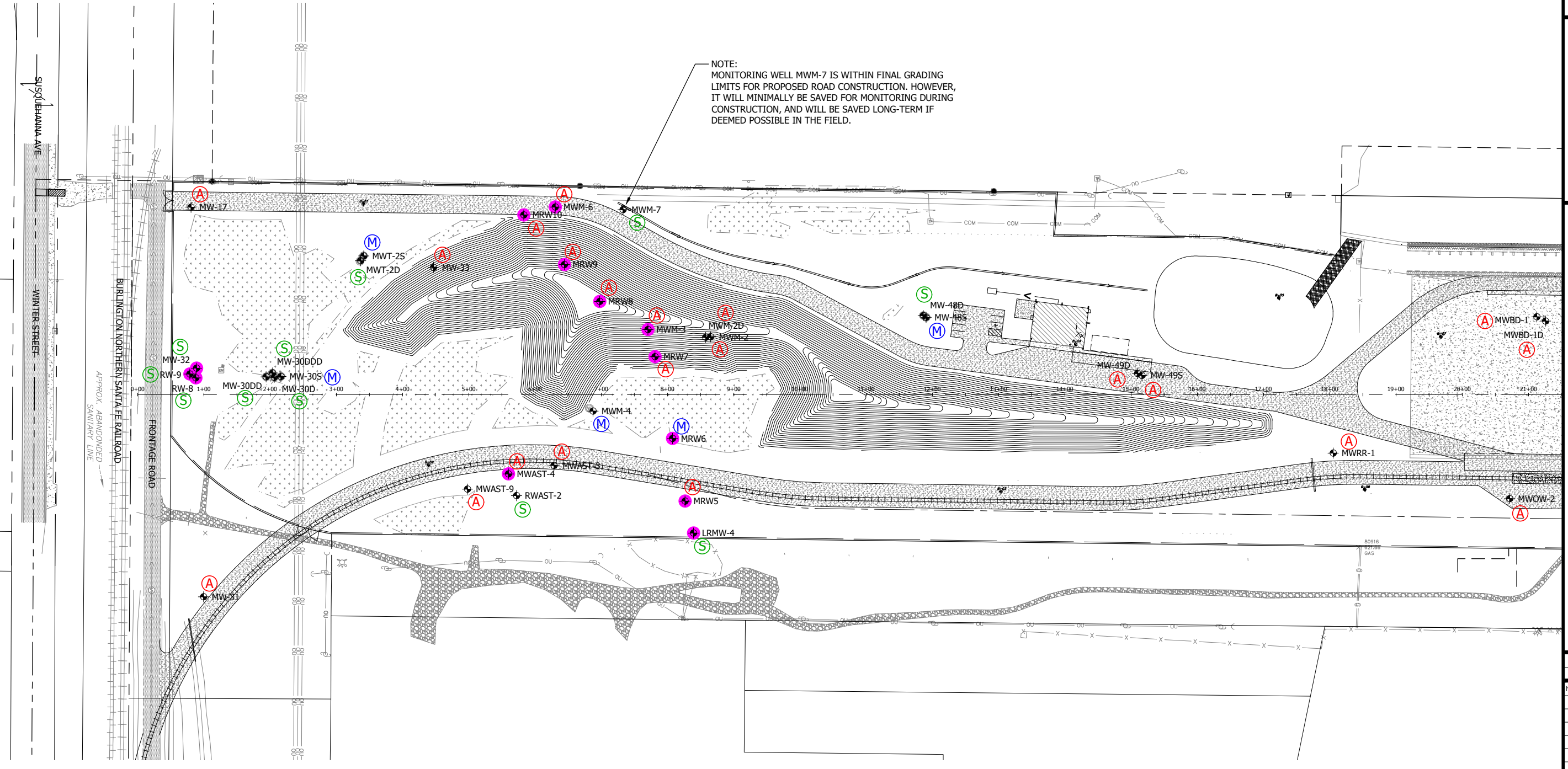


FIGURES

Figure 1A, 1B, 1C Site Layout and Borehole Locations (Stantec)
Figure 2 Proposed Monitoring Well Abandonment Plan (Stantec)
Figure 3 C Reiss Parcel Proposed Wells for Abandonment

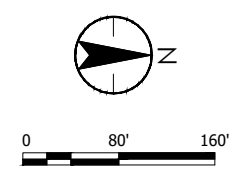
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. NO USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 03/10/2023 - 11:36am
 Drawing name: \\1937\active\193707141\03_data\gk_cad\cad\dwg\SHEETS\Ehribh\MMP\193707141\FG_2.dwg
 User: B-3622\MEG - 193707141_XSLT_193707141_SSR_193707141_SSR - 193707141_NA_2012\5\Mech Overall Layout_2010195\FINAL NETWORK_3h.ctb\font-1-CONTRIBUTOR\HEERLES_BBRW.TMP



NOTE:
 MONITORING WELL MWM-7 IS WITHIN FINAL GRADING LIMITS FOR PROPOSED ROAD CONSTRUCTION. HOWEVER, IT WILL MINIMALLY BE SAVED FOR MONITORING DURING CONSTRUCTION, AND WILL BE SAVED LONG-TERM IF DEEMED POSSIBLE IN THE FIELD.

- LEGEND**
- (M) PROPOSED WELLS TO BE MONITORED
 - (S) WELLS TO BE SAVED
 - (A) WELLS TO BE ABANDONED
 - FREE PRODUCT PRESENT



PROPOSED MONITORING WELL ABANDONMENT PLAN

DATE OF ISSUANCE	MARCH 10, 2023
NO. REVISION	DATE
SURVEY	JN
DRAWN	AJR
DESIGNED	AJR
CHECKED	AJR
APPROVED	AJR
PROJ. NO.	193707141
SHEET NUMBER	FIG. 2

C. RESS DOCK
 C. RESS COMPANY, LLC
 ST. LOUIS BAY, SUPERIOR, WI

John Hunt
Wisconsin Department of Natural Resources
March 22, 2023



TABLES

Table 1	Proposed Wells for Abandonment
Table 2	Groundwater and LNAPL Gauging Data – Barge Dock
Table 3	Groundwater Analytical Results – Barge Dock

Table 1
C Reiss Well Abandon List (March 7, 2023)

Well ID	LNAPL Well (Y/N)	Well Diameter (in)	Screened Interval (ft bgs)	Total Well Depth (ft bgs)	Last Benzene (ug/L)	Last Sampling Date
MW-17	N	2	14-24	24	<1.0	8/1/2022
MW-31	N	2	18.7-28.7	28.7	<1.0	8/1/2022
MW-33	N	2	9.5-24.5	24.5	<1.0	8/3/2022
MW-49S	N	2	8.5-18.5	18.5	4.4	11/1/2022
MW-49D	N	2	51-56	56	<1.0	8/2/2022
MWM-6	Y	2	15-30	30	NS	NS
MRW-5	Y	6	15-30	30	NS	NS
MRW-7	Y	6	19-34	34	NS	NS
MRW-8	Y	6	17-32	32	NS	NS
MRW-9	Y	6	17-32	32	NS	NS
MRW-10	Y	6	17-32	32	NS	NS
MWM-2	N	2	13-28	28	259	8/2/2022
MWM-2D	N	2	53-58	58	<1.0	11/1/2022
MWM-3	Y	4	15-30	30	NS	NS
MWAST-3	N	2	5-20	20	1,020	8/2/2022
MWAST-4	Y	4	10-20	20	NS	NS
MWAST-9	N	2	8-23	25	22.3	8/3/2022
MWRR-1	N	2	5-20	20	<1.0	8/1/2022
MWRR-1D	N	2	50-53	53.5	270	11/2/2022
MWOW-2	N	2	3-8	8	<1.0	8/1/2022
MWOW-2D	N	2	35-38	38	<1.0	11/2/2022
MWBD-1	N	2	5 - 20	20	<1.0	8/1/2022
MWBD-1D	N	2	52 - 55	55	61.5	11/2/2022
MWBD-1DD	N	2	65 - 68	68	<1.0	8/1/2022

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWAST-3	10/22/2003	627.34	629.86	622.34	606.21	NP	0.00	16.59	14.07	613.27	NA	7.06	No	
MWAST-3	1/20/2004	627.34	629.86	622.34	606.21	NP	0.00	17.37	14.85	612.49	-0.78	6.28	No	
MWAST-3	4/19/2004	627.34	629.86	622.34	606.21	NP	0.00	16.48	13.96	613.38	0.89	7.17	No	
MWAST-3	7/27/2004	627.34	629.86	622.34	606.21	NP	0.00	15.32	12.80	614.54	1.16	8.33	No	
MWAST-3	11/16/2004	627.34	629.86	622.34	606.21	NP	0.00	14.18	11.66	615.68	1.14	9.47	No	
MWAST-3	4/18/2005	627.34	629.86	622.34	606.21	NP	0.00	14.10	11.58	615.76	0.08	9.55	No	
MWAST-3	9/9/2005	627.34	629.86	622.34	606.21	NP	0.00	15.51	12.99	614.35	-1.41	8.14	No	
MWAST-3	10/11/2005	627.34	629.86	622.34	606.21	NP	0.00	13.75	11.23	616.11	1.76	9.90	No	
MWAST-3	5/23/2006	627.34	629.86	622.34	606.21	NP	0.00	12.80	10.28	617.06	0.95	10.85	No	
MWAST-3	10/16/2006	627.34	629.86	622.34	606.21	NP	0.00	15.79	13.27	614.07	-2.99	7.86	No	
MWAST-3	4/23/2007	627.34	629.86	622.34	606.21	NP	0.00	15.80	13.28	614.06	-0.01	7.85	No	
MWAST-3	9/25/2007	627.34	629.69	622.34	606.21	NP	0.00	15.82	13.47	613.87	-0.19	7.66	No	
MWAST-3	5/1/2008	627.34	629.69	622.34	606.21	NP	0.00	12.38	10.03	617.31	3.44	11.10	No	
MWAST-3	10/20/2008	627.34	629.69	622.34	606.21	NP	0.00	12.36	10.01	617.33	0.02	11.12	No	
MWAST-3	8/31/2011	627.34	629.69	622.34	606.21	NP	0.00	12.49	10.14	617.20	-0.13	10.99	No	
MWAST-3	10/11/2011	627.34	629.69	622.34	606.21	NP	0.00	14.33	11.98	615.36	-1.84	9.15	No	
MWAST-3	1/4/2012	627.34	629.69	622.34	606.21	NP	0.00	15.77	13.42	613.92	-1.44	7.71	No	
MWAST-3	4/16/2012	627.34	629.69	622.34	606.21	NP	0.00	15.88	13.53	613.81	-0.11	7.60	No	
MWAST-3	6/28/2012	627.34	629.69	622.34	606.21	NP	0.00	11.21	8.86	618.48	4.67	12.27	No	
MWAST-3	9/30/2012	627.34	629.69	622.34	606.21	NP	0.00	15.44	13.09	614.25	-4.23	8.04	No	
MWAST-3	12/17/2012	627.34	629.69	622.34	606.21	NP	0.00	16.29	13.94	613.40	-0.85	7.19	No	
MWAST-3	3/25/2013	627.34	629.69	622.34	606.21	NP	0.00	17.30	14.95	612.39	-1.01	6.18	No	
MWAST-3	5/5/2013	627.34	629.69	622.34	606.21	NP	0.00	15.36	13.01	614.33	1.94	8.12	No	
MWAST-3	10/3/2013	627.34	629.69	622.34	606.21	NP	0.00	15.78	13.43	613.91	-0.42	7.70	No	
MWAST-3	5/21/2014	627.34	629.69	622.34	606.21	NP	0.00	11.52	9.17	618.17	4.26	11.96	No	
MWAST-3	10/31/2014	627.34	629.69	622.34	606.21	NP	0.00	13.70	11.35	615.99	-2.18	9.78	No	
MWAST-3	5/6/2015	627.34	629.69	622.34	606.21	NP	0.00	15.10	12.75	614.59	-1.40	8.38	No	
MWAST-3	10/5/2015	627.34	629.69	622.34	606.21	NP	0.00	13.39	11.04	616.30	1.71	10.09	No	
MWAST-3	5/23/2016	627.34	629.69	622.34	606.21	NP	0.00	11.10	8.75	618.59	2.29	12.38	No	
MWAST-3	10/3/2016	627.34	629.69	622.34	606.21	NP	0.00	13.18	10.83	616.51	-2.08	10.30	No	
MWAST-3	6/29/2017	627.34	629.69	622.34	606.21	NP	0.00	12.06	9.71	617.63	1.12	11.42	No	
MWAST-3	5/14/2018	627.34	629.69	622.34	606.21	NP	0.00	13.72	11.37	615.97	-1.66	9.76	No	
MWAST-3	5/30/2018	627.34	629.69	622.34	606.21	NP	0.00	13.52	11.17	616.17	0.20	9.96	No	
MWAST-3	5/18/2018	627.34	629.69	622.34	606.21	NP	0.00	11.85	9.50	617.84	1.67	11.63	No	
MWAST-3	6/19/2018	627.34	629.69	622.34	606.21	NP	0.00	11.85	9.50	617.84	0.00	11.63	No	
MWAST-3	6/3/2019	627.34	629.69	622.34	606.21	NP	0.00	11.38	9.03	618.31	0.47	12.10	No	
MWAST-3	5/26/2020	627.34	629.69	622.34	606.21	NP	0.00	11.53	9.18	618.16	-0.15	11.95	No	
MWAST-3	5/24/2021	627.34	629.69	622.34	606.21	NP	0.00	12.93	10.58	616.76	-1.40	10.55	No	
MWAST-3	6/3/2022	627.34	629.69	622.34	606.21	NP	0.00	11.81	9.46	617.88	1.12	11.67	No	
MWAST-4	10/23/2003	628.17	630.76	618.17	608.17	15.34	7.20	22.54	14.64	613.53	NA	7.25	No	
MWAST-4	12/3/2003	628.17	630.76	618.17	608.17	15.55	6.99	22.54	14.79	613.38	-0.16	7.04	No	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWAST-4	1/20/2004	628.17	630.76	618.17	608.17	15.91	6.70	22.61	15.07	613.10	-0.28	6.68	No	
MWAST-4	4/19/2004	628.17	630.76	618.17	608.17	15.86	4.87	20.73	14.55	613.62	0.53	6.73	No	
MWAST-4	7/27/2004	628.17	630.76	618.17	608.17	14.87	3.77	18.64	13.27	614.90	1.28	7.72	No	
MWAST-4	11/15/2004	628.17	630.76	618.17	608.17	13.97	2.41	16.38	12.01	616.16	1.26	8.62	No	
MWAST-4	4/18/2005	628.17	630.76	618.17	608.17	14.08	2.50	16.58	12.14	616.03	-0.13	8.51	No	
MWAST-4	9/9/2005	628.17	630.76	618.17	608.17	14.33	5.84	20.17	13.27	614.90	-1.12	8.26	No	
MWAST-4	10/11/2005	628.17	630.76	618.17	608.17	13.99	1.61	15.60	11.82	616.35	1.45	8.60	No	
MWAST-4	5/23/2006	628.17	630.76	618.17	608.17	12.64	2.17	14.81	10.62	617.55	1.20	9.95	No	
MWAST-4	10/16/2006	628.17	630.76	618.17	608.17	14.64	6.27	20.91	13.69	614.48	-3.07	7.95	No	
MWAST-4	4/23/2007	628.17	630.76	618.17	608.17	15.10	4.81	19.91	13.77	614.40	-0.08	7.49	No	
MWAST-4	9/25/2007	628.17	630.76	618.17	608.17	15.25	5.59	20.84	14.12	614.05	-0.35	7.34	No	
MWAST-4	5/1/2008	628.17	630.76	618.17	608.17	13.42	1.00	14.42	11.09	617.08	3.03	9.17	No	
MWAST-4	10/20/2008	628.17	630.76	618.17	608.17	12.57	1.78	14.35	10.45	617.72	0.65	10.02	No	
MWAST-4	8/31/2011	628.17	630.76	618.17	608.17	12.21	3.01	15.22	10.41	617.76	0.04	10.38	No	
MWAST-4	10/10/2011	628.17	630.76	618.17	608.17	13.65	5.23	18.88	12.43	615.74	-2.02	8.94	No	
MWAST-4	1/4/2012	628.17	630.76	618.17	608.17	14.59	7.05	21.64	13.85	614.32	-1.42	8.00	No	
MWAST-4	4/11/2012	628.17	630.76	618.17	608.17	15.23	6.13	21.36	14.25	613.92	-0.40	7.36	No	Spill Buddy Before Reading
MWAST-4	4/16/2012	628.17	630.76	618.17	608.17	15.24	5.43	20.67	14.07	614.10	0.17	7.35	No	
MWAST-4	6/28/2012	628.17	630.76	618.17	608.17	11.63	1.73	13.36	9.49	618.68	4.58	10.96	Yes	
MWAST-4	7/3/2012	628.17	630.76	618.17	608.17	12.11	1.47	13.58	9.90	618.27	-0.41	10.48	Yes	Spill Buddy Before Reading
MWAST-4	8/28/2012	628.17	630.76	618.17	608.17	14.07	3.86	17.93	12.49	615.68	-2.59	8.52	No	Spill Buddy Before Reading
MWAST-4	9/28/2012	628.17	630.76	618.17	608.17	14.47	6.03	20.50	13.46	614.71	-0.97	8.12	No	Spill Buddy Before Reading
MWAST-4	9/30/2012	628.17	630.76	618.17	608.17	14.50	5.54	20.04	13.36	614.81	0.10	8.09	No	
MWAST-4	11/21/2012	628.17	630.76	618.17	608.17	14.45	7.25	21.70	13.76	614.41	-0.40	8.14	No	
MWAST-4	12/17/2012	628.17	630.76	618.17	608.17	15.14	6.88	22.02	14.35	613.82	-0.59	7.45	No	
MWAST-4	3/25/2013	628.17	630.76	618.17	608.17	15.89	6.70	22.59	15.05	613.12	-0.70	6.70	No	
MWAST-4	4/29/2013	628.17	630.76	618.17	608.17	15.58	3.19	18.77	13.83	614.34	1.23	7.01	No	Spill Buddy Before Reading
MWAST-4	5/5/2013	628.17	630.76	618.17	608.17	15.52	2.41	17.93	13.56	614.61	0.26	7.07	No	
MWAST-4	10/3/2013	628.17	630.76	618.17	608.17	14.93	5.88	20.81	13.88	614.29	-0.32	7.66	No	
MWAST-4	5/22/2014	628.17	630.76	618.17	608.17	12.06	0.66	12.72	9.64	618.53	4.24	10.53	Yes	
MWAST-4	10/31/2014	628.17	630.76	618.17	608.17	13.46	2.87	16.33	11.62	616.55	-1.98	9.13	No	
MWAST-4	4/15/2015	628.17	630.76	618.17	608.17	15.00	6.33	21.33	14.07	614.10	-2.45	7.59	No	
MWAST-4	4/22/2015	628.17	630.76	618.17	608.17	14.78	5.07	19.85	13.52	614.65	0.55	7.81	No	
MWAST-4	4/29/2015	628.17	630.76	618.17	608.17	14.73	4.11	18.84	13.22	614.95	0.30	7.86	No	
MWAST-4	5/6/2015	628.17	630.76	618.17	608.17	14.66	3.98	18.64	13.11	615.06	0.10	7.93	No	
MWAST-4	5/12/2015	628.17	630.76	618.17	608.17	14.58	2.80	17.38	12.72	615.45	0.39	8.01	No	
MWAST-4	6/9/2015	628.17	630.76	618.17	608.17	13.45	1.66	15.11	11.29	616.88	1.43	9.14	No	
MWAST-4	7/10/2015	628.17	630.76	618.17	608.17	15.17	0.29	15.46	12.66	615.51	-1.36	7.42	No	
MWAST-4	7/13/2015	628.17	630.76	618.17	608.17	15.10	0.40	15.50	12.61	615.56	0.04	7.49	No	
MWAST-4	9/10/2015	628.17	630.76	618.17	608.17	15.51	0.19	15.70	12.97	615.20	-0.36	7.08	No	
MWAST-4	10/5/2015	628.17	630.76	618.17	608.17	14.50	0.10	14.60	11.94	616.23	1.03	8.09	No	

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Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWAST-4	11/3/2015	628.17	630.76	618.17	608.17	14.76	0.28	15.04	12.24	615.93	-0.31	7.83	No	
MWAST-4	4/21/2016	628.17	630.76	618.17	608.17	11.34	2.78	14.12	9.48	618.69	2.77	11.25	Yes	
MWAST-4	6/21/2016	628.17	630.76	618.17	608.17	11.39	0.18	11.57	8.85	619.32	0.63	11.20	Yes	
MWAST-4	5/2/2017	628.17	630.76	618.17	608.17	12.52	1.17	13.69	10.24	617.93	-1.39	10.07	No	
MWAST-4	5/8/2017	628.17	630.76	618.17	608.17	12.67	0.01	12.68	10.08	618.09	0.15	9.92	No	
MWAST-4	5/25/2017	628.17	630.76	618.17	608.17	NP	0.00	10.82	8.23	619.94	1.85	11.77	Yes	
MWAST-4	5/31/2017	628.17	630.76	618.17	608.17	NP	0.00	11.85	9.26	618.91	-1.03	10.74	Yes	
MWAST-4	6/14/2017	628.17	630.76	618.17	608.17	NP	0.00	12.26	9.67	618.50	-0.41	10.33	Yes	
MWAST-4	6/21/2017	628.17	630.76	618.17	608.17	12.58	0.17	12.75	10.03	618.14	-0.36	10.01	No	
MWAST-4	7/7/2017	628.17	630.76	618.17	608.17	12.73	0.03	12.76	10.15	618.02	-0.11	9.86	No	
MWAST-4	7/19/2017	628.17	630.76	618.17	608.17	12.44	0.06	12.50	9.87	618.30	0.28	10.15	Yes	
MWAST-4	8/8/2017	628.17	630.76	618.17	608.17	12.98	0.24	13.22	10.45	617.72	-0.59	9.61	No	
MWAST-4	8/15/2017	628.17	630.76	618.17	608.17	12.39	0.09	12.48	9.82	618.35	0.63	10.20	Yes	
MWAST-4	8/22/2017	628.17	630.76	618.17	608.17	11.98	0.17	12.15	9.43	618.74	0.39	10.61	Yes	
MWAST-4	9/7/2017	628.17	630.76	618.17	608.17	NP	0.00	11.00	8.41	619.76	1.02	11.59	Yes	
MWAST-4	9/14/2017	628.17	630.76	618.17	608.17	11.59	0.05	11.64	9.01	619.16	-0.60	11.00	Yes	
MWAST-4	9/27/2017	628.17	630.76	618.17	608.17	11.80	0.28	12.08	9.28	618.89	-0.27	10.79	Yes	
MWAST-4	10/26/2017	628.17	630.76	618.17	608.17	10.76	0.39	11.15	8.27	619.90	1.01	11.83	Yes	
MWAST-4	5/14/2018	628.17	630.76	618.17	608.17	14.38	1.62	16.00	12.21	615.96	-3.94	8.21	No	
MWAST-4	5/15/2018	628.17	630.76	618.17	608.17	14.96	0.19	15.15	12.42	615.75	-0.21	7.63	No	
MWAST-4	5/23/2018	628.17	630.76	618.17	608.17	14.60	0.60	15.20	12.17	616.00	0.25	7.99	No	
MWAST-4	5/24/2018	628.17	630.76	618.17	608.17	14.55	1.70	16.25	12.41	615.76	-0.24	8.04	No	
MWAST-4	5/30/2018	628.17	630.76	618.17	608.17	14.32	0.36	14.68	11.82	616.35	0.58	8.27	No	
MWAST-4	6/8/2018	628.17	630.76	618.17	608.17	13.89	0.97	14.86	11.55	616.62	0.27	8.70	No	
MWAST-4	6/28/2018	628.17	630.76	618.17	608.17	12.45	1.15	13.60	10.16	618.01	1.39	10.14	No	
MWAST-4	7/3/2018	628.17	630.76	618.17	608.17	12.47	1.17	13.64	10.19	617.98	-0.03	10.12	No	
MWAST-4	7/10/2018	628.17	630.76	618.17	608.17	12.55	1.25	13.80	10.29	617.88	-0.10	10.04	No	
MWAST-4	7/25/2018	628.17	630.76	618.17	608.17	13.23	1.42	14.65	11.01	617.16	-0.72	9.36	No	
MWAST-4	8/8/2018	628.17	630.76	618.17	608.17	13.75	1.70	15.45	11.61	616.56	-0.59	8.84	No	
MWAST-4	8/16/2018	628.17	630.76	618.17	608.17	13.97	2.14	16.11	11.94	616.23	-0.34	8.62	No	
MWAST-4	9/4/2018	628.17	630.76	618.17	608.17	14.30	2.08	16.38	12.25	615.92	-0.31	8.29	No	Pump installed in well
MWAST-4	9/17/2018	628.17	630.76	618.17	608.17	14.80	0.50	15.30	12.34	615.83	-0.09	7.79	No	
MWAST-4	10/22/2018	628.17	630.76	618.17	608.17	13.60	0.91	14.51	11.25	616.92	1.09	8.99	No	
MWAST-4	10/29/2018	628.17	630.76	618.17	608.17	13.60	0.77	14.37	11.21	616.96	0.04	8.99	No	
MWAST-4	5/2/2019	628.17	630.76	618.17	608.17	13.53	1.13	14.66	11.24	616.93	-0.02	9.06	No	
MWAST-4	5/7/2019	628.17	630.76	618.17	608.17	13.28	1.28	14.56	11.03	617.14	0.21	9.31	No	
MWAST-4	5/14/2019	628.17	630.76	618.17	608.17	11.67	2.33	14.00	9.69	618.48	1.34	10.92	Yes	Pump Removed from well, on Gauge and Bail Schedule
MWAST-4	5/22/2019	628.17	630.76	618.17	608.17	10.40	3.49	13.89	8.72	619.45	0.97	12.19	Yes	
MWAST-4	5/28/2019	628.17	630.76	618.17	608.17	10.22	3.36	13.58	8.51	619.66	0.21	12.37	Yes	
MWAST-4	6/13/2019	628.17	630.76	618.17	608.17	10.84	2.23	13.07	8.83	619.34	-0.32	11.75	Yes	
MWAST-4	6/24/2019	628.17	630.76	618.17	608.17	11.71	1.76	13.47	9.58	618.59	-0.75	10.88	Yes	

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MWAST-4	7/3/2019	628.17	630.76	618.17	608.17	11.45	1.95	13.40	9.37	618.80	0.21	11.14	Yes	
MWAST-4	7/25/2019	628.17	630.76	618.17	608.17	12.81	1.67	14.48	10.66	617.51	-1.29	9.78	No	
MWAST-4	8/5/2019	628.17	630.76	618.17	608.17	13.29	1.58	14.87	11.11	617.06	-0.46	9.30	No	
MWAST-4	8/14/2019	628.17	630.76	618.17	608.17	13.50	1.99	15.49	11.43	616.74	-0.32	9.09	No	
MWAST-4	8/28/2019	628.17	630.76	618.17	608.17	13.87	2.15	16.02	11.84	616.33	-0.41	8.72	No	
MWAST-4	9/12/2019	628.17	630.76	618.17	608.17	13.91	2.09	16.00	11.87	616.30	-0.02	8.68	No	
MWAST-4	9/25/2019	628.17	630.76	618.17	608.17	13.38	1.49	14.87	11.18	616.99	0.69	9.21	No	
MWAST-4	10/8/2019	628.17	630.76	618.17	608.17	12.64	1.09	13.73	10.34	617.83	0.84	9.95	No	
MWAST-4	10/29/2019	628.17	630.76	618.17	608.17	11.72	1.37	13.09	9.49	618.68	0.85	10.87	Yes	
MWAST-4	4/22/2020	628.17	630.76	618.17	608.17	10.09	2.97	13.06	8.28	619.89	1.21	12.50	Yes	
MWAST-4	4/30/2020	628.17	630.76	618.17	608.17	10.79	0.14	10.93	8.24	619.93	0.04	11.80	Yes	
MWAST-4	5/11/2020	628.17	630.76	618.17	608.17	10.98	0.06	11.04	8.41	619.76	-0.17	11.61	Yes	
MWAST-4	5/26/2020	628.17	630.76	618.17	608.17	11.33	2.02	13.35	9.27	618.90	-0.86	11.26	Yes	
MWAST-4	6/11/2020	628.17	630.76	618.17	608.17	11.86	1.70	13.56	9.72	618.45	-0.45	10.73	Yes	
MWAST-4	6/22/2020	628.17	630.76	618.17	608.17	12.35	1.78	14.13	10.23	617.94	-0.51	10.24	No	
MWAST-4	7/6/2020	628.17	630.76	618.17	608.17	12.94	1.93	14.87	10.86	617.31	-0.63	9.65	No	
MWAST-4	7/20/2020	628.17	630.76	618.17	608.17	12.98	1.73	14.71	10.84	617.33	0.01	9.61	No	
MWAST-4	8/12/2020	628.17	630.76	618.17	608.17	12.52	2.16	14.68	10.50	617.67	0.35	10.07	No	
MWAST-4	8/25/2020	628.17	630.76	618.17	608.17	13.10	1.84	14.94	10.99	617.18	-0.50	9.49	No	
MWAST-4	9/8/2020	628.17	630.76	618.17	608.17	13.27	1.95	15.22	11.19	616.98	-0.20	9.32	No	
MWAST-4	4/28/2021	628.17	630.76	618.17	608.17	13.12	1.31	14.43	10.87	617.30	0.32	9.47	No	
MWAST-4	5/6/2021	628.17	630.76	618.17	608.17	13.06	1.46	14.52	10.85	617.32	0.02	9.53	No	3 gallons bailed
MWAST-4	5/13/2021	628.17	630.76	618.17	608.17	13.24	1.48	14.72	11.04	617.13	-0.19	9.35	No	1.5 gallons bailed
MWAST-4	5/19/2021	628.17	630.76	618.17	608.17	13.44	1.56	15.00	11.26	616.91	-0.22	9.15	No	
MWAST-4	5/24/2021	628.17	630.76	618.17	608.17	13.14	1.59	14.73	10.97	617.20	0.29	9.45	No	
MWAST-4	5/28/2021	628.17	630.76	618.17	608.17	13.13	0.99	14.12	10.80	617.37	0.17	9.46	No	2.5 gallons bailed
MWAST-4	6/8/2021	628.17	630.76	618.17	608.17	13.30	1.42	14.72	11.08	617.09	-0.28	9.29	No	2 gallons bailed
MWAST-4	6/22/2021	628.17	630.76	618.17	608.17	13.74	1.95	15.69	11.66	616.51	-0.58	8.85	No	3 gallons bailed
MWAST-4	7/1/2021	628.17	630.76	618.17	608.17	13.69	1.78	15.47	11.57	616.60	0.09	8.90	No	3 gallons bailed
MWAST-4	7/12/2021	628.17	630.76	618.17	608.17	13.80	2.17	15.97	11.78	616.39	-0.21	8.79	No	4 gallons bailed
MWAST-4	7/27/2021	628.17	630.76	618.17	608.17	14.13	2.80	16.93	12.27	615.90	-0.49	8.46	No	4 gallons bailed
MWAST-4	8/3/2021	628.17	630.76	618.17	608.17	14.19	2.85	17.04	12.35	615.82	-0.07	8.40	No	4 gallons bailed
MWAST-4	8/24/2021	628.17	630.76	618.17	608.17	14.42	3.84	18.26	12.84	615.33	-0.49	8.17	No	5 gallons bailed
MWAST-4	9/14/2021	628.17	630.76	618.17	608.17	14.55	4.09	18.64	13.03	615.14	-0.20	8.04	No	6 gallons bailed
MWAST-4	9/28/2021	628.17	630.76	618.17	608.17	14.56	3.58	18.14	12.91	615.26	0.12	8.03	No	5 gallons bailed
MWAST-4	10/19/2021	628.17	630.76	618.17	608.17	14.60	3.31	17.91	12.88	615.29	0.03	7.99	No	4.25 gallons bailed
MWAST-4	5/2/2022	628.17	630.76	618.17	608.17	14.34	0.50	14.84	11.88	616.29	1.00	8.25	No	System startup
MWAST-4	5/10/2022	628.17	630.76	618.17	608.17	13.91	0.58	14.49	11.47	616.70	0.41	8.68	No	
MWAST-4	5/19/2022	628.17	630.76	618.17	608.17	12.39	1.68	14.07	10.24	617.93	1.23	10.20	No	
MWAST-4	6/3/2022	628.17	630.76	618.17	608.17	11.94	2.09	14.03	9.90	618.27	0.34	10.65	Yes	
MWAST-4	6/10/2022	628.17	630.76	618.17	608.17	12.89	0.16	13.05	10.34	617.83	-0.44	9.70	No	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWAST-4	6/16/2022	628.17	630.76	618.17	608.17	13.07	0.88	13.95	10.71	617.46	-0.37	9.52	No	
MWAST-4	6/23/2022	628.17	630.76	618.17	608.17	13.20	1.05	14.25	10.88	617.29	-0.17	9.39	No	
MWAST-4	6/30/2022	628.17	630.76	618.17	608.17	13.20	1.15	14.35	10.91	617.26	-0.03	9.39	No	
MWAST-4	7/12/2022	628.17	630.76	618.17	608.17	13.62	1.33	14.95	11.38	616.79	-0.47	8.97	No	1 gallons bailed
MWAST-4	7/25/2022	628.17	630.76	618.17	608.17	13.94	1.73	15.67	11.80	616.37	-0.42	8.65	No	
MWAST-4	8/15/2022	628.17	630.76	618.17	608.17	14.38	2.50	16.88	12.44	615.73	-0.64	8.21	No	2.5 gallons bailed
MWAST-4	8/26/2022	628.17	630.76	618.17	608.17	14.44	2.58	17.02	12.53	615.64	-0.08	8.15	No	3.0 gallons bailed
MWAST-4	9/8/2022	628.17	630.76	618.17	608.17	14.51	2.90	17.41	12.68	615.49	-0.15	8.08	No	3.0 gallons bailed
MWAST-4	10/5/2022	628.17	630.76	618.17	608.17	14.67	3.15	17.82	12.90	615.27	-0.23	7.92	No	3.5 gallons bailed
MWAST-9	10/22/2003	629.27	631.60	621.27	605.80	NP	0.00	17.70	15.37	613.90	NA	8.10	No	
MWAST-9	1/20/2004	629.27	631.60	621.27	605.80	NP	0.00	18.46	16.13	613.14	-0.76	7.34	No	
MWAST-9	4/19/2004	629.27	631.60	621.27	605.80	NP	0.00	17.89	15.56	613.71	0.57	7.91	No	
MWAST-9	7/27/2004	629.27	631.60	621.27	605.80	NP	0.00	16.48	14.15	615.12	1.41	9.32	No	
MWAST-9	11/16/2004	629.27	631.60	621.27	605.80	NP	0.00	15.29	12.96	616.31	1.19	10.51	No	
MWAST-9	4/18/2005	629.27	631.60	621.27	605.80	NP	0.00	15.18	12.85	616.42	0.11	10.62	No	
MWAST-9	10/11/2005	629.27	631.60	621.27	605.80	NP	0.00	14.91	12.58	616.69	0.27	10.89	No	
MWAST-9	5/23/2006	629.27	631.60	621.27	605.80	NP	0.00	13.86	11.53	617.74	1.05	11.94	No	
MWAST-9	10/16/2006	629.27	631.60	621.27	605.80	NP	0.00	16.88	14.55	614.72	-3.02	8.92	No	
MWAST-9	4/23/2007	629.27	631.60	621.27	605.80	NP	0.00	17.14	14.81	614.46	-0.26	8.66	No	
MWAST-9	9/25/2007	629.27	631.43	621.27	605.80	NP	0.00	17.50	15.34	613.93	-0.53	8.13	No	
MWAST-9	5/1/2008	629.27	631.43	621.27	605.80	NP	0.00	15.55	13.39	615.88	1.95	10.08	No	
MWAST-9	10/20/2008	629.27	631.43	621.27	605.80	NP	0.00	14.76	12.60	616.67	0.79	10.87	No	
MWAST-9	8/31/2011	629.27	631.43	621.27	605.80	NP	0.00	13.83	11.67	617.60	0.93	11.80	No	
MWAST-9	10/11/2011	629.27	631.43	621.27	605.80	NP	0.00	15.41	13.25	616.02	-1.58	10.22	No	
MWAST-9	1/4/2012	629.27	631.43	621.27	605.80	NP	0.00	16.95	14.79	614.48	-1.54	8.68	No	
MWAST-9	4/16/2012	629.27	631.43	621.27	605.80	NP	0.00	17.34	15.18	614.09	-0.39	8.29	No	
MWAST-9	6/28/2012	629.27	631.43	621.27	605.80	NP	0.00	12.52	10.36	618.91	4.82	13.11	No	
MWAST-9	9/30/2012	629.27	631.43	621.27	605.80	NP	0.00	16.60	14.44	614.83	-4.08	9.03	No	
MWAST-9	12/17/2012	629.27	631.43	621.27	605.80	NP	0.00	17.52	15.36	613.91	-0.92	8.11	No	
MWAST-9	3/25/2013	629.27	631.43	621.27	605.80	NP	0.00	18.52	16.36	612.91	-1.00	7.11	No	
MWAST-9	5/5/2013	629.27	631.43	621.27	605.80	NP	0.00	16.81	14.65	614.62	1.71	8.82	No	
MWAST-9	10/3/2013	629.27	631.43	621.27	605.80	NP	0.00	17.01	14.85	614.42	-0.20	8.62	No	
MWAST-9	5/21/2014	629.27	631.43	621.27	605.80	NP	0.00	13.02	10.86	618.41	3.99	12.61	No	
MWAST-9	10/31/2014	629.27	631.43	621.27	605.80	NP	0.00	14.92	12.76	616.51	-1.90	10.71	No	
MWAST-9	5/6/2015	629.27	631.43	621.27	605.80	NP	0.00	16.34	14.18	615.09	-1.42	9.29	No	
MWAST-9	7/10/2015	629.27	631.43	621.27	605.80	15.17	0.03	15.20	13.02	616.25	1.16	10.46	No	
MWAST-9	10/5/2015	629.27	631.43	621.27	605.80	NP	0.00	14.56	12.40	616.87	0.62	11.07	No	
MWAST-9	5/23/2016	629.27	631.43	621.27	605.80	NP	0.00	12.12	9.96	619.31	2.44	13.51	No	
MWAST-9	10/3/2016	629.27	631.43	621.27	605.80	NP	0.00	14.29	12.13	617.14	-2.17	11.34	No	
MWAST-9	6/29/2017	629.27	631.43	621.27	605.80	NP	0.00	15.10	12.94	616.33	-0.81	10.53	No	
MWAST-9	5/14/2018	629.27	631.43	621.27	605.80	NP	0.00	14.94	12.78	616.49	0.16	10.69	No	

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MWAST-9	5/26/2020	629.27	631.43	621.27	605.80	NP	0.00	12.63	10.47	618.80	2.31	13.00	No	
MWAST-9	5/24/2021	629.27	631.43	621.27	605.80	NP	0.00	14.13	11.97	617.30	-1.50	11.50	No	
MWAST-9	6/3/2022	629.27	631.43	621.27	605.80	NP	0.00	13.15	10.99	618.28	0.98	12.48	No	
MWM-2	10/21/2003	626.14	628.94	613.14	597.36	NP	0.00	18.39	15.59	610.55	NA	13.19	No	
MWM-2	1/20/2004	626.14	628.94	613.14	597.36	NP	0.00	19.16	16.36	609.78	-0.77	12.42	No	
MWM-2	4/19/2004	626.14	628.94	613.14	597.36	NP	0.00	17.38	14.58	611.56	1.78	14.20	No	
MWM-2	11/18/2004	Well Damaged												
MWM-2	4/18/2005	Well Damaged												
MWM-2	8/1/2005	Well Repaired August 2005												
MWM-2	10/11/2005	626.14	628.94	613.14	597.36	NP	0.00	15.98	13.18	612.96	NA	15.60	No	
MWM-2	5/23/2006	626.14	628.94	613.14	597.36	NP	0.00	14.94	12.14	614.00	1.04	16.64	Yes	
MWM-2	10/16/2006	626.14	628.94	613.14	597.36	NP	0.00	17.56	14.76	611.38	-2.62	14.02	No	
MWM-2	4/23/2007	626.14	628.94	613.14	597.36	NP	0.00	17.75	14.95	611.19	-0.19	13.83	No	
MWM-2	9/25/2007	626.14	628.94	613.14	597.36	NP	0.00	17.36	14.56	611.58	0.39	14.22	No	
MWM-2	5/1/2008	626.14	628.94	613.14	597.36	NP	0.00	15.65	12.85	613.29	1.71	15.93	Yes	
MWM-2	10/20/2008	626.14	628.94	613.14	597.36	NP	0.00	14.59	11.79	614.35	1.06	16.99	Yes	
MWM-2	8/31/2011	626.14	628.94	613.14	597.36	NP	0.00	15.19	12.39	613.75	-0.60	16.39	Yes	
MWM-2	10/11/2011	626.14	628.94	613.14	597.36	NP	0.00	17.13	14.33	611.81	-1.94	14.45	No	
MWM-2	1/4/2012	626.14	628.94	613.14	597.36	NP	0.00	17.88	15.08	611.06	-0.75	13.70	No	
MWM-2	4/16/2012	626.14	628.94	613.14	597.36	NP	0.00	17.05	14.25	611.89	0.83	14.53	No	
MWM-2	6/28/2012	626.14	628.94	613.14	597.36	NP	0.00	13.57	10.77	615.37	3.48	18.01	Yes	
MWM-2	9/30/2012	626.14	628.94	613.14	597.36	NP	0.00	17.66	14.86	611.28	-4.09	13.92	No	
MWM-2	12/17/2012	626.14	628.94	613.14	597.36	NP	0.00	18.10	15.30	610.84	-0.44	13.48	No	
MWM-2	3/25/2013	626.14	628.94	613.14	597.36	NP	0.00	19.01	16.21	609.93	-0.91	12.57	No	
MWM-2	5/5/2013	626.14	628.94	613.14	597.36	NP	0.00	16.37	13.57	612.57	2.64	15.21	No	
MWM-2	10/1/2013	626.14	628.94	613.14	597.36	NP	0.00	17.49	14.69	611.45	-1.12	14.09	No	
MWM-2	5/21/2014	626.14	628.94	613.14	597.36	NP	0.00	18.57	15.77	610.37	-1.08	13.01	No	
MWM-2	10/30/2014	626.14	628.94	613.14	597.36	NP	0.00	15.58	12.78	613.36	2.99	16.00	Yes	
MWM-2	5/6/2015	626.14	628.94	613.14	597.36	NP	0.00	16.53	13.73	612.41	-0.95	15.05	No	
MWM-2	10/5/2015	626.14	628.94	613.14	597.36	NP	0.00	15.34	12.54	613.60	1.19	16.24	Yes	
MWM-2	5/23/2016	626.14	628.94	613.14	597.36	NP	0.00	13.98	11.18	614.96	1.36	17.60	Yes	
MWM-2	10/3/2016	626.14	628.94	613.14	597.36	NP	0.00	15.43	12.63	613.51	-1.45	16.15	Yes	
MWM-2	6/29/2017	626.14	628.94	613.14	597.36	NP	0.00	14.39	11.59	614.55	1.04	17.19	Yes	
MWM-2	6/3/2019	626.14	628.94	613.14	597.36	NP	0.00	13.76	10.96	615.18	0.63	17.82	Yes	
MWM-2	5/26/2020	626.14	628.94	613.14	597.36	NP	0.00	14.27	11.47	614.67	-0.51	17.31	Yes	
MWM-2	5/24/2021	626.14	628.94	613.14	597.36	NP	0.00	14.84	12.04	614.10	-0.57	16.74	Yes	
MWM-2	6/3/2022	626.14	628.94	613.14	597.36	NP	0.00	13.76	10.96	615.18	1.08	17.82	Yes	
MWM-2D	10/3/2016	626.11	629.06	573.11	568.11	NP	0.00	15.14	12.19	613.92	NA	45.81	Yes	
MWM-2D	6/13/2017	626.11	629.06	573.11	568.11	NP	0.00	12.24	9.29	616.82	2.90	48.71	Yes	
MWM-2D	10/3/2017	626.11	629.06	573.11	568.11	NP	0.00	12.84	9.89	616.22	-0.60	48.11	Yes	
MWM-2D	6/18/2018	626.11	629.06	573.11	568.11	NP	0.00	14.60	11.65	614.46	-1.76	46.35	Yes	

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Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWM-2D	10/8/2018	626.11	629.06	573.11	568.11	NP	0.00	15.57	12.62	613.49	-0.97	45.38	Yes	
MWM-2D	10/8/2018	626.11	629.06	573.11	568.11	NP	0.00	14.03	11.08	615.03	1.54	46.92	Yes	
MWM-2D	10/2/2019	626.11	629.06	573.11	568.11	NP	0.00	15.08	12.13	613.98	-1.05	45.87	Yes	
MWM-2D	5/26/2020	626.11	629.06	573.11	568.11	NP	0.00	14.27	11.32	614.79	0.81	46.68	Yes	
MWM-2D	10/5/2020	626.11	629.06	573.11	568.11	NP	0.00	15.82	12.87	613.24	-1.55	45.13	Yes	
MWM-2D	5/24/2021	626.11	629.06	573.11	568.11	NP	0.00	15.11	12.16	613.95	0.71	45.84	Yes	
MWM-2D	6/1/2022	626.11	629.06	573.11	568.11	NP	0.00	14.36	11.41	614.70	0.75	46.59	Yes	
MWM-2D	11/1/2022	626.11	629.06	573.11	568.11	NP	0.00	16.91	13.96	612.15	-2.55	44.04	Yes	
MWM-3	10/23/2003	627.18	629.68	612.18	597.18	16.45	12.62	29.07	16.85	610.33	NA	16.05	No	
MWM-3	1/20/2004	627.18	629.68	612.18	597.18	17.30	11.51	28.81	17.44	609.74	-0.59	15.20	No	
MWM-3	4/19/2004	627.18	629.68	612.18	597.18	15.18	13.80	28.98	15.85	611.33	1.59	17.32	No	
MWM-3	7/27/2004	627.18	629.68	612.18	597.18	14.72	14.37	29.09	15.52	611.66	0.33	17.78	No	
MWM-3	11/15/2004	627.18	629.68	612.18	597.18	13.44	15.95	29.39	14.61	612.57	0.92	19.06	Yes	
MWM-3	4/18/2005	627.18	629.68	612.18	597.18	13.37	16.13	29.50	14.58	612.60	0.03	19.13	Yes	
MWM-3	9/9/2005	627.18	629.68	612.18	597.18	15.38	13.86	29.24	16.07	611.11	-1.49	17.12	No	
MWM-3	10/11/2005	627.18	629.68	612.18	597.18	12.96	16.42	29.38	14.23	612.95	1.83	19.54	Yes	
MWM-3	5/23/2006	627.18	629.68	612.18	597.18	12.20	17.63	29.83	13.75	613.43	0.48	20.30	Yes	
MWM-3	10/16/2006	627.18	629.68	612.18	597.18	15.60	13.60	29.20	16.23	610.95	-2.47	16.90	No	
MWM-3	4/23/2007	627.18	629.68	612.18	597.18	14.61	14.67	29.28	15.48	611.70	0.74	17.89	No	
MWM-3	9/25/2007	627.18	629.68	612.18	597.18	15.60	13.40	29.00	16.18	611.00	-0.70	16.90	No	
MWM-3	5/1/2008	627.18	629.68	612.18	597.18	12.16	17.53	29.69	13.69	613.49	2.49	20.34	Yes	
MWM-3	8/31/2011	627.18	629.68	612.18	597.18	12.51	17.02	29.53	13.92	613.26	-0.23	19.99	Yes	
MWM-3	10/21/2011	627.18	629.68	612.18	597.18	15.30	10.30	25.60	15.17	612.01	-1.25	17.20	No	
MWM-3	10/27/2011	627.18	629.68	612.18	597.18	14.90	13.30	28.20	15.46	611.72	-0.29	17.60	No	
MWM-3	11/3/2011	627.18	629.68	612.18	597.18	15.11	13.12	28.23	15.62	611.56	-0.17	17.39	No	
MWM-3	11/9/2011	627.18	629.68	612.18	597.18	15.07	13.38	28.45	15.64	611.54	-0.02	17.43	No	
MWM-3	11/10/2011	627.18	629.68	612.18	597.18	15.34	13.11	28.45	15.85	611.33	-0.21	17.16	No	Before EFR
MWM-3	11/10/2011	627.18	629.68	612.18	597.18	20.62	0.07	20.69	18.14	609.04	-2.28	11.88	No	After EFR
MWM-3	11/13/2011	627.18	629.68	612.18	597.18	15.12	12.91	28.03	15.59	611.59	2.55	17.38	No	EFR Check
MWM-3	11/17/2011	627.18	629.68	612.18	597.18	15.32	13.04	28.36	15.82	611.36	-0.23	17.18	No	
MWM-3	11/22/2011	627.18	629.68	612.18	597.18	15.36	13.12	28.48	15.87	611.31	-0.06	17.14	No	
MWM-3	11/29/2011	627.18	629.68	612.18	597.18	15.42	13.10	28.52	15.93	611.25	-0.06	17.08	No	Reading before system start up
MWM-3	1/4/2012	627.18	629.68	612.18	597.18	16.13	12.27	28.40	16.45	610.73	-0.52	16.37	No	
MWM-3	2/16/2012	627.18	629.68	612.18	597.18	16.77	10.58	27.35	16.70	610.48	-0.25	15.73	No	
MWM-3	3/13/2012	627.18	629.68	612.18	597.18	16.68	11.58	28.26	16.84	610.34	-0.14	15.82	No	
MWM-3	4/16/2012	627.18	629.68	612.18	597.18	15.28	12.90	28.18	15.74	611.44	1.10	17.22	No	
MWM-3	6/11/2012	627.18	629.68	612.18	597.18	12.58	16.22	28.80	13.81	613.37	1.94	19.92	Yes	Reading before install of well pumps for Barge system expansion to C. Reiss property.
MWM-3	6/21/2012	627.18	629.68	612.18	597.18	14.30	1.70	16.00	12.19	614.99	1.62	18.20	Yes	Connected to System
MWM-3	6/28/2012	627.18	629.68	612.18	597.18	15.22	0.16	15.38	12.76	614.42	-0.57	17.28	Yes	Connected to System
MWM-3	12/17/2012	627.18	629.68	612.18	597.18	17.21	7.27	24.48	16.38	610.80	-3.62	15.29	No	System down for winter; interface probe could not bypass pump to gauge DTW.
MWM-3	3/25/2013	627.18	629.68	612.18	597.18	18.22	6.13	24.35	17.13	610.05	-0.75	14.28	No	Probe hit pump at 24.35' still indicated LNAPL
MWM-3	5/5/2013	627.18	629.68	612.18	597.18	15.12	9.53	24.65	14.81	612.37	2.32	17.38	Yes	Probe hit pump at 24.65' still indicated LNAPL

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWM-3	5/22/2014	627.18	629.68	612.18	597.18	15.21	0.16	15.37	12.75	614.43	2.06	17.29	Yes	
MWM-3	10/31/2014	627.18	629.68	612.18	597.18	17.25	0.13	17.38	14.78	612.40	-2.03	15.25	Yes	
MWM-3	3/17/2015	627.18	629.68	612.18	597.18	16.59	7.61	24.20	15.84	611.34	-1.06	15.91	No	
MWM-3	5/6/2015	627.18	629.68	612.18	597.18	18.05	0.12	18.17	15.58	611.60	0.26	14.45	No	
MWM-3	6/25/2015	627.18	629.68	612.18	597.18	17.30	0.13	17.43	14.83	612.35	0.75	15.20	Yes	
MWM-3	7/13/2015	627.18	629.68	612.18	597.18	17.20	0.12	17.32	14.73	612.45	0.10	15.30	Yes	
MWM-3	10/1/2015	627.18	629.68	612.18	597.18	14.80	0.12	14.92	12.33	614.85	2.40	17.70	Yes	
MWM-3	10/5/2015	627.18	629.68	612.18	597.18	16.88	0.07	16.95	14.40	612.78	-2.07	15.62	Yes	
MWM-3	4/21/2016	627.18	629.68	612.18	597.18	11.75	10.92	22.67	11.76	615.42	2.64	20.75	Yes	
MWM-3	5/2/2017	627.18	629.68	612.18	597.18	12.81	13.06	25.87	13.31	613.87	-1.55	19.69	Yes	
MWM-3	5/31/2017	627.18	629.68	612.18	597.18	15.41	0.18	15.59	12.95	614.23	0.36	17.09	Yes	
MWM-3	6/14/2017	627.18	629.68	612.18	597.18	15.37	0.15	15.52	12.90	614.28	0.05	17.13	Yes	
MWM-3	06/29/17	627.18	629.68	612.18	597.18	15.86	0.10	15.96	13.38	613.80	-0.48	16.64	Yes	
MWM-3	7/12/2017	627.18	629.68	612.18	597.18	15.46	0.15	15.61	12.99	614.19	0.39	17.04	Yes	
MWM-3	07/19/17	627.18	629.68	612.18	597.18	15.45	0.14	15.59	12.98	614.20	0.01	17.05	Yes	
MWM-3	7/26/2017	627.18	629.68	612.18	597.18	15.63	0.24	15.87	13.19	613.99	-0.20	16.87	Yes	
MWM-3	07/27/17	627.18	629.68	612.18	597.18	15.75	0.17	15.92	13.29	613.89	-0.10	16.75	Yes	
MWM-3	8/4/2017	627.18	629.68	612.18	597.18	15.88	0.19	16.07	13.42	613.76	-0.13	16.62	Yes	
MWM-3	08/08/17	627.18	629.68	612.18	597.18	15.99	0.15	16.14	13.52	613.66	-0.10	16.51	Yes	
MWM-3	8/15/2017	627.18	629.68	612.18	597.18	15.43	0.16	15.59	12.97	614.21	0.56	17.07	Yes	
MWM-3	08/22/17	627.18	629.68	612.18	597.18	15.16	0.18	15.34	12.70	614.48	0.27	17.34	Yes	
MWM-3	8/30/2017	627.18	629.68	612.18	597.18	14.35	0.14	14.49	11.88	615.30	0.82	18.15	Yes	
MWM-3	09/07/17	627.18	629.68	612.18	597.18	14.52	0.18	14.70	12.06	615.12	-0.18	17.98	Yes	
MWM-3	9/14/2017	627.18	629.68	612.18	597.18	15.09	-0.07	15.02	12.57	614.66	-0.46	17.48	Yes	
MWM-3	9/27/2017	627.18	629.68	612.18	597.18	15.06	0.14	15.20	12.59	614.59	-0.07	17.44	Yes	
MWM-3	10/12/2017	627.18	629.68	612.18	597.18	14.22	0.11	14.33	11.75	615.43	0.85	18.28	Yes	
MWM-3	10/26/17	627.18	629.68	612.18	597.18	14.55	0.13	14.68	12.08	615.10	-0.33	17.95	Yes	
MWM-3	05/14/18	627.18	629.68	612.18	597.18	NP	0.00	14.11	11.61	615.57	0.47	18.39	Yes	
MWM-3	05/15/18	627.18	629.68	612.18	597.18	17.06	0.14	17.20	14.59	612.59	-2.98	15.44	Yes	
MWM-3	05/23/18	627.18	629.68	612.18	597.18	17.40	0.30	17.70	14.97	612.21	-0.38	15.10	Yes	
MWM-3	05/24/18	627.18	629.68	612.18	597.18	17.25	0.15	17.40	14.78	612.40	0.18	15.25	Yes	
MWM-3	05/30/18	627.18	629.68	612.18	597.18	NP	0.00	16.81	14.31	612.87	0.47	15.69	Yes	
MWM-3	06/08/18	627.18	629.68	612.18	597.18	16.44	0.02	16.46	13.94	613.24	0.37	16.06	Yes	
MWM-3	06/12/18	627.18	629.68	612.18	597.18	16.47	0.18	16.65	14.01	613.17	-0.07	16.03	Yes	
MWM-3	06/19/18	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	06/28/18	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	07/03/18	627.18	629.68	612.18	597.18	15.85	0.15	16.00	13.38	613.80	0.63	16.65	Yes	
MWM-3	07/10/18	627.18	629.68	612.18	597.18	16.20	0.15	16.35	13.73	613.45	-0.35	16.30	Yes	
MWM-3	07/25/18	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	08/08/18	627.18	629.68	612.18	597.18	17.39		17.65		612.03		14.85	No	
MWM-3	08/16/18	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	09/04/18	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	09/17/18	627.18	629.68	612.18	597.18	17.47	0.17	17.64		612.17		15.03	No	
MWM-3	05/07/19	627.18	629.68	612.18	597.18	16.75	2.33	19.08	14.79	612.39	0.22	15.75	Yes	
MWM-3	05/14/19	627.18	629.68	612.18	597.18	16.06	3.49	19.55	14.36	612.82	0.42	16.44	Yes	
MWM-3	05/22/19	627.18	629.68	612.18	597.18	15.67	0.91	16.58	13.38	613.80	0.98	16.83	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWM-3	05/28/19	627.18	629.68	612.18	597.18	13.85	3.84	17.69	12.23	614.95	1.15	18.65	Yes	System Down, Tank Full
MWM-3	06/07/19	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								System Up and Running, Tank Pumped Out
MWM-3	06/13/19	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	06/24/19	627.18	629.68	612.18	597.18	15.48	1.01	16.49	13.21	613.97	-0.98	17.02	Yes	
MWM-3	07/03/19	627.18	629.68	612.18	597.18	15.40	0.15	15.55	12.93	614.25	0.28	17.10	Yes	
MWM-3	08/28/19	627.18	629.68	612.18	597.18	17.55	0.14	17.69	15.08	612.10	-2.15	14.95	No	
MWM-3	09/12/19	627.18	629.68	612.18	597.18	17.20	0.17	17.37	14.74	612.44	0.34	15.30	Yes	
MWM-3	09/25/19	627.18	629.68	612.18	597.18	16.69	0.14	16.83	14.22	612.96	0.52	15.81	Yes	
MWM-3	10/04/19	627.18	629.68	612.18	597.18	16.11	0.17	16.28	13.65	613.53	0.57	16.39	Yes	
MWM-3	10/07/19	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								
MWM-3	10/21/19	627.18	629.68	612.18	597.18	PUMP OBSTRUCTION								System went down 10/18 (powerline down), restarted 10/21
MWM-3	10/29/19	627.18	629.68	612.18	597.18	15.56	0.12	15.68	13.09	614.09	0.56	16.94	Yes	
MWM-3	03/31/20	627.18	629.68	612.18	597.18	10.96	11.56	22.52	11.12	616.06	1.97	21.54	Yes	
MWM-3	04/21/20	627.18	629.68	612.18	597.18	11.45	11.15	22.60	11.51	615.67	-0.40	21.05	Yes	
MWM-3	04/22/20	627.18	629.68	612.18	597.18	15.18	0.06	15.24	12.69	614.49	-1.18	17.32	Yes	
MWM-3	04/30/20	627.18	629.68	612.18	597.18	14.91	0.12	15.03	12.44	614.74	0.26	17.59	Yes	
MWM-3	05/11/20	627.18	629.68	612.18	597.18	15.21	0.06	15.27	12.72	614.46	-0.29	17.29	Yes	
MWM-3	05/20/20	627.18	629.68	612.18	597.18	15.50	0.44	15.94	13.10	614.08	-0.38	17.00	Yes	
MWM-3	05/26/20	627.18	629.68	612.18	597.18	15.81	0.03	15.84	13.32	613.86	-0.22	16.69	Yes	
MWM-3	05/28/20	627.18	629.68	612.18	597.18	15.38	0.08	15.46	12.90	614.28	0.42	17.12	Yes	
MWM-3	06/02/20	627.18	629.68	612.18	597.18	15.62	0.03	15.65	13.13	614.05	-0.23	16.88	Yes	
MWM-3	06/11/20	627.18	629.68	612.18	597.18	15.94	0.71	16.65	13.60	613.58	-0.48	16.56	Yes	
MWM-3	06/22/20	627.18	629.68	612.18	597.18	16.55	0.29	16.84	14.12	613.06	-0.51	15.95	Yes	
MWM-3	07/06/20	627.18	629.68	612.18	597.18	16.91	0.58	17.49	14.54	612.64	-0.43	15.59	Yes	
MWM-3	07/20/20	627.18	629.68	612.18	597.18	16.66	0.07	16.73	14.18	613.00	0.37	15.84	Yes	
MWM-3	07/28/20	627.18	629.68	612.18	597.18	16.47	0.11	16.58	14.00	613.18	0.18	16.03	Yes	
MWM-3	08/12/20	627.18	629.68	612.18	597.18	16.53	0.09	16.62	14.05	613.13	-0.06	15.97	Yes	
MWM-3	08/25/20	627.18	629.68	612.18	597.18	16.81	0.42	17.23	14.41	612.77	-0.36	15.69	Yes	
MWM-3	09/08/20	627.18	629.68	612.18	597.18	17.16	0.06	17.22	14.67	612.51	-0.27	15.34	Yes	
MWM-3	09/23/20	627.18	629.68	612.18	597.18	17.53	0.07	17.60	15.05	612.13	-0.37	14.97	No	
MWM-3	10/07/20	627.18	629.68	612.18	597.18	17.75	0.09	17.84	15.27	611.91	-0.22	14.75	No	
MWM-3	10/20/20	627.18	629.68	612.18	597.18	17.65	0.16	17.81	15.19	611.99	0.08	14.85	No	
MWM-3	04/28/21	627.18	629.68	612.18	597.18	13.33	7.89	21.22	12.64	614.54	2.54	19.17	Yes	
MWM-3	04/29/21	627.18	629.68	612.18	597.18	16.13	0.09	16.22	13.65	613.53	-1.01	16.37	Yes	
MWM-3	05/06/21	627.18	629.68	612.18	597.18	15.53	PUMP OBSTRUCTION							Unable to gauge DTW
MWM-3	05/13/21	627.18	629.68	612.18	597.18	16.74	0.11	16.85	14.27	612.91	-0.61	15.76	Yes	
MWM-3	05/19/21	627.18	629.68	612.18	597.18	16.85	0.08	16.93	14.37	612.81	-0.10	15.65	Yes	
MWM-3	05/24/21	627.18	629.68	612.18	597.18	UNABLE TO GAUGE								Unable to gauge DTW
MWM-3	05/28/21	627.18	629.68	612.18	597.18	UNABLE TO GAUGE								Unable to gauge DTW
MWM-3	6/8/2021	627.18	629.68	612.18	597.18	16.98	0.10	17.08	14.50	612.68	-0.13	15.52	Yes	
MWM-3	6/22/2021	627.18	629.68	612.18	597.18	16.35	0.29	16.64	13.92	613.26	0.59	16.15	Yes	
MWM-3	7/1/2021	627.18	629.68	612.18	597.18	16.11	0.14	16.25	13.64	613.54	0.27	16.39	Yes	
MWM-3	7/12/2021	627.18	629.68	612.18	597.18	17.59	0.29	17.88	15.16	612.02	-1.51	14.91	No	
MWM-3	7/27/2021	627.18	629.68	612.18	597.18	17.97	0.15	18.12	15.50	611.68	-0.35	14.53	No	
MWM-3	8/3/2021	627.18	629.68	612.18	597.18	UNABLE TO GAUGE								Unable to gauge DTW
MWM-3	8/10/2021	627.18	629.68	612.18	597.18	18.14	0.25	18.39	15.70	611.48	-0.19	14.36	No	
MWM-3	8/24/2021	627.18	629.68	612.18	597.18	18.55	0.20	18.75	16.10	611.08	-0.40	13.95	No	
MWM-3	8/31/2021	627.18	629.68	612.18	597.18	18.35	0.14	18.49	15.88	611.30	0.21	14.15	No	

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MWM-3	9/14/2021	627.18	629.68	612.18	597.18	18.60	0.09	18.69	16.12	611.06	-0.24	13.90	No	
MWM-3	9/28/2021	627.18	629.68	612.18	597.18	18.34	0.02	18.36	15.84	611.34	0.28	14.16	No	
MWM-3	10/5/2021	627.18	629.68	612.18	597.18	18.22	0.13	18.35	15.75	611.43	0.09	14.28	No	
MWM-3	10/19/2021	627.18	629.68	612.18	597.18	18.29	0.04	18.33	15.80	611.38	-0.05	14.21	No	
MWM-3	10/28/2021	627.18	629.68	612.18	597.18	18.41	0.04	18.45	15.92	611.26	-0.12	14.09	No	
MWM-3	5/2/2022	627.18	629.68	612.18	597.18	17.02	1.08	18.10	14.77	612.41	1.15	15.48	Yes	System startup
MWM-3	5/3/2022	627.18	629.68	612.18	597.18	16.59	0.12	16.71	14.12	613.06	0.65	15.91	Yes	
MWM-3	6/2/2022	627.18	629.68	612.18	597.18	12.86								
MWM-3	6/10/2022	627.18	629.68	612.18	597.18	15.28	1.25	16.53	13.07	614.11	1.05	17.22	Yes	
MWM-3	6/16/2022	627.18	629.68	612.18	597.18	16.39	0.21	16.60	13.94	613.24	-0.87	16.11	Yes	
MWM-3	6/23/2022	627.18	629.68	612.18	597.18	16.63	0.08	16.71	14.15	613.03	-0.21	15.87	Yes	
MWM-3	6/30/2022	627.18	629.68	612.18	597.18	16.78	0.07	16.85	14.30	612.88	-0.15	15.72	Yes	
MWM-3	7/12/2022	627.18	629.68	612.18	597.18	17.25	0.07	17.32	14.77	612.41	-0.47	15.25	Yes	
MWM-3	7/25/2022	627.18	629.68	612.18	597.18	17.19	0.26	17.45	14.75	612.43	0.02	15.31	Yes	
MWM-3	8/15/2022	627.18	629.68	612.18	597.18	18.10	0.15	18.25	15.63	611.55	-0.88	14.40	No	
MWM-3	8/26/2022	627.18	629.68	612.18	597.18	18.10	0.15	18.25	15.63	611.55	0.00	14.40	No	
MWM-3	9/8/2022	627.18	629.68	612.18	597.18	18.35	0.18	18.53	15.89	611.29	-0.26	14.15	No	
MWM-3	9/19/2022	627.18	629.68	612.18	597.18	18.18	0.20	18.38	15.73	611.45	0.17	14.32	No	
MWM-3	10/5/2022	627.18	629.68	612.18	597.18	18.30	0.34	18.64	15.88	611.30	-0.15	14.20	No	
MWM-3	10/25/2022	627.18	629.68	612.18	597.18	18.70	0.11	18.81	16.23	610.95	-0.35	13.80	No	
MWM-6	10/23/2003	626.20	628.84	611.20	596.20	17.66	0.22	17.88	15.07	611.13	NA	14.98	No	
MWM-6	1/20/2004	626.20	628.84	611.20	596.20	18.07	0.93	19.00	15.66	610.54	-0.58	14.57	No	
MWM-6	4/19/2004	626.20	628.84	611.20	596.20	16.96	1.13	18.09	14.60	611.60	1.06	15.68	Yes	
MWM-6	7/27/2004	626.20	628.84	611.20	596.20	16.36	1.13	17.49	14.00	612.20	0.60	16.28	Yes	
MWM-6	11/15/2004	626.20	628.84	611.20	596.20	16.51	0.10	16.61	13.89	612.31	0.10	16.13	Yes	
MWM-6	4/18/2005	626.20	628.84	611.20	596.20	15.69	0.58	16.27	13.19	613.01	0.70	16.95	Yes	
MWM-6	10/11/2005	626.20	628.84	611.20	596.20	15.20	1.42	16.62	12.91	613.29	0.28	17.44	Yes	
MWM-6	5/23/2006	626.20	628.84	611.20	596.20	14.70	1.01	15.71	12.31	613.89	0.60	17.94	Yes	
MWM-6	10/16/2006	626.20	628.84	611.20	596.20	16.72	1.01	17.73	14.33	611.87	-2.02	15.92	Yes	
MWM-6	4/23/2007	626.20	628.84	611.20	596.20	16.57	0.92	17.49	14.16	612.04	0.17	16.07	Yes	
MWM-6	9/25/2007	626.20	628.84	611.20	596.20	17.05	0.90	17.95	14.63	611.57	-0.48	15.59	Yes	
MWM-6	5/1/2008	626.20	628.84	611.20	596.20	14.91	0.91	15.82	12.49	613.71	2.14	17.73	Yes	
MWM-6	10/20/2008	626.20	628.84	611.20	596.20	14.28	0.91	15.19	11.86	614.34	0.63	18.36	Yes	
MWM-6	8/31/2011	626.20	628.84	611.20	596.20	14.40	0.83	15.23	11.96	614.24	-0.10	18.24	Yes	
MWM-6	10/11/2011	626.20	628.84	611.20	596.20	15.78	0.50	16.28	13.26	612.94	-1.30	16.86	Yes	
MWM-6	1/4/2012	626.20	628.84	611.20	596.20	17.00	0.52	17.52	14.49	611.71	-1.22	15.64	Yes	
MWM-6	4/12/2012	626.20	628.84	611.20	596.20	17.17	0.48	17.65	14.65	611.55	-0.16	15.47	Yes	Spill Buddy Before Reading
MWM-6	4/16/2012	626.20	628.84	611.20	596.20	16.86	0.02	16.88	14.22	611.98	0.42	15.78	Yes	
MWM-6	6/28/2012	626.20	628.84	611.20	596.20	13.80	0.04	13.84	11.17	615.03	3.06	18.84	Yes	
MWM-6	9/30/2012	626.20	628.84	611.20	596.20	16.89	0.02	16.91	14.25	611.95	-3.09	15.75	Yes	
MWM-6	12/17/2012	626.20	628.84	611.20	596.20	17.38	0.02	17.40	14.74	611.46	-0.49	15.26	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWM-6	3/25/2013	626.20	628.84	611.20	596.20	18.21	0.04	18.25	15.58	610.62	-0.83	14.43	No	
MWM-6	5/5/2013	626.20	628.84	611.20	596.20	16.61	0.02	16.63	13.97	612.23	1.60	16.03	Yes	
MWM-6	10/3/2013	626.20	628.84	611.20	596.20	NP	0.00	16.87	14.23	611.97	-0.26	15.77	Yes	
MWM-6	5/21/2014	626.20	628.84	611.20	596.20	NP	0.00	14.08	11.44	614.76	2.79	18.56	Yes	
MWM-6	7/30/2014	626.20	628.84	611.20	596.20	15.15	0.01	15.16	12.51	613.69	-1.07	17.49	Yes	
MWM-6	10/31/2014	626.20	628.84	611.20	596.20	NP	0.00	15.21	12.57	613.63	-0.06	17.43	Yes	
MWM-6	4/15/2015	626.20	628.84	611.20	596.20	NP	0.00	16.85	14.21	611.99	-1.64	15.79	Yes	
MWM-6	4/22/2015	626.20	628.84	611.20	596.20	NP	0.00	16.46	13.82	612.38	0.39	16.18	Yes	
MWM-6	4/29/2015	626.20	628.84	611.20	596.20	NP	0.00	16.35	13.71	612.49	0.11	16.29	Yes	
MWM-6	5/6/2015	626.20	628.84	611.20	596.20	NP	0.00	16.33	13.69	612.51	0.02	16.31	Yes	
MWM-6	5/12/2015	626.20	628.84	611.20	596.20	NP	0.00	16.02	13.38	612.82	0.31	16.62	Yes	
MWM-6	6/9/2015	626.20	628.84	611.20	596.20	NP	0.00	15.21	12.57	613.63	0.81	17.43	Yes	
MWM-6	10/5/2015	626.20	628.84	611.20	596.20	15.20	0.10	15.30	12.58	613.62	-0.01	17.44	Yes	
MWM-6	5/18/2016	626.20	628.84	611.20	596.20	13.69	0.19	13.88	11.10	615.10	1.49	18.95	Yes	
MWM-6	5/23/2016	626.20	628.84	611.20	596.20	13.85	0.13	13.98	11.24	614.96	-0.15	18.79	Yes	
MWM-6	5/31/2016	626.20	628.84	611.20	596.20	13.74	0.16	13.90	11.14	615.06	0.10	18.90	Yes	
MWM-6	6/14/2016	626.20	628.84	611.20	596.20	13.67	0.13	13.80	11.06	615.14	0.08	18.97	Yes	
MWM-6	6/21/2016	626.20	628.84	611.20	596.20	13.35	0.16	13.51	10.75	615.45	0.31	19.29	Yes	
MWM-6	7/15/2016	626.20	628.84	611.20	596.20	13.68	0.12	13.80	11.07	615.13	-0.32	18.96	Yes	
MWM-6	7/25/2016	626.20	628.84	611.20	596.20	14.08	0.13	14.21	11.47	614.73	-0.40	18.56	Yes	
MWM-6	8/26/2016	626.20	628.84	611.20	596.20	14.90	0.20	15.10	12.31	613.89	-0.84	17.74	Yes	
MWM-6	9/2/2016	626.20	628.84	611.20	596.20	14.96	0.23	15.19	12.38	613.82	-0.07	17.68	Yes	
MWM-6	10/3/2016	626.20	628.84	611.20	596.20	15.01	0.30	15.31	12.44	613.76	-0.07	17.63	Yes	
MWM-6	10/6/2016	626.20	628.84	611.20	596.20	15.10	0.30	15.40	12.53	613.67	-0.09	17.54	Yes	
MWM-6	10/13/2016	626.20	628.84	611.20	596.20	15.17	0.33	15.50	12.61	613.59	-0.08	17.47	Yes	
MWM-6	5/2/2017	626.20	628.84	611.20	596.20	13.92	0.53	14.45	11.41	614.79	1.20	18.72	Yes	
MWM-6	5/8/2017	626.20	628.84	611.20	596.20	13.95	0.55	14.50	11.44	614.76	-0.03	18.69	Yes	
MWM-6	5/18/2017	626.20	628.84	611.20	596.20	13.66	0.28	13.94	11.09	615.11	0.36	18.98	Yes	
MWM-6	5/25/2017	626.20	628.84	611.20	596.20	12.90	0.30	13.20	10.33	615.87	0.76	19.74	Yes	
MWM-6	5/31/2017	626.20	628.84	611.20	596.20	12.86	0.29	13.15	10.29	615.91	0.04	19.78	Yes	
MWM-6	9/7/2017	626.20	628.84	611.20	596.20	12.75	0.35	13.10	10.20	616.00	0.10	19.89	Yes	
MWM-6	9/14/2017	626.20	628.84	611.20	596.20	13.21	0.28	13.49	10.64	615.56	-0.44	19.43	Yes	
MWM-6	5/14/2018	626.20	628.84	611.20	596.20	15.32	0.58	15.90	12.82	613.38	-2.18	17.32	Yes	
MWM-6	5/15/2018	626.20	628.84	611.20	596.20	15.75	0.20	15.95	13.16	613.04	-0.34	16.89	Yes	
MWM-6	5/23/2018	626.20	628.84	611.20	596.20	15.63	0.20	15.83	13.04	613.16	0.12	17.01	Yes	
MWM-6	8/8/2018	626.20	628.84	611.20	596.20	15.50	0.25	15.75	12.92	613.28	0.12	17.14	Yes	
MWM-6	10/29/2018	626.20	628.84	611.20	596.20	14.45	0.30	14.75	11.88	614.32	1.04	18.19	Yes	
MWM-6	5/2/2019	626.20	628.84	611.20	596.20	14.50	0.21	14.71	11.91	614.29	-0.03	18.14	Yes	
MWM-6	5/14/2019	626.20	628.84	611.20	596.20	14.05	0.13	14.18	11.44	614.76	0.47	18.59	Yes	
MWM-6	5/28/2019	626.20	628.84	611.20	596.20	13.24	0.04	13.28	10.61	615.59	0.83	19.40	Yes	
MWM-6	6/24/2019	626.20	628.84	611.20	596.20	13.98	0.05	14.03	11.35	614.85	-0.74	18.66	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWM-6	8/28/2019	626.20	628.84	611.20	596.20	15.52	0.13	15.65	12.91	613.29	-1.56	17.12	Yes	
MWM-6	9/12/2019	626.20	628.84	611.20	596.20	15.31	0.11	15.42	12.70	613.50	0.21	17.33	Yes	
MWM-6	9/25/2019	626.20	628.84	611.20	596.20	14.74	0.13	14.87	12.13	614.07	0.57	17.90	Yes	
MWM-6	10/4/2019	626.20	628.84	611.20	596.20	14.38	0.11	14.49	11.77	614.43	0.36	18.26	Yes	
MWM-6	10/8/2019	626.20	628.84	611.20	596.20	13.94	0.13	14.07	11.33	614.87	0.44	18.70	Yes	
MWM-6	10/29/2019	626.20	628.84	611.20	596.20	13.60	0.12	13.72	10.99	615.21	0.34	19.04	Yes	
MWM-6	3/31/2020	626.20	628.84	611.20	596.20	12.84	0.09	12.93	10.22	615.98	0.77	19.80	Yes	
MWM-6	4/21/2020	626.20	628.84	611.20	596.20	13.06	0.09	13.15	10.44	615.76	-0.22	19.58	Yes	
MWM-6	4/30/2020	626.20	628.84	611.20	596.20	13.09	0.09	13.18	10.47	615.73	-0.03	19.55	Yes	
MWM-6	5/11/2020	626.20	628.84	611.20	596.20	13.26	0.09	13.35	10.64	615.56	-0.17	19.38	Yes	
MWM-6	5/20/2020	626.20	628.84	611.20	596.20	13.62	0.09	13.71	11.00	615.20	-0.36	19.02	Yes	
MWM-6	5/26/2020	626.20	628.84	611.20	596.20	13.83	0.07	13.90	11.21	614.99	-0.21	18.81	Yes	
MWM-6	6/11/2020	626.20	628.84	611.20	596.20	14.10	0.09	14.19	11.48	614.72	-0.27	18.54	Yes	
MWM-6	6/22/2020	626.20	628.84	611.20	596.20	14.54	0.09	14.63	11.92	614.28	-0.44	18.10	Yes	
MWM-6	7/6/2020	626.20	628.84	611.20	596.20	14.98	0.08	15.06	12.36	613.84	-0.44	17.66	Yes	
MWM-6	7/20/2020	626.20	628.84	611.20	596.20	14.65	0.09	14.74	12.03	614.17	0.33	17.99	Yes	
MWM-6	8/12/2020	626.20	628.84	611.20	596.20	14.50	0.05	14.55	11.87	614.33	0.16	18.14	Yes	
MWM-6	8/25/2020	626.20	628.84	611.20	596.20	14.80	0.09	14.89	12.18	614.02	-0.31	17.84	Yes	
MWM-6	9/8/2020	626.20	628.84	611.20	596.20	15.01	0.09	15.10	12.39	613.81	-0.21	17.63	Yes	
MWM-6	9/23/2020	626.20	628.84	611.20	596.20	15.38	0.10	15.48	12.76	613.44	-0.37	17.26	Yes	
MWM-6	4/28/2021	626.20	628.84	611.20	596.20	14.59	0.11	14.70	11.98	614.22	0.79	18.05	Yes	
MWM-6	5/6/2021	626.20	628.84	611.20	596.20	14.80	0.12	14.92	12.19	614.01	-0.21	17.84	Yes	
MWM-6	5/13/2021	626.20	628.84	611.20	596.20	15.00	0.10	15.10	12.38	613.82	-0.20	17.64	Yes	
MWM-6	5/19/2021	626.20	628.84	611.20	596.20	15.15	0.12	15.27	12.54	613.66	-0.15	17.49	Yes	
MWM-6	5/24/2021	626.20	628.84	611.20	596.20	14.73	0.12	14.85	12.12	614.08	0.42	17.91	Yes	
MWM-6	5/28/2021	626.20	628.84	611.20	596.20	14.72	0.13	14.85	12.11	614.09	0.01	17.92	Yes	
MWM-6	6/8/2021	626.20	628.84	611.20	596.20	15.02	0.11	15.13	12.41	613.79	-0.30	17.62	Yes	
MWM-6	6/22/2021	626.20	628.84	611.20	596.20	15.43	0.10	15.53	12.81	613.39	-0.41	17.21	Yes	
MWM-6	7/1/2021	626.20	628.84	611.20	596.20	15.22	0.10	15.32	12.60	613.60	0.21	17.42	Yes	
MWM-6	7/12/2021	626.20	628.84	611.20	596.20	15.60	0.12	15.72	12.99	613.21	-0.38	17.04	Yes	
MWM-6	7/27/2021	626.20	628.84	611.20	596.20	15.92	0.12	16.04	13.31	612.89	-0.32	16.72	Yes	
MWM-6	8/3/2021	626.20	628.84	611.20	596.20	16.03	0.11	16.14	13.42	612.78	-0.11	16.61	Yes	
MWM-6	8/10/2021	626.20	628.84	611.20	596.20	16.08	0.12	16.20	13.47	612.73	-0.05	16.56	Yes	
MWM-6	8/24/2021	626.20	628.84	611.20	596.20	16.46	0.10	16.56	13.84	612.36	-0.38	16.18	Yes	
MWM-6	8/31/2021	626.20	628.84	611.20	596.20	16.34	0.10	16.44	13.72	612.48	0.12	16.30	Yes	
MWM-6	9/14/2021	626.20	628.84	611.20	596.20	16.48	0.10	16.58	13.86	612.34	-0.14	16.16	Yes	
MWM-6	9/28/2021	626.20	628.84	611.20	596.20	16.28	0.10	16.38	13.66	612.54	0.20	16.36	Yes	
MWM-6	10/19/2021	626.20	628.84	611.20	596.20	16.23	0.10	16.33	13.61	612.59	0.05	16.41	Yes	
MWM-6	10/28/2021	626.20	628.84	611.20	596.20	16.33	0.10	16.43	13.71	612.49	-0.10	16.31	Yes	
MWM-6	5/3/2022	626.20	628.84	611.20	596.20	15.22	0.09	15.31	12.60	613.60	1.11	17.42	Yes	
MWM-6	5/10/2022	626.20	628.84	611.20	596.20	14.88	0.09	14.97	12.26	613.94	0.34	17.76	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWM-6	5/19/2022	626.20	628.84	611.20	596.20	14.21	0.08	14.29	11.59	614.61	0.67	18.43	Yes	
MWM-6	6/1/2022	626.20	628.84	611.20	596.20	13.96	0.10	14.06	11.34	614.86	0.25	18.68	Yes	
MWM-6	6/10/2022	626.20	628.84	611.20	596.20	14.41	0.09	14.50	11.79	614.41	-0.45	18.23	Yes	
MWM-6	6/16/2022	626.20	628.84	611.20	596.20	14.67	0.08	14.75	12.05	614.15	-0.26	17.97	Yes	
MWM-6	6/23/2022	626.20	628.84	611.20	596.20	14.86	0.09	14.95	12.24	613.96	-0.19	17.78	Yes	
MWM-6	6/30/2022	626.20	628.84	611.20	596.20	14.89	0.07	14.96	12.27	613.93	-0.03	17.75	Yes	
MWM-6	7/12/2022	626.20	628.84	611.20	596.20	15.25	0.07	15.32	12.63	613.57	-0.36	17.39	Yes	
MWM-6	7/25/2022	626.20	628.84	611.20	596.20	15.66	0.09	15.75	13.04	613.16	-0.41	16.98	Yes	
MWM-6	8/15/2022	626.20	628.84	611.20	596.20	16.11	0.08	16.19	13.49	612.71	-0.45	16.53	Yes	
MWM-6	8/26/2022	626.20	628.84	611.20	596.20	15.06	0.08	15.14	12.44	613.76	1.05	17.58	Yes	
MWM-6	9/8/2022	626.20	628.84	611.20	596.20	16.29	0.09	16.38	13.67	612.53	-1.23	16.35	Yes	
MWM-6	9/19/2022	626.20	628.84	611.20	596.20	16.13	0.07	16.20	13.51	612.69	0.16	16.51	Yes	
MWM-6	10/5/2022	626.20	628.84	611.20	596.20	16.27	0.08	16.35	13.65	612.55	-0.14	16.37	Yes	
MWM-6	10/25/2022	626.20	628.84	611.20	596.20	16.58	0.09	16.67	13.96	612.24	-0.31	16.06	Yes	
MW-17	09/08/88	630.50	633.00	616.50	606.50	NP	0.00	19.26	16.76	613.74	NA	7.24	No	
MW-17	09/20/88	630.50	633.00	616.50	606.50	NP	0.00	19.74	17.24	613.26	-0.48	6.76	No	
MW-17	04/27/89	630.50	633.00	616.50	606.50	NP	0.00	19.28	16.78	613.72	0.46	7.22	No	
MW-17	05/18/89	630.50	633.00	616.50	606.50	NP	0.00	18.81	16.31	614.19	0.47	7.69	No	
MW-17	06/30/89	630.50	633.00	616.50	606.50	NP	0.00	18.10	15.60	614.90	0.71	8.40	No	
MW-17	07/12/89	630.50	633.00	616.50	606.50	NP	0.00	18.25	15.75	614.75	-0.15	8.25	No	
MW-17	07/26/89	630.50	633.00	616.50	606.50	NP	0.00	18.59	16.09	614.41	-0.34	7.91	No	
MW-17	07/27/89	630.50	633.00	616.50	606.50	NP	0.00	18.64	16.14	614.36	-0.05	7.86	No	
MW-17	09/03/89	630.50	633.00	616.50	606.50	NP	0.00	18.98	16.48	614.02	-0.34	7.52	No	
MW-17	11/28/89	630.50	633.00	616.50	606.50	NP	0.00	19.43	16.93	613.57	-0.45	7.07	No	
MW-17	06/01/90	630.50	633.00	616.50	606.50	NP	0.00	19.41	16.91	613.59	0.02	7.09	No	
MW-17	06/19/90	630.50	633.00	616.50	606.50	NP	0.00	19.28	16.78	613.72	0.13	7.22	No	
MW-17	06/27/90	630.50	633.00	616.50	606.50	NP	0.00	19.30	16.80	613.70	-0.02	7.20	No	
MW-17	07/05/90	630.50	633.00	616.50	606.50	NP	0.00	19.35	16.85	613.65	-0.05	7.15	No	
MW-17	07/17/90	630.50	633.00	616.50	606.50	NP	0.00	19.39	16.89	613.61	-0.04	7.11	No	
MW-17	07/25/90	630.50	633.00	616.50	606.50	NP	0.00	19.46	16.96	613.54	-0.07	7.04	No	
MW-17	08/09/90	630.50	633.00	616.50	606.50	NP	0.00	19.50	17.00	613.50	-0.04	7.00	No	
MW-17	08/27/90	630.50	633.00	616.50	606.50	NP	0.00	19.45	16.95	613.55	0.05	7.05	No	
MW-17	09/06/90	630.50	633.00	616.50	606.50	NP	0.00	19.18	16.68	613.82	0.27	7.32	No	
MW-17	01/04/91	630.50	633.00	616.50	606.50	NP	0.00	18.42	15.92	614.58	0.76	8.08	No	
MW-17	01/30/91	630.50	633.00	616.50	606.50	NP	0.00	18.93	16.43	614.07	-0.51	7.57	No	
MW-17	04/24/91	630.50	633.00	616.50	606.50	NP	0.00	18.95	16.45	614.05	-0.02	7.55	No	
MW-17	07/09/91	630.50	633.00	616.50	606.50	NP	0.00	15.95	13.45	617.05	3.00	10.55	Yes	
MW-17	10/08/91	630.50	633.00	616.50	606.50	NP	0.00	14.76	12.26	618.24	1.19	11.74	Yes	
MW-17	01/07/92	630.50	633.00	616.50	606.50	NP	0.00	15.44	12.94	617.56	-0.68	11.06	Yes	
MW-17	10/14/92	630.50	633.00	616.50	606.50	NP	0.00	15.61	13.11	617.39	-0.17	10.89	Yes	
MW-17	06/25/93	630.50	633.00	616.50	606.50	NP	0.00	11.52	9.02	621.48	4.09	14.98	Yes	
MW-17	10/28/93	630.50	633.00	616.50	606.50	NP	0.00	15.95	13.45	617.05	-4.43	10.55	Yes	
MW-17	01/29/94	630.50	633.00	616.50	606.50	NP	0.00	16.91	14.41	616.09	-0.96	9.59	No	
MW-17	04/27/94	630.50	633.00	616.50	606.50	NP	0.00	15.78	13.28	617.22	1.13	10.72	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MW-17	07/21/94	630.50	633.00	616.50	606.50	NP	0.00	15.58	13.08	617.42	0.20	10.92	Yes	
MW-17	10/25/94	630.50	633.00	616.50	606.50	NP	0.00	16.11	13.61	616.89	-0.53	10.39	Yes	
MW-17	10/28/94	630.50	633.00	616.50	606.50	NP	0.00	15.29	12.79	617.71	0.82	11.21	Yes	
MW-17	02/01/95	630.50	633.00	616.50	606.50	NP	0.00	17.71	15.21	615.29	-2.42	8.79	No	
MW-17	04/04/95	630.50	633.00	616.50	606.50	NP	0.00	17.75	15.25	615.25	-0.04	8.75	No	
MW-17	07/12/95	630.50	633.00	616.50	606.50	NP	0.00	16.69	14.19	616.31	1.06	9.81	No	
MW-17	11/13/95	630.50	633.00	616.50	606.50	NP	0.00	15.17	12.67	617.83	1.52	11.33	Yes	
MW-17	03/13/96	630.50	633.00	616.50	606.50	NP	0.00	17.47	14.97	615.53	-2.30	9.03	No	
MW-17	04/22/96	630.50	633.00	616.50	606.50	NP	0.00	15.30	12.80	617.70	2.17	11.20	Yes	
MW-17	10/08/96	630.50	633.00	616.50	606.50	NP	0.00	14.35	11.85	618.65	0.95	12.15	Yes	
MW-17	04/29/97	630.50	633.00	616.50	606.50	NP	0.00	13.02	10.52	619.98	1.33	13.48	Yes	
MW-17	11/03/98	630.50	633.00	616.50	606.50	NP	0.00	17.69	15.19	615.31	-4.67	8.81	No	
MW-17	03/02/99	630.50	633.00	616.50	606.50	NP	0.00	17.89	15.39	615.11	-0.20	8.61	No	
MW-17	04/26/00	630.50	633.00	616.50	606.50	NP	0.00	16.53	14.03	616.47	1.36	9.97	No	
MW-17	10/10/00	630.50	633.00	616.50	606.50	NP	0.00	12.03	9.53	620.97	4.50	14.47	Yes	
MW-17	04/24/01	630.50	633.00	616.50	606.50	NP	0.00	17.01	14.51	615.99	-4.98	9.49	No	
MW-17	10/23/01	630.50	633.00	616.50	606.50	NP	0.00	17.52	15.02	615.48	-0.51	8.98	No	
MW-17	01/22/02	630.50	633.00	616.50	606.50	NP	0.00	18.26	15.76	614.74	-0.74	8.24	No	
MW-17	02/26/02	630.50	633.00	616.50	606.50	NP	0.00	18.35	15.85	614.65	-0.09	8.15	No	
MW-17	03/20/02	630.50	633.00	616.50	606.50	NP	0.00	18.54	16.04	614.46	-0.19	7.96	No	
MW-17	04/23/02	630.50	633.00	615.50	606.50	NP	0.00	19.95	17.45	613.05	-1.41	6.55	No	
MW-17	05/15/02	630.50	633.00	615.50	606.50	NP	0.00	16.84	14.34	616.16	3.11	9.66	Yes	
MW-17	08/20/02	630.50	633.00	615.50	606.50	NP	0.00	16.78	14.28	616.22	0.06	9.72	Yes	
MW-17	09/30/02	630.50	633.00	615.50	606.50	NP	0.00	16.49	13.99	616.51	0.29	10.01	Yes	
MW-17	11/05/02	630.50	633.00	615.50	606.50	NP	0.00	15.95	13.45	617.05	0.54	10.55	Yes	
MW-17	12/23/02	630.50	633.00	615.50	606.50	NP	0.00	17.39	14.89	615.61	-1.44	9.11	Yes	
MW-17	01/28/03	630.50	633.00	615.50	606.50	NP	0.00	17.79	15.29	615.21	-0.40	8.71	No	
MW-17	02/19/03	630.50	633.00	615.50	606.50	NP	0.00	18.06	15.56	614.94	-0.27	8.44	No	
MW-17	04/17/03	630.50	633.00	615.50	606.50	NP	0.00	18.63	16.13	614.37	-0.57	7.87	No	
MW-17	06/10/03	630.50	633.00	615.50	606.50	NP	0.00	18.02	15.52	614.98	0.61	8.48	No	
MW-17	10/20/03	630.50	633.00	615.50	606.50	NP	0.00	18.57	16.07	614.43	-0.55	7.93	No	
MW-17	12/03/03	630.50	633.00	615.50	606.50	NP	0.00	19.12	16.62	613.88	-0.55	7.38	No	
MW-17	04/19/04	630.70	633.35	615.50	606.50	NP	0.00	19.57	16.92	613.78	-0.10	7.28	No	
MW-17	07/28/04	630.70	633.35	615.50	606.50	NP	0.00	17.74	15.09	615.61	1.83	9.11	Yes	
MW-17	11/16/04	630.70	633.35	615.50	606.50	NP	0.00	16.90	14.25	616.45	0.84	9.95	Yes	
MW-17	04/18/05	630.70	633.35	615.50	606.50	NP	0.00	17.25	14.60	616.10	-0.35	9.60	Yes	
MW-17	10/11/05	630.70	633.35	615.50	606.50	NP	0.00	16.25	13.60	617.10	1.00	10.60	Yes	
MW-17	05/23/06	630.70	633.35	615.50	606.50	NP	0.00	15.79	13.14	617.56	0.46	11.06	Yes	
MW-17	10/16/06	630.70	633.35	615.50	606.50	NP	0.00	17.06	14.41	616.29	-1.27	9.79	Yes	
MW-17	04/23/07	630.70	633.35	615.50	606.50	NP	0.00	18.53	15.88	614.82	-1.47	8.32	No	
MW-17	09/25/07	630.70	633.35	615.50	606.50	NP	0.00	18.39	15.74	614.96	0.14	8.46	No	
MW-17	05/01/08	630.70	633.35	615.50	606.50	NP	0.00	16.64	13.99	616.71	1.75	10.21	Yes	
MW-17	10/20/08	630.70	633.35	615.50	606.50	NP	0.00	14.98	12.33	618.37	1.66	11.87	Yes	
MW-17	04/18/09	630.70	633.35	615.50	606.50	NP	0.00	16.23	13.58	617.12	-1.25	10.62	Yes	
MW-17	08/31/11	630.70	633.35	615.50	606.50	NP	0.00	14.89	12.24	618.46	1.34	11.96	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MW-17	10/10/11	630.70	633.35	615.50	606.50	NP	0.00	16.19	13.54	617.16	-1.30	10.66	Yes	
MW-17	01/04/12	630.70	633.35	615.50	606.50	NP	0.00	17.49	14.84	615.86	-1.30	9.36	Yes	
MW-17	04/16/12	630.70	633.35	615.50	606.50	NP	0.00	18.22	15.57	615.13	-0.73	8.63	No	
MW-17	06/26/12	630.70	633.35	615.50	606.50	NP	0.00	14.52	11.87	618.83	3.70	12.33	Yes	
MW-17	09/30/12	630.70	633.35	615.50	606.50	NP	0.00	17.27	14.62	616.08	-2.75	9.58	Yes	
MW-17	12/17/12	630.70	633.35	615.50	606.50	NP	0.00	17.98	15.33	615.37	-0.71	8.87	No	
MW-17	03/25/13	630.70	633.35	615.50	606.50	NP	0.00	19.39	16.74	613.96	-1.41	9.03	No	
MW-17	05/05/13	630.70	633.35	615.50	606.50	NP	0.00	18.58	15.93	614.77	0.81	9.61	No	
MW-17	10/03/13	630.70	633.35	615.50	606.50	NP	0.00	17.82	15.17	615.53	0.76	19.14	Yes	
MW-17	05/20/14	Broken and repaired on June 18th, TOC needs to be re-surveyed												
MW-17	07/14/14	630.70	632.88	615.50	606.50	-	-	-	-	-	-	-	-	-
MW-17	07/30/14	630.70	632.88	615.50	606.50	NP	0.00	15.72	13.54	617.16	1.63	18.05	Yes	
MW-17	10/29/14	630.70	632.88	615.50	606.50	NP	0.00	15.71	13.53	617.17	0.01	19.04	Yes	
MW-17	05/06/15	630.70	632.88	615.50	606.50	NP	0.00	17.39	15.21	615.49	-1.68	16.80	No	
MW-17	10/05/15	630.70	632.88	615.50	606.50	NP	0.00	15.26	13.08	617.62	2.13	16.76	Yes	
MW-17	05/23/16	630.70	632.88	615.50	606.50	NP	0.00	13.30	11.12	619.58	1.96	15.99	Yes	
MW-17	10/03/16	630.70	632.88	615.50	606.50	NP	0.00	14.97	12.79	617.91	-1.67	17.70	Yes	
MW-17	06/29/17	630.70	632.88	615.50	606.50	NP	0.00	14.25	12.07	618.63	0.72	16.97	Yes	
MW-17	05/26/20	630.70	632.88	615.50	606.50	NP	0.00	13.64	11.46	619.24	0.61	19.30	Yes	
MW-17	05/24/21	630.70	632.88	615.50	606.50	NP	0.00	14.78	12.60	618.10	-1.14	18.30	Yes	
MW-31	06/30/89	633.20	635.20	614.50	604.50	NP	0.00	19.60	17.60	615.60	NA	11.10	Yes	
MW-31	07/12/89	633.20	635.20	614.50	604.50	NP	0.00	19.99	17.99	615.21	-0.39	10.71	Yes	
MW-31	07/26/89	633.20	635.20	614.50	604.50	NP	0.00	20.23	18.23	614.97	-0.24	10.47	Yes	
MW-31	07/27/89	633.20	635.20	614.50	604.50	NP	0.00	20.37	18.37	614.83	-0.14	10.33	Yes	
MW-31	09/03/89	633.20	635.20	614.50	604.50	NP	0.00	20.54	18.54	614.66	-0.17	10.16	Yes	
MW-31	11/29/89	633.20	635.20	614.50	604.50	NP	0.00	21.26	19.26	613.94	-0.72	9.44	No	
MW-31	12/01/89	633.20	635.20	614.50	604.50	NP	0.00	20.61	18.61	614.59	0.65	10.09	Yes	
MW-31	06/19/90	633.20	635.20	614.50	604.50	NP	0.00	20.46	18.46	614.74	0.15	10.24	Yes	
MW-31	06/27/90	633.20	635.20	614.50	604.50	NP	0.00	20.70	18.70	614.50	-0.24	10.00	No	
MW-31	07/05/90	633.20	635.20	614.50	604.50	NP	0.00	20.88	18.88	614.32	-0.18	9.82	No	
MW-31	07/13/90	633.20	635.20	614.50	604.50	NP	0.00	20.89	18.89	614.31	-0.01	9.81	No	
MW-31	07/17/90	633.20	635.20	614.50	604.50	NP	0.00	20.73	18.73	614.47	0.16	9.97	No	
MW-31	07/25/90	633.20	635.20	614.50	604.50	NP	0.00	20.94	18.94	614.26	-0.21	9.76	No	
MW-31	08/09/90	633.20	635.20	614.50	604.50	NP	0.00	20.96	18.96	614.24	-0.02	9.74	No	
MW-31	08/14/90	633.20	635.20	614.50	604.50	NP	0.00	21.01	19.01	614.19	-0.05	9.69	No	
MW-31	08/27/90	633.20	635.20	614.50	604.50	NP	0.00	20.67	18.67	614.53	0.34	10.03	Yes	
MW-31	09/06/90	633.20	635.20	614.50	604.50	NP	0.00	20.27	18.27	614.93	0.40	10.43	Yes	
MW-31	01/04/91	633.20	635.20	614.50	604.50	NP	0.00	20.19	18.19	615.01	0.08	10.51	Yes	
MW-31	01/30/91	633.20	635.20	614.50	604.50	NP	0.00	20.53	18.53	614.67	-0.34	10.17	Yes	
MW-31	04/24/91	633.20	635.20	614.50	604.50	NP	0.00	20.32	18.32	614.88	0.21	10.38	Yes	
MW-31	07/09/91	633.20	635.20	614.50	604.50	NP	0.00	17.12	15.12	618.08	3.20	13.58	Yes	
MW-31	10/08/91	633.20	635.20	614.50	604.50	NP	0.00	16.38	14.38	618.82	0.74	14.32	Yes	
MW-31	01/07/92	633.20	635.20	614.50	604.50	NP	0.00	17.24	15.24	617.96	-0.86	13.46	Yes	
MW-31	10/14/92	633.20	635.20	614.50	604.50	NP	0.00	17.60	15.60	617.60	-0.36	13.10	Yes	
MW-31	06/25/93	633.20	635.20	614.50	604.50	NP	0.00	14.07	12.07	621.13	3.53	16.63	Yes	

Table 2
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Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MW-31	10/28/93	633.20	635.20	614.50	604.50	NP	0.00	17.95	15.95	617.25	-3.88	12.75	Yes	
MW-31	01/29/94	633.20	635.20	614.50	604.50	NP	0.00	18.19	16.19	617.01	-0.24	12.51	Yes	
MW-31	04/27/94	633.20	635.20	614.50	604.50	NP	0.00	17.95	15.95	617.25	0.24	12.75	Yes	
MW-31	07/21/94	633.20	635.20	614.50	604.50	NP	0.00	17.47	15.47	617.73	0.48	13.23	Yes	
MW-31	10/25/94	633.20	635.20	614.50	604.50	NP	0.00	17.98	15.98	617.22	-0.51	12.72	Yes	
MW-31	10/28/94	633.20	635.20	614.50	604.50	NP	0.00	17.49	15.49	617.71	0.49	13.21	Yes	
MW-31	02/01/95	633.20	635.20	614.50	604.50	NP	0.00	20.39	18.39	614.81	-2.90	10.31	Yes	
MW-31	04/04/95	633.20	635.20	614.50	604.50	NP	0.00	20.03	18.03	615.17	0.36	10.67	Yes	
MW-31	07/12/95	633.20	635.20	614.50	604.50	NP	0.00	18.77	16.77	616.43	1.26	11.93	Yes	
MW-31	11/13/95	633.20	635.20	614.50	604.50	NP	0.00	17.13	15.13	618.07	1.64	13.57	Yes	
MW-31	03/13/96	633.20	635.20	614.50	604.50	NP	0.00	19.81	17.81	615.39	-2.68	10.89	Yes	
MW-31	04/22/96	633.20	635.20	614.50	604.50	NP	0.00	17.43	15.43	617.77	2.38	13.27	Yes	
MW-31	10/08/96	633.20	635.20	614.50	604.50	NP	0.00	16.56	14.56	618.64	0.87	14.14	Yes	
MW-31	04/29/97	633.20	635.20	614.50	604.50	NP	0.00	15.30	13.30	619.90	1.26	15.40	Yes	
MW-31	11/03/98	633.20	635.20	614.50	604.50	NP	0.00	19.93	17.93	615.27	-4.63	10.77	Yes	
MW-31	03/02/99	633.20	635.20	614.50	604.50	NP	0.00	20.03	18.03	615.17	-0.10	10.67	Yes	
MW-31	04/26/00	633.20	635.20	614.50	604.50	NP	0.00	18.63	16.63	616.57	1.40	12.07	Yes	
MW-31	10/10/00	633.20	635.20	614.50	604.50	NP	0.00	19.83	17.83	615.37	-1.20	10.87	Yes	
MW-31	04/24/01	633.20	635.20	614.50	604.50	NP	0.00	18.94	16.94	616.26	0.89	11.76	Yes	
MW-31	10/23/01	633.20	635.20	614.50	604.50	NP	0.00	19.67	17.67	615.53	-0.73	11.03	Yes	
MW-31	04/23/02	633.20	635.20	614.50	604.50	NP	0.00	19.80	17.80	615.40	-0.13	10.90	Yes	
MW-31	11/05/02	633.20	635.20	614.50	604.50	NP	0.00	19.64	17.64	615.56	0.16	11.06	Yes	
MW-31	04/17/03	633.20	635.20	614.50	604.50	NP	0.00	20.90	18.90	614.30	-1.26	9.80	No	
MW-31	10/20/03	633.20	635.20	614.50	604.50	NP	0.00	20.59	18.59	614.61	0.31	10.11	Yes	
MW-31	04/19/04	633.17	635.11	614.50	604.50	NP	0.00	21.15	19.21	613.96	-0.65	9.46	No	
MW-31	11/16/04	633.17	635.11	614.50	604.50	NP	0.00	18.51	16.57	616.60	2.64	12.10	Yes	
MW-31	04/18/05	633.17	635.11	614.50	604.50	NP	0.00	18.79	16.85	616.32	-0.28	11.82	Yes	
MW-31	10/11/05	633.17	635.11	614.50	604.50	NP	0.00	18.18	16.24	616.93	0.61	12.43	Yes	
MW-31	05/23/06	633.17	635.11	614.50	604.50	NP	0.00	17.40	15.46	617.71	0.78	13.21	Yes	
MW-31	10/16/06	633.17	635.11	614.50	604.50	NP	0.00	19.59	17.65	615.52	-2.19	11.02	Yes	
MW-31	04/23/07	633.17	635.11	614.50	604.50	NP	0.00	20.33	18.39	614.78	-0.74	10.28	Yes	
MW-31	09/25/07	633.17	634.94	614.50	604.50	NP	0.00	19.95	18.18	614.99	0.21	10.49	Yes	
MW-31	05/01/08	633.17	634.94	614.50	604.50	NP	0.00	18.17	16.40	616.77	1.78	12.27	Yes	
MW-31	10/20/08	633.17	634.94	614.50	604.50	NP	0.00	16.24	14.47	618.70	1.93	14.20	Yes	
MW-31	04/18/09	633.17	634.94	614.50	604.50	NP	0.00	17.57	15.80	617.37	-1.33	12.87	Yes	
MW-31	10/11/09	633.17	634.94	614.50	604.50	NP	0.00	18.86	17.09	616.08	-1.29	11.58	Yes	
MW-31	04/28/10	633.17	634.94	614.50	604.50	NP	0.00	18.79	17.02	616.15	0.07	11.65	Yes	
MW-31	10/25/10	633.17	634.94	614.50	604.50	NP	0.00	16.76	14.99	618.18	2.03	13.68	Yes	
MW-31	04/25/11	633.17	634.94	614.50	604.50	NP	0.00	17.49	15.72	617.45	-0.73	12.95	Yes	
MW-31	10/10/11	633.17	634.94	614.50	604.50	NP	0.00	17.78	16.01	617.16	-0.29	12.66	Yes	
MW-31	01/04/12	633.17	634.94	614.50	604.50	NP	0.00	19.42	17.65	615.52	-1.64	11.02	Yes	
MW-31	04/16/12	633.17	634.94	614.50	604.50	NP	0.00	19.98	18.21	614.96	-0.56	10.46	Yes	
MW-31	06/26/12	633.17	634.94	614.50	604.50	NP	0.00	15.69	13.92	619.25	4.29	14.75	Yes	
MW-31	09/30/12	633.17	634.94	614.50	604.50	NP	0.00	19.09	17.32	615.85	-3.40	11.35	Yes	
MW-31	12/17/12	633.17	634.94	614.50	604.50	NP	0.00	19.89	18.12	615.05	-0.80	10.55	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MW-31	03/25/13	633.17	634.94	614.50	604.50	NP	0.00	20.84	19.07	614.10	-0.95	9.60	No	
MW-31	05/05/13	633.17	634.94	614.50	604.50	NP	0.00	19.83	18.06	615.11	1.01	10.61	Yes	
MW-31	10/03/13	633.17	634.94	614.50	604.50	NP	0.00	19.47	17.70	615.47	0.36	10.97	Yes	
MW-31	05/20/14	633.17	634.94	614.50	604.50	NP	0.00	16.60	14.83	618.34	2.87	13.84	Yes	
MW-31	10/31/14	633.17	634.94	614.50	604.50	NP	0.00	17.47	15.70	617.47	-0.87	12.97	Yes	
MW-31	05/04/15	633.17	634.94	614.50	604.50	NP	0.00	19.26	17.49	615.68	-1.79	11.18	Yes	
MW-31	10/05/15	633.17	634.94	614.50	604.50	NP	0.00	16.93	15.16	618.01	2.33	13.51	Yes	
MW-31	05/23/16	633.17	634.94	614.50	604.50	NP	0.00	14.91	13.14	620.03	2.02	15.53	Yes	
MW-31	10/03/16	633.17	634.94	614.50	604.50	NP	0.00	16.54	14.77	618.40	-1.63	13.90	Yes	
MW-31	06/29/17	633.17	634.94	614.50	604.50	NP	0.00	15.90	14.13	619.04	0.64	14.54	Yes	
MW-31	05/26/20	633.17	634.94	614.50	604.50	NP	0.00	15.14	13.37	619.80	0.76	15.30	Yes	
MW-31	05/24/21	633.17	634.94	614.50	604.50	NP	0.00	16.73	14.96	618.21	-1.59	13.71	Yes	
MW-31	06/03/22	633.17	634.94	614.50	604.50	NP	0.00	16.10	14.33	618.84	0.63	14.34	Yes	
MW-33	08/06/91	630.40	632.74	616.84	606.84	NP	0.00	12.78	10.44	619.96	NA	13.12	Yes	
MW-33	10/08/91	630.40	632.74	616.84	606.84	NP	0.00	13.22	10.88	619.52	-0.44	12.68	Yes	
MW-33	01/07/92	630.40	632.74	616.84	606.84	NP	0.00	14.29	11.95	618.45	-1.07	11.61	Yes	
MW-33	10/14/92	630.40	632.74	616.84	606.84	NP	0.00	15.49	13.15	617.25	-1.20	10.41	Yes	
MW-33	06/25/93	630.40	632.74	616.84	606.84	NP	0.00	9.70	7.36	623.04	5.79	16.20	Yes	
MW-33	10/28/93	630.40	632.74	616.84	606.84	NP	0.00	15.78	13.44	616.96	-6.08	10.12	Yes	
MW-33	01/29/94	630.40	632.74	616.84	606.84	NP	0.00	16.86	14.52	615.88	-1.08	9.04	No	
MW-33	04/27/94	630.40	632.74	616.84	606.84	NP	0.00	15.19	12.85	617.55	1.67	10.71	Yes	
MW-33	07/21/94	630.40	632.74	616.84	606.84	NP	0.00	14.97	12.63	617.77	0.22	10.93	Yes	
MW-33	10/25/94	630.40	632.74	616.84	606.84	NP	0.00	15.91	13.57	616.83	-0.94	9.99	No	
MW-33	10/28/94	630.40	632.74	616.84	606.84	NP	0.00	15.62	13.28	617.12	0.29	10.28	Yes	
MW-33	02/01/95	630.40	632.74	616.84	606.84	NP	0.00	17.62	15.28	615.12	-2.00	8.28	No	
MW-33	04/04/95	630.40	632.74	616.84	606.84	NP	0.00	17.55	15.21	615.19	0.07	8.35	No	
MW-33	07/12/95	630.40	632.74	616.84	606.84	NP	0.00	16.45	14.11	616.29	1.10	9.45	No	
MW-33	11/13/95	630.40	632.74	616.84	606.84	NP	0.00	14.76	12.42	617.98	1.69	11.14	Yes	
MW-33	03/13/96	630.40	632.74	616.84	606.84	NP	0.00	17.60	15.26	615.14	-2.84	8.30	No	
MW-33	04/22/96	630.40	632.74	616.84	606.84	NP	0.00	14.37	12.03	618.37	3.23	11.53	Yes	
MW-33	10/08/96	630.40	632.74	616.84	606.84	NP	0.00	14.29	11.95	618.45	0.08	11.61	Yes	
MW-33	04/29/97	630.40	632.74	616.84	606.84	NP	0.00	12.35	10.01	620.39	1.94	13.55	Yes	
MW-33	11/03/98	630.40	632.74	616.84	606.84	NP	0.00	18.09	15.75	614.65	-5.74	7.81	No	
MW-33	03/02/99	630.40	632.74	616.84	606.84	NP	0.00	18.00	15.66	614.74	0.09	7.90	No	
MW-33	04/26/00	630.40	632.74	616.84	606.84	NP	0.00	15.92	13.58	616.82	2.08	9.98	No	
MW-33	04/24/01	630.40	632.74	616.84	606.84	NP	0.00	16.57	14.23	616.17	-0.65	9.33	No	
MW-33	10/23/01	630.40	632.74	616.84	606.84	NP	0.00	17.74	15.40	615.00	-1.17	8.16	No	
MW-33	04/23/02	630.40	632.74	616.84	606.84	NP	0.00	17.85	15.51	614.89	-0.11	8.05	No	
MW-33	08/20/02	630.40	632.74	616.84	606.84	NP	0.00	16.47	14.13	616.27	1.38	9.43	No	
MW-33	11/05/02	630.40	632.74	616.84	606.84	NP	0.00	15.54	13.20	617.20	0.93	10.36	Yes	
MW-33	12/23/02	630.40	632.74	616.84	606.84	NP	0.00	17.17	14.83	615.57	-1.63	8.73	No	
MW-33	01/28/03	630.40	632.74	616.84	606.84	NP	0.00	17.80	15.46	614.94	-0.63	8.10	No	
MW-33	02/19/03	630.40	632.74	616.84	606.84	NP	0.00	18.18	15.84	614.56	-0.38	7.72	No	
MW-33	04/17/03	630.40	632.74	616.84	606.84	NP	0.00	18.80	16.46	613.94	-0.62	7.10	No	
MW-33	10/20/03	630.40	632.74	616.84	606.84	NP	0.00	18.66	16.32	614.08	0.14	7.24	No	

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Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MW-33	12/03/03	630.40	632.74	616.84	606.84	NP	0.00	18.95	16.61	613.79	-0.29	6.95	No	
MW-33	04/19/04	630.61	632.85	616.84	606.84	NP	0.00	19.00	16.76	613.85	0.06	7.01	No	
MW-33	07/28/04	630.61	632.85	616.84	606.84	NP	0.00	17.45	15.21	615.40	1.55	8.56	No	
MW-33	11/16/04	630.61	632.85	616.84	606.84	NP	0.00	16.44	14.20	616.41	1.01	9.57	No	
MW-33	04/18/05	630.61	632.85	616.84	606.84	NP	0.00	16.48	14.24	616.37	-0.04	9.53	No	
MW-33	10/11/05	630.61	632.85	616.84	606.84	NP	0.00	16.25	14.01	616.60	0.23	9.76	No	
MW-33	05/23/06	630.61	632.85	616.84	606.84	NP	0.00	14.54	12.30	618.31	1.71	11.47	Yes	
MW-33	10/16/06	630.61	632.85	616.84	606.84	NP	0.00	17.79	15.55	615.06	-3.25	8.22	No	
MW-33	04/23/07	630.61	632.85	616.84	606.84	NP	0.00	18.24	16.00	614.61	-0.45	7.77	No	
MW-33	09/25/07	630.61	632.85	616.84	606.84	NP	0.00	18.51	16.27	614.34	-0.27	7.50	No	
MW-33	05/01/08	630.61	632.85	616.84	606.84	NP	0.00	14.95	12.71	617.90	3.56	11.06	Yes	
MW-33	10/20/08	630.61	632.85	616.84	606.84	NP	0.00	14.82	12.58	618.03	0.13	11.19	Yes	
MW-33	08/31/11	630.61	632.85	616.84	606.84	NP	0.00	14.33	12.09	618.52	0.49	11.68	Yes	
MW-33	10/10/11	630.61	632.85	616.84	606.84	NP	0.00	15.86	13.62	616.99	-1.53	10.15	Yes	
MW-33	01/04/12	630.61	632.85	616.84	606.84	NP	0.00	17.56	15.32	615.29	-1.70	8.45	No	
MW-33	04/16/12	630.61	632.85	616.84	606.84	NP	0.00	18.23	15.99	614.62	-0.67	7.78	No	
MW-33	06/26/12	630.61	632.85	616.84	606.84	NP	0.00	12.72	10.48	620.13	5.51	13.29	Yes	
MW-33	09/30/12	630.61	632.85	616.84	606.84	NP	0.00	17.14	14.90	615.71	-4.42	8.87	No	
MW-33	12/17/12	630.61	632.85	616.84	606.84	NP	0.00	18.20	15.96	614.65	-1.06	7.81	No	
MW-33	03/25/13	630.61	632.85	616.84	606.84	NP	0.00	19.10	16.86	613.75	-0.90	6.91	No	
MW-33	05/05/13	630.61	632.85	616.84	606.84	NP	0.00	18.19	15.95	614.66	0.91	7.82	No	
MW-33	05/20/14	630.61	632.85	616.84	606.84	NP	0.00	13.87	11.63	618.98		12.14	Yes	
MW-33	10/29/14	630.61	632.85	616.84	606.84	NP	0.00	15.40	13.16	617.45		10.61	Yes	
MW-33	05/06/15	630.61	632.85	616.84	606.84	NP	0.00	17.27	15.03	615.58	-1.87	8.74	No	
MW-33	10/05/05	630.61	632.85	616.84	606.84	NP	0.00	16.76	14.52	616.09	0.51	9.25	No	
MW-33	05/23/16	630.61	632.85	616.84	606.84	NP	0.00	12.49	10.25	620.36		13.52	Yes	
MW-33	10/03/16	630.61	632.85	616.84	606.84	NP	0.00	15.07	12.83	617.78	-2.58	10.94	Yes	
MW-33	06/29/17	630.61	632.85	616.84	606.84	NP	0.00	13.68	11.44	619.17	1.39	12.33	Yes	
MW-33	05/26/20	630.61	632.85	616.84	606.84	NP	0.00	12.92	10.68	619.93		13.09	Yes	
MW-33	05/24/21	630.61	632.85	616.84	606.84	NP	0.00	14.83	12.59	618.02		11.18	Yes	
MW-33	06/03/22	630.61	632.85	616.84	606.84	NP	0.00	13.51	11.27	619.34		12.50	Yes	
MW-49S	10/3/2016	620.49	622.66	610.99	600.99	NP	0.00	13.49	11.32	609.17	NA	8.18	No	
MW-49S	6/13/2017	620.49	622.66	610.99	600.99	NP	0.00	11.60	9.43	611.06	1.89	10.07	Yes	
MW-49S	10/3/2017	620.49	622.66	610.99	600.99	NP	0.00	11.79	9.62	610.87	-0.19	9.88	No	
MW-49S	6/18/2018	620.49	622.66	610.99	600.99	NP	0.00	12.12	9.95	610.54	-0.33	9.55	No	
MW-49S	10/8/2018	620.49	622.66	610.99	600.99	NP	0.00	13.33	11.16	609.33	-1.21	8.34	No	
MW-49S	10/8/2018	620.49	622.66	610.99	600.99	NP	0.00	10.86	8.69	611.80	2.47	10.81	Yes	
MW-49S	10/1/2019	620.49	622.66	610.99	600.99	NP	0.00	12.92	10.75	609.74	-2.06	8.75	No	
MW-49S	5/26/2020	620.49	622.66	610.99	600.99	NP	0.00	12.01	9.84	610.65	0.91	9.66	No	
MW-49S	10/5/2020	620.49	622.66	610.99	600.99	NP	0.00	14.07	11.90	608.59	-2.06	7.60	No	
MW-49S	5/24/2021	620.49	622.66	610.99	600.99	NP	0.00	12.43	10.26	610.23	1.64	9.24	No	
MW-49S	6/1/2022	620.49	622.66	610.99	600.99	NP	0.00	11.10	8.93	611.56	1.33	10.57	Yes	
MW-49S	11/1/2022	620.49	622.66	610.99	600.99	NP	0.00	15.80	13.63	606.86	-4.70	5.87	No	
MW-49D	10/3/2016	620.61	622.98	567.61	562.61	NP	0.00	13.46	11.09	609.52	NA	46.91	Yes	
MW-49D	6/13/2017	620.61	622.98	567.61	562.61	NP	0.00	12.66	10.29	610.32	0.80	47.71	Yes	
MW-49D	10/3/2017	620.61	622.98	567.61	562.61	NP	0.00	11.30	8.93	611.68	1.36	49.07	Yes	
MW-49D	6/18/2018	620.61	622.98	567.61	562.61	NP	0.00	12.77	10.40	610.21	-1.47	47.60	Yes	
MW-49D	10/8/2018	620.61	622.98	567.61	562.61	NP	0.00	14.43	12.06	608.55	-1.66	45.94	Yes	

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Former Amoco Terminal
Superior, Wisconsin



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MW-49D	6/3/2019	620.61	622.98	567.61	562.61	NP	0.00	12.37	10.00	610.61	2.06	48.00	Yes	
MW-49D	10/1/2019	620.61	622.98	567.61	562.61	NP	0.00	13.04	10.67	609.94	-0.67	47.33	Yes	
MW-49D	5/26/2020	620.61	622.98	567.61	562.61	NP	0.00	12.75	10.38	610.23	0.29	47.62	Yes	
MW-49D	5/24/2021	620.61	622.98	567.61	562.61	NP	0.00	13.17	10.80	609.81	-0.42	47.20	Yes	
MW-49D	6/2/2022	620.61	622.98	567.61	562.61	NP	0.00	12.63	10.26	610.35	0.54	47.74	Yes	
MWRR-1	10/22/2003	618.12	620.46	613.12	598.03	NP	0.00	14.22	11.88	606.24	NA	8.21	No	
MWRR-1	1/20/2004	618.12	620.46	613.12	598.03	NP	0.00	14.95	12.61	605.51	-0.73	7.48	No	
MWRR-1	4/19/2004	618.12	620.46	613.12	598.03	NP	0.00	12.30	9.96	608.16	2.65	10.13	No	
MWRR-1	7/27/2004	618.12	620.46	613.12	598.03	NP	0.00	12.89	10.55	607.57	-0.59	9.54	No	
MWRR-1	11/18/2004	618.12	620.46	613.12	598.03	NP	0.00	12.29	9.95	608.17	0.60	10.14	No	
MWRR-1	4/18/2005	618.12	620.46	613.12	598.03	NP	0.00	11.82	9.48	608.64	0.47	10.61	No	
MWRR-1	10/11/2005	618.12	620.46	613.12	598.03	NP	0.00	11.59	9.25	608.87	0.23	10.84	No	
MWRR-1	5/23/2006	618.12	620.46	613.12	598.03	NP	0.00	11.75	9.41	608.71	-0.16	10.68	No	
MWRR-1	10/16/2006	618.12	620.46	613.12	598.03	NP	0.00	13.93	11.59	606.53	-2.18	8.50	No	
MWRR-1	4/23/2007	618.12	620.46	613.12	598.03	NP	0.00	11.96	9.62	608.50	1.97	10.47	No	
MWRR-1	9/25/2007	618.12	620.29	613.12	598.03	NP	0.00	11.93	9.76	608.36	-0.14	10.33	No	
MWRR-1	5/1/2008	618.12	620.29	613.12	598.03	NP	0.00	11.17	9.00	609.12	0.76	11.09	No	
MWRR-1	10/20/2008	618.12	620.29	613.12	598.03	NP	0.00	11.42	9.25	608.87	-0.25	10.84	No	
MWRR-1	8/31/2011	618.12	620.29	613.12	598.03	NP	0.00	12.35	10.18	607.94	-0.93	9.91	No	
MWRR-1	10/11/2011	618.12	620.29	613.12	598.03	NP	0.00	13.36	11.19	606.93	-1.01	8.90	No	
MWRR-1	1/4/2012	618.12	620.29	613.12	598.03	NP	0.00	14.41	12.24	605.88	-1.05	7.85	No	
MWRR-1	4/16/2012	618.12	620.29	613.12	598.03	NP	0.00	11.91	9.74	608.38	2.50	10.35	No	
MWRR-1	6/28/2012	618.12	620.29	613.12	598.03	NP	0.00	10.58	8.41	609.71	1.33	11.68	No	
MWRR-1	9/30/2012	618.12	620.29	613.12	598.03	NP	0.00	14.28	12.11	606.01	-3.70	7.98	No	
MWRR-1	12/17/2012	618.12	620.29	613.12	598.03	NP	0.00	14.27	12.10	606.02	0.01	7.99	No	
MWRR-1	3/25/2013	618.12	620.29	613.12	598.03	NP	0.00	14.95	12.78	605.34	-0.68	7.31	No	
MWRR-1	5/6/2013	618.12	620.29	613.12	598.03	NP	0.00	11.72	9.55	608.57	3.23	10.54	No	
MWRR-1	10/1/2013	618.12	620.29	613.12	598.03	NP	0.00	13.84	11.67	606.45	-2.12	8.42	No	
MWRR-1	5/21/2014	618.12	620.29	613.12	598.03	NP	0.00	10.54	8.37	609.75	3.30	11.72	No	
MWRR-1	10/31/2014	618.12	620.29	613.12	598.03	NP	0.00	12.42	10.25	607.87	-1.88	9.84	No	
MWRR-1	5/5/2015	618.12	620.29	613.12	598.03	NP	0.00	12.40	10.23	607.89	0.02	9.86	No	
MWRR-1	10/6/2015	618.12	620.29	613.12	598.03	NP	0.00	11.82	9.65	608.47	0.58	10.44	No	
MWRR-1	5/23/2016	618.12	620.29	613.12	598.03	NP	0.00	11.47	9.30	608.82	0.35	10.79	No	
MWRR-1	10/3/2016	618.12	620.29	613.12	598.03	NP	0.00	12.34	10.17	607.95	-0.87	9.92	No	
MWRR-1	6/29/2017	618.12	620.29	613.12	598.03	NP	0.00	11.09	8.92	609.20	1.25	11.17	No	
MWRR-1	5/26/2020	618.12	620.29	613.12	598.03	NP	0.00	12.06	9.89	608.23	-0.97	10.20	No	
MWRR-1	5/24/2021	618.12	620.29	613.12	598.03	NP	0.00	11.36	9.19	608.93	0.70	10.90	No	
MWRR-1	6/2/2022	618.12	620.29	613.12	598.03	NP	0.00	10.77	8.60	609.52	0.59	11.49	No	
MWRR-1D	6/18/2018	618.12	620.82	568.12	565.12	NP	0.00	7.40	4.70	613.42	NA	48.30	Yes	
MWRR-1D	6/27/2018	618.12	620.82	568.12	565.12	NP	0.00	14.08	11.38	606.74	-6.68	41.62	Yes	
MWRR-1D	10/8/2018	618.12	620.82	568.12	565.12	NP	0.00	12.30	9.60	608.52	1.78	43.40	Yes	
MWRR-1D	10/8/2018	618.12	620.82	568.12	565.12	NP	0.00	11.39	8.69	609.43	0.91	44.31	Yes	
MWRR-1D	10/2/2019	618.12	620.82	568.12	565.12	NP	0.00	11.91	9.21	608.91	-0.52	43.79	Yes	
MWRR-1D	5/26/2020	618.12	620.82	568.12	565.12	NP	0.00	12.07	9.37	608.75	-0.16	43.63	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWRR-1D	10/5/2020	618.12	620.82	568.12	565.12	NP	0.00	13.24	10.54	607.58	-1.17	42.46	Yes	
MWRR-1D	5/24/2021	618.12	620.82	568.12	565.12	NP	0.00	11.96	9.26	608.86	1.28	43.74	Yes	
MWRR-1D	6/2/2022	618.12	620.82	568.12	565.12	NP	0.00	11.38	8.68	609.44	0.58	44.32	Yes	
MWRR-1D	11/2/2022	618.12	620.82	568.12	565.12	NP	0.00	13.87	11.17	606.95	-2.49	41.83	Yes	
MWOW-2	10/21/2003	607.81	610.22	604.24	599.24	NP	0.00	5.01	2.60	605.21	NA	5.97	Yes	
MWOW-2	1/20/2004	607.81	610.22	604.24	599.24	NP	0.00	5.81	3.40	604.41	-0.80	5.17	Yes	
MWOW-2	4/19/2004	607.81	610.22	604.24	599.24	NP	0.00	3.34	0.93	606.88	2.47	7.64	Yes	
MWOW-2	7/27/2004	607.81	610.22	604.24	599.24	NP	0.00	4.28	1.87	605.94	-0.94	6.70	Yes	
MWOW-2	11/18/2004	607.81	610.22	604.24	599.24	NP	0.00	3.60	1.19	606.62	0.68	7.38	Yes	
MWOW-2	4/18/2005	607.81	610.22	604.24	599.24	NP	0.00	3.43	1.02	606.79	0.17	7.55	Yes	
MWOW-2	10/11/2005	607.81	610.22	604.24	599.24	NP	0.00	3.17	0.76	607.05	0.26	7.81	Yes	
MWOW-2	5/23/2006	607.81	610.22	604.24	599.24	NP	0.00	3.65	1.24	606.57	-0.48	7.33	Yes	
MWOW-2	10/16/2006	607.81	610.22	604.24	599.24	NP	0.00	4.98	2.57	605.24	-1.33	6.00	Yes	
MWOW-2	4/23/2007	607.81	610.22	604.24	599.24	NP	0.00	3.69	1.28	606.53	1.29	7.29	Yes	
MWOW-2	9/25/2007	607.81	609.88	604.24	599.24	NP	0.00	3.35	1.28	606.53	0.00	7.29	Yes	
MWOW-2	5/1/2008	607.81	609.88	604.24	599.24	NP	0.00	4.96	2.89	604.92	-1.61	5.68	Yes	
MWOW-2	10/20/2008	607.81	609.88	604.24	599.24	NP	0.00	5.05	2.98	604.83	-0.09	5.59	Yes	
MWOW-2	8/31/2011	607.81	609.88	604.24	599.24	NP	0.00	5.93	3.86	603.95	-0.88	4.71	No	
MWOW-2	10/11/2011	607.81	609.88	604.24	599.24	NP	0.00	5.68	3.61	604.20	0.25	4.96	No	
MWOW-2	1/4/2012	607.81	609.88	604.24	599.24	NP	0.00	5.22	3.15	604.66	0.46	5.42	Yes	
MWOW-2	4/16/2012	607.81	609.88	604.24	599.24	NP	0.00	2.69	0.62	607.19	2.53	7.95	Yes	
MWOW-2	6/28/2012	607.81	609.88	604.24	599.24	NP	0.00	2.32	0.25	607.56	0.37	8.32	Yes	
MWOW-2	9/30/2012	607.81	609.88	604.24	599.24	NP	0.00	5.32	3.25	604.56	-3.00	5.32	Yes	
MWOW-2	12/17/2012	607.81	609.88	604.24	599.24	NP	0.00	4.79	2.72	605.09	0.53	5.85	Yes	
MWOW-2	3/25/2013	607.81	609.88	604.24	599.24	NP	0.00	19.25	17.18	590.63	-14.46	-8.61	No	
MWOW-2	5/6/2013	607.81	609.88	604.24	599.24	NP	0.00	2.86	0.79	607.02	16.39	7.78	Yes	
MWOW-2	10/1/2013	607.81	609.88	604.24	599.24	NP	0.00	4.63	2.56	605.25	-1.77	6.01	Yes	
MWOW-2	5/20/2014	607.81	609.88	604.24	599.24	NP	0.00	2.06	-0.01	607.82	2.57	8.58	Yes	
MWOW-2	10/31/2014	607.81	609.88	604.24	599.24	NP	0.00	3.58	1.51	606.30	-1.52	7.06	Yes	
MWOW-2	5/4/2015	607.81	609.88	604.24	599.24	NP	0.00	3.65	1.58	606.23	-0.07	6.99	Yes	
MWOW-2	10/6/2015	607.81	609.88	604.24	599.24	NP	0.00	3.38	1.31	606.50	0.27	7.26	Yes	
MWOW-2	5/23/2016	607.81	609.88	604.24	599.24	NP	0.00	3.50	1.43	606.38	-0.12	7.14	Yes	
MWOW-2	10/3/2016	607.81	609.88	604.24	599.24	NP	0.00	3.85	1.78	606.03	-0.35	6.79	Yes	
MWOW-2	6/29/2017	607.81	609.88	604.24	599.24	NP	0.00	3.02	0.95	606.86	0.83	7.62	Yes	
MWOW-2	6/3/2019	607.81	609.88	604.24	599.24	NP	0.00	3.42	1.35	606.46	-0.40	7.22	Yes	
MWOW-2	5/26/2020	607.81	609.88	604.24	599.24	NP	0.00	4.01	1.94	605.87	-0.59	6.63	Yes	
MWOW-2	5/24/2021	607.81	609.88	604.24	599.24	NP	0.00	3.49	1.42	606.39	0.52	7.15	Yes	
MWOW-2	6/2/2022	607.81	609.88	604.24	599.24	NP	0.00	3.39	1.32	606.49	0.10	7.25	Yes	
MWOW-2D	6/18/2018	607.81	610.74	572.81	569.81	NP	0.00	2.62	-0.31	608.12	NA	38.31	Yes	
MWOW-2D	10/8/2018	607.81	610.74	572.81	569.81	NP	0.00	3.46	0.53	607.28	-0.84	37.47	Yes	
MWOW-2D	6/3/2019	607.81	610.74	572.81	569.81	NP	0.00	2.94	0.01	607.80	0.52	37.99	Yes	
MWOW-2D	10/2/2019	607.81	610.74	572.81	569.81	NP	0.00	3.10	0.17	607.64	-0.16	37.83	Yes	
MWOW-2D	5/26/2020	607.81	610.74	572.81	569.81	NP	0.00	3.99	1.06	606.75	-0.89	36.94	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MWOW-2D	10/5/2020	607.81	610.74	572.81	569.81	NP	0.00	4.23	1.30	606.51	-0.24	36.70	Yes	
MWOW-2D	5/24/2021	607.81	610.74	572.81	569.81	NP	0.00	3.27	0.34	607.47	0.96	37.66	Yes	
MWOW-2D	6/1/2022	607.81	610.74	572.81	569.81	NP	0.00	2.88	-0.05	607.86	0.39	38.05	Yes	
MWOW-2D	11/2/2022	607.81	610.74	572.81	569.81	NP	0.00	4.79	1.86	605.95	-1.91	36.14	Yes	
MRW-5	10/12/2011	625.10	627.88	610.12	595.12	12.51	6.57	19.08	16.30	608.80	NA	20.25	No	
MRW-5	10/21/2011	625.10	627.88	610.12	595.12	12.70	6.52	19.22	16.44	608.66	-0.14	20.06	No	
MRW-5	10/27/2011	625.10	627.88	610.12	595.12	12.85	6.38	19.23	16.45	608.65	-0.01	19.91	No	
MRW-5	11/3/2011	625.10	627.88	610.12	595.12	13.15	6.14	19.29	16.51	608.59	-0.06	19.61	No	
MRW-5	11/9/2011	625.10	627.88	610.12	595.12	13.11	6.13	19.24	16.46	608.64	0.05	19.65	No	
MRW-5	11/17/2011	625.10	627.88	610.12	595.12	13.47	5.80	19.27	16.49	608.61	-0.03	19.29	No	Reading before install of well pumps for Barge system expansion.
MRW-5	11/29/2011	625.10	627.88	610.12	595.12	13.80	5.00	18.80	16.02	609.08	0.47	18.96	No	Connected to System
MRW-5	12/1/2011	625.10	627.88	610.12	595.12	14.13	7.63	21.76	18.98	606.12	-2.96	18.63	No	Connected to System
MRW-5	1/4/2012	625.10	627.88	610.12	595.12	14.37	4.93	19.30	16.52	608.58	2.46	18.39	No	Connected to System
MRW-5	2/16/2012	625.10	627.88	610.12	595.12	15.24	4.10	19.34	16.56	608.54	-0.04	17.52	No	
MRW-5	3/13/2012	625.10	627.88	610.12	595.12	15.09	4.26	19.35	16.57	608.53	-0.01	17.67	No	
MRW-5	4/16/2012	625.10	627.88	610.12	595.12	13.74	5.65	19.39	16.61	608.49	-0.04	19.02	No	
MRW-5	6/19/2012	625.10	627.88	610.12	595.12	9.82	9.72	19.54	16.76	608.34	-0.15	22.94	No	
MRW-5	6/21/2012	625.10	627.88	610.12	595.12	10.70	0.65	11.35	8.57	616.53	8.19	22.06	Yes	
MRW-5	6/22/2012	625.10	627.88	610.12	595.12	8.40	10.53	18.93	16.15	608.95	-7.58	24.36	No	
MRW-5	6/28/2012	625.10	627.88	610.12	595.12	11.14	0.25	11.39	8.61	616.49	7.54	21.62	Yes	
MRW-5	12/17/2012	625.10	627.88	610.12	595.12	15.25	3.90	19.15	16.37	608.73	-7.76	17.51	No	
MRW-5	3/25/2013	625.10	627.88	610.12	595.12	16.55	2.84	19.39	16.61	608.49	-0.24	16.21	No	
MRW-5	5/5/2013	625.10	627.88	610.12	595.12	13.27	6.12	19.39	16.61	608.49	0.00	19.49	No	
MRW-5	3/17/2015	625.10	627.88	610.12	595.12	14.75	4.22	18.97	16.19	608.91	0.42	18.01	No	
MRW-5	6/25/2015	625.10	627.88	610.12	595.12	13.64	0.26	13.90	11.12	613.98	5.49	19.12	Yes	
MRW-5	7/10/2015	625.10	627.88	610.12	595.12	13.55	0.36	13.91	11.13	613.97	-0.01	19.21	Yes	
MRW-5	7/13/2015	625.10	627.88	610.12	595.12	13.50	0.37	13.87	11.09	614.01	0.04	19.26	Yes	
MRW-5	9/10/2015	625.10	627.88	610.12	595.12	13.79	0.29	14.08	11.30	613.80	-0.21	18.97	Yes	
MRW-5	9/24/2015	625.10	627.88	610.12	595.12	13.28	0.02	13.30	10.52	614.58	0.78	19.48	Yes	
MRW-5	10/1/2015	625.10	627.88	610.12	595.12	12.97	0.26	13.23	10.45	614.65	0.07	19.79	Yes	
MRW-5	10/14/2015	625.10	627.88	610.12	595.12	13.49	0.35	13.84	11.06	614.04	-0.61	19.27	Yes	
MRW-5	3/7/2016	625.10	627.88	610.12	595.12	10.74	0.25	10.99	8.21	616.89	2.85	22.02	Yes	Pre system start
MRW-5	4/21/2016	625.10	627.88	610.12	595.12	8.94	9.82	18.76	15.98	609.12	-7.77	23.82	No	
MRW-5	5/18/2016	625.10	627.88	610.12	595.12	10.98	1.13	12.11	9.33	615.77	6.65	21.78	Yes	
MRW-5	5/25/2016	625.10	627.88	610.12	595.12	11.40	0.32	11.72	8.94	616.16	0.39	21.36	Yes	
MRW-5	5/31/2016	625.10	627.88	610.12	595.12	11.29	0.29	11.58	8.80	616.30	0.14	21.47	Yes	
MRW-5	6/14/2016	625.10	627.88	610.12	595.12	11.18	0.28	11.46	8.68	616.42	0.12	21.58	Yes	
MRW-5	6/21/2016	625.10	627.88	610.12	595.12	10.66	0.19	10.85	8.07	617.03	0.61	22.10	Yes	
MRW-5	7/6/2016	625.10	627.88	610.12	595.12	10.17	7.51	17.68	14.90	610.20	-6.83	22.59	Yes	
MRW-5	7/7/2016	625.10	627.88	610.12	595.12	11.07	3.10	14.17	11.39	613.71	3.51	21.69	Yes	
MRW-5	7/15/2016	625.10	627.88	610.12	595.12	11.08	0.27	11.35	8.57	616.53	2.82	21.68	Yes	
MRW-5	7/25/2016	625.10	627.88	610.12	595.12	11.75	0.44	12.19	9.41	615.69	-0.84	21.01	Yes	
MRW-5	8/26/2016	625.10	627.88	610.12	595.12	12.96	0.37	13.33	10.55	614.55	-1.14	19.80	Yes	
MRW-5	9/2/2016	625.10	627.88	610.12	595.12	12.85	0.50	13.35	10.57	614.53	-0.02	19.91	Yes	
MRW-5	10/3/2016	625.10	627.88	610.12	595.12	13.04	0.30	13.34	10.56	614.54	0.01	19.72	Yes	
MRW-5	10/6/2016	625.10	627.88	610.12	595.12	13.18	0.34	13.52	10.74	614.36	-0.18	19.58	Yes	
MRW-5	10/13/2016	625.10	627.88	610.12	595.12	13.24	0.33	13.57	10.79	614.31	-0.05	19.52	Yes	
MRW-5	5/2/2017	625.10	627.88	610.12	595.12	9.37	9.38	18.75	15.97	609.13	-5.18	23.39	No	
MRW-5	5/8/2017	625.10	627.88	610.12	595.12	11.51	0.31	11.82	9.04	616.06	6.93	21.25	Yes	
MRW-5	5/18/2017	625.10	627.88	610.12	595.12	11.19	0.31	11.50	8.72	616.38	0.32	21.57	Yes	

Table 2
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 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-5	5/25/2017	625.10	627.88	610.12	595.12	10.09	0.31	10.40	7.62	617.48	1.10	22.67	Yes	
MRW-5	5/31/2017	625.10	627.88	610.12	595.12	10.14	0.33	10.47	7.69	617.41	-0.07	22.62	Yes	
MRW-5	6/14/2017	625.10	627.88	610.12	595.12	11.30	0.26	11.56	8.78	616.32	-1.09	21.46	Yes	
MRW-5	6/21/2017	625.10	627.88	610.12	595.12	11.76	0.64	12.40	9.62	615.48	-0.84	21.00	Yes	
MRW-5	06/29/17	625.10	627.88	610.12	595.12	11.96	0.26	12.22	9.44	615.66	0.18	20.80	Yes	
MRW-5	7/7/2017	625.10	627.88	610.12	595.12	11.45	0.30	11.75	8.97	616.13	0.47	21.31	Yes	
MRW-5	07/12/17	625.10	627.88	610.12	595.12	11.44	0.22	11.66	8.88	616.22	0.09	21.32	Yes	
MRW-5	7/19/2017	625.10	627.88	610.12	595.12	11.33	0.30	11.63	8.85	616.25	0.03	21.43	Yes	
MRW-5	07/26/17	625.10	627.88	610.12	595.12	11.56	0.30	11.86	9.08	616.02	-0.23	21.20	Yes	
MRW-5	7/27/2017	625.10	627.88	610.12	595.12	11.73	0.30	12.03	9.25	615.85	-0.17	21.03	Yes	
MRW-5	08/04/17	625.10	627.88	610.12	595.12	11.88	0.30	12.18	9.40	615.70	-0.15	20.88	Yes	
MRW-5	8/8/2017	625.10	627.88	610.12	595.12	12.01	0.31	12.32	9.54	615.56	-0.14	20.75	Yes	
MRW-5	08/15/17	625.10	627.88	610.12	595.12	11.28	0.20	11.48	8.70	616.40	0.84	21.48	Yes	
MRW-5	8/22/2017	625.10	627.88	610.12	595.12	10.97	0.36	11.33	8.55	616.55	0.15	21.79	Yes	
MRW-5	08/30/17	625.10	627.88	610.12	595.12	10.01	0.02	10.03	7.25	617.85	1.30	22.75	Yes	
MRW-5	9/7/2017	625.10	627.88	610.12	595.12	10.28	0.33	10.61	7.83	617.27	-0.58	22.48	Yes	
MRW-5	09/14/17	625.10	627.88	610.12	595.12	10.91	0.59	11.50	8.72	616.38	-0.89	21.85	Yes	
MRW-5	9/19/2017	625.10	627.88	610.12	595.12	11.03	1.82	12.85	10.07	615.03	-1.35	21.73	Yes	
MRW-5	09/27/17	625.10	627.88	610.12	595.12	10.91	0.28	11.19	8.41	616.69	1.66	21.85	Yes	
MRW-5	10/12/2017	625.10	627.88	610.12	595.12	9.88	0.29	10.17	7.39	617.71	1.02	22.88	Yes	
MRW-5	10/26/2017	625.10	627.88	610.12	595.12	10.34	0.30	10.64	7.86	617.24	-0.47	22.42	Yes	
MRW-5	5/14/2018	625.10	627.88	610.12	595.12	11.75	7.08	18.83	16.05	609.05	-8.19	21.01	No	
MRW-5	5/15/2018	625.10	627.88	610.12	595.12	13.41	0.31	13.72	10.94	614.16	5.11	19.35	Yes	
MRW-5	5/23/2018	625.10	627.88	610.12	595.12	13.70	0.30	14.00	11.22	613.88	-0.28	19.06	Yes	
MRW-5	5/24/2018	625.10	627.88	610.12	595.12	13.64	0.27	13.91	11.13	613.97	0.09	19.12	Yes	
MRW-5	5/30/2018	625.10	627.88	610.12	595.12	13.03	0.23	13.26	10.48	614.62	0.65	19.73	Yes	
MRW-5	6/8/2018	625.10	627.88	610.12	595.12	12.49	0.30	12.79	10.01	615.09	0.47	20.27	Yes	Pumps were too high, increased product thickness
MRW-5	6/12/2018	625.10	627.88	610.12	595.12	12.64	0.28	12.92	10.14	614.96	-0.13	20.12	Yes	
MRW-5	6/15/2018	625.10	627.88	610.12	595.12	12.71	0.29	13.00	10.22	614.88	-0.08	20.05	Yes	
MRW-5	6/19/2018	625.10	627.88	610.12	595.12	11.68	0.01	11.69	8.91	616.19	1.31	21.08	Yes	
MRW-5	6/28/2018	625.10	627.88	610.12	595.12	12.95	0.97	13.92	11.14	613.96	-2.23	19.81	Yes	
MRW-5	7/3/2018	625.10	627.88	610.12	595.12	12.01	0.23	12.24	9.46	615.64	1.68	20.75	Yes	
MRW-5	7/10/2018	625.10	627.88	610.12	595.12	12.18	0.37	12.55	9.77	615.33	-0.31	20.58	Yes	
MRW-5	7/25/2018	625.10	627.88	610.12	595.12	12.68	2.55	15.23	12.45	612.65	-2.68	20.08	Yes	Season pre-start level check
MRW-5	8/8/2018	625.10	627.88	610.12	595.12	13.65	0.32	13.97	11.19	613.91	1.26	19.11	Yes	System Startup
MRW-5	8/16/2018	625.10	627.88	610.12	595.12	14.10	0.25	14.35	11.57	613.53	-0.38	18.66	Yes	
MRW-5	9/4/2018	625.10	627.88	610.12	595.12	13.89	0.31	14.20	11.42	613.68	0.15	18.87	Yes	
MRW-5	9/17/2018	625.10	627.88	610.12	595.12	13.79	0.29	14.08	11.30	613.80	0.12	18.97	Yes	System Down, Tank Full
MRW-5	10/22/2018	625.10	627.88	610.12	595.12	12.45	0.26	12.71	9.93	615.17	1.37	20.31	Yes	System Up and Running, Tank Pumped out
MRW-5	10/29/2018	625.10	627.88	610.12	595.12	12.39	0.27	12.66	9.88	615.22	0.05	20.37	Yes	
MRW-5	5/2/2019	625.10	627.88	610.12	595.12	10.30	8.34	18.64	15.86	609.24	-5.98	22.46	No	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-5	5/7/2019	625.10	627.88	610.12	595.12	12.09	0.29	12.38	9.60	615.50	6.26	20.67	Yes	
MRW-5	5/14/2019	625.10	627.88	610.12	595.12	11.56	0.23	11.79	9.01	616.09	0.59	21.20	Yes	
MRW-5	5/22/2019	625.10	627.88	610.12	595.12	10.72	0.30	11.02	8.24	616.86	0.77	22.04	Yes	
MRW-5	5/28/2019	625.10	627.88	610.12	595.12	9.85	3.39	13.24	10.46	614.64	-2.22	22.91	Yes	
MRW-5	6/7/2019	625.10	627.88	610.12	595.12	10.74	0.27	11.01	8.23	616.87	2.23	22.02	Yes	
MRW-5	6/13/2019	625.10	627.88	610.12	595.12	10.99	0.37	11.36	8.58	616.52	-0.35	21.77	Yes	
MRW-5	6/24/2019	625.10	627.88	610.12	595.12	11.33	2.16	13.49	10.71	614.39	-2.13	21.43	Yes	
MRW-5	7/3/2019	625.10	627.88	610.12	595.12	11.31	0.25	11.56	8.78	616.32	1.93	21.45	Yes	System down on 10/18 (power line down), restarted 10/21
MRW-5	7/16/2019	625.10	627.88	610.12	595.12	12.32	0.34	12.66	9.88	615.22	-1.10	20.44	Yes	
MRW-5	8/14/2019	625.10	627.88	610.12	595.12	13.68	0.28	13.96	11.18	613.92	-1.30	19.08	Yes	
MRW-5	8/28/2019	625.10	627.88	610.12	595.12	13.79	0.26	14.05	11.27	613.83	-1.39	18.97	Yes	
MRW-5	9/12/2019	625.10	627.88	610.12	595.12	13.44	0.25	13.69	10.91	614.19	0.36	19.32	Yes	
MRW-5	9/25/2019	625.10	627.88	610.12	595.12	12.89	0.24	13.13	10.35	614.75	0.56	19.87	Yes	
MRW-5	10/4/2019	625.10	627.88	610.12	595.12	12.29	0.19	12.48	9.70	615.40	0.65	20.47	Yes	
MRW-5	10/7/2019	625.10	627.88	610.12	595.12	11.74	0.27	12.01	9.23	615.87	0.47	21.02	Yes	System start reading
MRW-5	10/21/2019	625.10	627.88	610.12	595.12	11.54	0.32	11.86	9.08	616.02	0.15	21.22	Yes	
MRW-5	10/29/2019	625.10	627.88	610.12	595.12	11.45	0.29	11.74	8.96	616.14	0.12	21.31	Yes	
MRW-5	3/31/2020	625.10	627.88	610.12	595.12	8.05	10.35	18.40	15.62	609.48	-6.66	24.71	No	
MRW-5	4/21/2020	625.10	627.88	610.12	595.12	8.65	9.87	18.52	15.74	609.36	-0.12	24.11	No	
MRW-5	4/22/2020	625.10	627.88	610.12	595.12	10.78	0.34	11.12	8.34	616.76	7.40	21.98	Yes	
MRW-5	4/30/2020	625.10	627.88	610.12	595.12	10.69	0.30	10.99	8.21	616.89	0.13	22.07	Yes	
MRW-5	5/11/2020	625.10	627.88	610.12	595.12	10.98	0.34	11.32	8.54	616.56	-0.33	21.78	Yes	
MRW-5	5/20/2020	625.10	627.88	610.12	595.12	11.28	1.04	12.32	9.54	615.56	-1.00	21.48	Yes	
MRW-5	5/26/2020	625.10	627.88	610.12	595.12	11.69	0.34	12.03	9.25	615.85	0.29	21.07	Yes	
MRW-5	5/28/2020	625.10	627.88	610.12	595.12	11.19	0.28	11.47	8.69	616.41	0.56	21.57	Yes	
MRW-5	6/2/2020	625.10	627.88	610.12	595.12	11.17	1.59	12.76	9.98	615.12	-1.29	21.59	Yes	
MRW-5	6/11/2020	625.10	627.88	610.12	595.12	11.72	1.96	13.68	10.90	614.20	-0.92	21.04	Yes	
MRW-5	6/22/2020	625.10	627.88	610.12	595.12	12.58	0.61	13.19	10.41	614.69	0.49	20.18	Yes	
MRW-5	7/6/2020	625.10	627.88	610.12	595.12	13.05	0.84	13.89	11.11	613.99	-0.70	19.71	Yes	
MRW-5	7/20/2020	625.10	627.88	610.12	595.12	12.65	0.31	12.96	10.18	614.92	0.93	20.11	Yes	
MRW-5	7/28/2020	625.10	627.88	610.12	595.12	12.47	0.32	12.79	10.01	615.09	0.17	20.29	Yes	
MRW-5	8/12/2020	625.10	627.88	610.12	595.12	12.50	0.28	12.78	10.00	615.10	0.01	20.26	Yes	
MRW-5	8/25/2020	625.10	627.88	610.12	595.12	12.93	0.65	13.58	10.80	614.30	-0.80	19.83	Yes	
MRW-5	9/8/2020	625.10	627.88	610.12	595.12	13.28	0.36	13.64	10.86	614.24	-0.06	19.48	Yes	
MRW-5	9/23/2020	625.10	627.88	610.12	595.12	13.67	0.39	14.06	11.28	613.82	-0.42	19.09	Yes	
MRW-5	10/7/2020	625.10	627.88	610.12	595.12	14.15	0.47	14.62	11.84	613.26	-0.56	18.61	Yes	
MRW-5	10/20/2020	625.10	627.88	610.12	595.12	13.95	0.29	14.24	11.46	613.64	0.38	18.81	Yes	Reading after system removal.
MRW-5	4/28/2021	625.10	627.88	610.12	595.12	10.75	7.81	18.56	15.78	609.32	-4.32	22.01	No	
MRW-5	4/29/2021	625.10	627.88	610.12	595.12	12.40	0.30	12.70	9.92	615.18	5.86	20.36	Yes	
MRW-5	5/6/2021	625.10	627.88	610.12	595.12	12.68	0.32	13.00	10.22	614.88	-0.30	20.08	Yes	
MRW-5	5/13/2021	625.10	627.88	610.12	595.12	12.96	0.32	13.28	10.50	614.60	-0.28	19.80	Yes	
MRW-5	5/19/2021	625.10	627.88	610.12	595.12	13.23	0.37	13.60	10.82	614.28	-0.32	19.53	Yes	
MRW-5	5/24/2021	625.10	627.88	610.12	595.12	12.50	0.22	12.72	9.94	615.16	0.88	20.26	Yes	
MRW-5	5/28/2021	625.10	627.88	610.12	595.12	12.62	0.25	12.87	10.09	615.01	-0.15	20.14	Yes	
MRW-5	6/8/2021	625.10	627.88	610.12	595.12	13.11	0.52	13.63	10.85	614.25	-0.76	19.65	Yes	
MRW-5	6/22/2021	625.10	627.88	610.12	595.12	13.58	0.33	13.91	11.13	613.97	-0.28	19.18	Yes	
MRW-5	7/1/2021	625.10	627.88	610.12	595.12	13.21	0.32	13.53	10.75	614.35	0.38	19.55	Yes	
MRW-5	7/12/2021	625.10	627.88	610.12	595.12	13.66	0.99	14.65	11.87	613.23	-1.12	19.10	Yes	
MRW-5	7/27/2021	625.10	627.88	610.12	595.12	14.21	0.59	14.80	12.02	613.08	-0.15	18.55	Yes	
MRW-5	8/3/2021	625.10	627.88	610.12	595.12	14.38	0.29	14.67	11.89	613.21	0.13	18.38	Yes	
MRW-5	8/10/2021	625.10	627.88	610.12	595.12	14.48	0.37	14.85	12.07	613.03	-0.18	18.28	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-5	8/24/2021	625.10	627.88	610.12	595.12	14.90	0.32	15.22	12.44	612.66	-0.37	17.86	Yes	
MRW-5	8/31/2021	625.10	627.88	610.12	595.12	14.70	0.28	14.98	12.20	612.90	0.24	18.06	Yes	
MRW-5	9/14/2021	625.10	627.88	610.12	595.12	14.91	0.27	15.18	12.40	612.70	-0.20	17.85	Yes	
MRW-5	9/28/2021	625.10	627.88	610.12	595.12	14.59	0.28	14.87	12.09	613.01	0.31	18.17	Yes	
MRW-5	10/5/2021	625.10	627.88	610.12	595.12	14.56	0.33	14.89	12.11	612.99	-0.02	18.20	Yes	
MRW-5	10/19/2021	625.10	627.88	610.12	595.12	14.55	0.22	14.77	11.99	613.11	0.12	18.21	Yes	
MRW-5	10/28/2021	625.10	627.88	610.12	595.12	14.68	0.32	15.00	12.22	612.88	-0.23	18.08	Yes	
MRW-5	5/2/2022	625.10	627.88	610.12	595.12	12.04	4.91	16.95	14.17	610.93	-1.95	20.72	Yes	System startup
MRW-5	5/3/2022	625.10	627.88	610.12	595.12	12.82	0.59	13.41	10.63	614.47	3.54	19.94	Yes	
MRW-5	5/10/2022	625.10	627.88	610.12	595.12	11.82	4.02	15.84	13.06	612.04	-2.43	20.94	Yes	
MRW-5	5/19/2022	625.10	627.88	610.12	595.12	9.89	8.28	18.17	15.39	609.71	-2.33	22.87	No	
MRW-5	6/2/2022	625.10	627.88	610.12	595.12	9.61	8.65	18.26	15.48	609.62	-0.09	23.15	No	
MRW-5	6/10/2022	625.10	627.88	610.12	595.12	12.00	1.00	13.00	10.22	614.88	5.26	20.76	Yes	
MRW-5	6/16/2022	625.10	627.88	610.12	595.12	12.54	0.38	12.92	10.14	614.96	0.08	20.22	Yes	
MRW-5	6/23/2022	625.10	627.88	610.12	595.12	12.76	0.33	13.09	10.31	614.79	-0.17	20.00	Yes	
MRW-5	6/30/2022	625.10	627.88	610.12	595.12	12.80	0.28	13.08	10.30	614.80	0.01	19.96	Yes	
MRW-5	7/12/2022	625.10	627.88	610.12	595.12	13.25	0.90	14.15	11.37	613.73	-1.07	19.51	Yes	
MRW-5	7/25/2022	625.10	627.88	610.12	595.12	13.76	1.17	14.93	12.15	612.95	-0.78	19.00	Yes	
MRW-5	8/15/2022	625.10	627.88	610.12	595.12	14.52	0.23	14.75	11.97	613.13	0.18	18.24	Yes	
MRW-5	8/26/2022	625.10	627.88	610.12	595.12	14.45	0.35	14.80	12.02	613.08	-0.05	18.31	Yes	
MRW-5	9/8/2022	625.10	627.88	610.12	595.12	14.61	0.33	14.94	12.16	612.94	-0.14	18.15	Yes	
MRW-5	9/19/2022	625.10	627.88	610.12	595.12	14.63	0.32	14.95	12.17	612.93	-0.01	18.13	Yes	
MRW-5	10/5/2022	625.10	627.88	610.12	595.12	14.65	0.32	14.97	12.19	612.91	-0.02	18.11	Yes	
MRW-5	10/25/2022	625.10	627.88	610.12	595.12	15.16	0.38	15.54	12.76	612.34	-0.57	17.60	Yes	
MRW-7	10/11/2011	627.30	629.77	608.30	593.30	16.65	3.02	19.67	14.83	612.47	NA	19.82	Yes	EFR Check
MRW-7	10/12/2011	627.30	629.77	608.30	593.30	14.46	12.71	27.17	14.72	612.58	0.11	22.01	Yes	
MRW-7	10/28/2011	627.30	629.77	608.30	593.30	14.98	11.50	26.48	14.98	612.32	-0.26	21.49	Yes	
MRW-7	11/3/2011	627.30	629.77	608.30	593.30	15.09	11.91	27.00	15.18	612.12	-0.20	21.38	Yes	
MRW-7	11/9/2011	627.30	629.77	608.30	593.30	15.02	12.19	27.21	15.17	612.13	0.01	21.45	Yes	
MRW-7	11/10/2011	627.30	629.77	608.30	593.30	15.03	12.27	27.30	15.20	612.10	-0.03	21.44	Yes	
MRW-7	11/10/2011	627.30	629.77	608.30	593.30	20.80	0.30	21.10	18.39	608.91	-3.20	15.67	Yes	
MRW-7	11/13/2011	627.30	629.77	608.30	593.30	15.06	12.09	27.15	15.19	612.11	3.21	21.41	Yes	
MRW-7	11/17/2011	627.30	629.77	608.30	593.30	15.28	11.96	27.24	15.38	611.92	-0.19	21.19	Yes	Reading before install of well pumps for Barge system expansion.
MRW-7	11/22/2011	627.30	629.77	608.30	593.30	15.33	11.94	27.27	15.43	611.87	-0.05	21.14	Yes	Connected to System
MRW-7	12/1/2011	627.30	629.77	608.30	593.30	15.54	11.68	27.22	15.58	611.72	-0.15	20.93	Yes	Connected to System
MRW-7	1/4/2012	627.30	629.77	608.30	593.30	16.12	11.15	27.27	16.05	611.25	-0.47	20.35	Yes	Connected to System
MRW-7	2/16/2012	627.30	629.77	608.30	593.30	16.88	10.39	27.27	16.64	610.66	-0.60	19.59	Yes	
MRW-7	3/13/2012	627.30	629.77	608.30	593.30	16.68	10.56	27.24	16.48	610.82	0.16	19.79	Yes	
MRW-7	4/16/2012	627.30	629.77	608.30	593.30	15.21	12.03	27.24	15.32	611.98	1.15	21.26	Yes	
MRW-7	6/11/2012	627.30	629.77	608.30	593.30	12.56	14.72	27.28	13.25	614.05	2.07	23.91	Yes	
MRW-7	6/21/2012	627.30	629.77	608.30	593.30	12.91	5.98	18.89	11.72	615.58	1.53	23.56	Yes	
MRW-7	6/22/2012	627.30	629.77	608.30	593.30	14.08	0.70	14.78	11.76	615.54	-0.04	22.39	Yes	
MRW-7	6/28/2012	627.30	629.77	608.30	593.30	14.65	0.19	14.84	12.22	615.08	-0.46	21.82	Yes	
MRW-7	12/17/2012	627.30	629.77	608.30	593.30	17.11	8.93	26.04	16.56	610.74	-4.34	19.36	Yes	
MRW-7	3/25/2013	627.30	629.77	608.30	593.30	18.15	8.44	26.59	17.49	609.81	-0.93	18.32	Yes	
MRW-7	5/5/2013	627.30	629.77	608.30	593.30	15.04	11.41	26.45	15.02	612.28	2.47	21.43	Yes	
MRW-7	3/17/2015	627.30	629.77	608.30	593.30	16.43	9.46	25.89	15.99	611.31	-0.97	20.04	Yes	

Table 2
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 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-7	6/25/2015	627.30	629.77	608.30	593.30	16.78	0.19	16.97	14.35	612.95	1.64	19.69	Yes	
MRW-7	7/10/2015	627.30	629.77	608.30	593.30	16.77	0.26	17.03	14.36	612.94	-0.01	19.70	Yes	
MRW-7	7/13/2015	627.30	629.77	608.30	593.30	16.73	0.22	16.95	14.31	612.99	0.05	19.74	Yes	
MRW-7	9/10/2015	627.30	629.77	608.30	593.30	17.02	0.24	17.26	14.60	612.70	-0.29	19.45	Yes	
MRW-7	9/24/2015	627.30	629.77	608.30	593.30	16.29	0.18	16.47	13.86	613.44	0.74	20.18	Yes	
MRW-7	10/1/2015	627.30	629.77	608.30	593.30	16.22	0.27	16.49	13.81	613.49	0.05	20.25	Yes	
MRW-7	10/14/2015	627.30	629.77	608.30	593.30	16.73	0.26	16.99	14.32	612.98	-0.51	19.74	Yes	
MRW-7	4/21/2016	627.30	629.77	608.30	593.30	15.40	0.25	15.65	12.98	614.32	1.33	21.07	Yes	Pre system start
MRW-7	5/18/2016	627.30	629.77	608.30	593.30	14.56	0.83	15.39	12.27	615.03	0.72	21.91	Yes	
MRW-7	5/25/2016	627.30	629.77	608.30	593.30	14.93	0.21	15.14	12.51	614.79	-0.24	21.54	Yes	
MRW-7	5/31/2016	627.30	629.77	608.30	593.30	14.81	0.23	15.04	12.39	614.91	0.12	21.66	Yes	
MRW-7	6/7/2016	627.30	629.77	608.30	593.30	14.36	0.22	14.58	11.94	615.36	0.45	22.11	Yes	
MRW-7	6/14/2016	627.30	629.77	608.30	593.30	14.71	0.28	14.99	12.30	615.00	-0.36	21.76	Yes	
MRW-7	6/21/2016	627.30	629.77	608.30	593.30	14.39	0.20	14.59	11.96	615.34	0.34	22.08	Yes	
MRW-7	7/6/2016	627.30	629.77	608.30	593.30	12.45	12.64	25.09	12.70	614.60	-0.73	24.02	Yes	
MRW-7	7/7/2016	627.30	629.77	608.30	593.30	13.48	8.80	22.28	12.90	614.40	-0.20	22.99	Yes	
MRW-7	7/15/2016	627.30	629.77	608.30	593.30	14.70	0.25	14.95	12.28	615.02	0.62	21.77	Yes	
MRW-7	7/25/2016	627.30	629.77	608.30	593.30	15.29	0.30	15.59	12.88	614.42	-0.60	21.18	Yes	
MRW-7	8/26/2016	627.30	629.77	608.30	593.30	16.19	0.54	16.73	13.84	613.46	-0.95	20.28	Yes	
MRW-7	9/2/2016	627.30	629.77	608.30	593.30	16.26	0.21	16.47	13.84	613.46	0.00	20.21	Yes	
MRW-7	10/3/2016	627.30	629.77	608.30	593.30	16.38	0.22	16.60	13.96	613.34	-0.12	20.09	Yes	
MRW-7	10/6/2016	627.30	629.77	608.30	593.30	16.46	0.29	16.75	14.05	613.25	-0.10	20.01	Yes	
MRW-7	10/13/2016	627.30	629.77	608.30	593.30	16.55	0.27	16.82	14.14	613.16	-0.09	19.92	Yes	
MRW-7	5/2/2017	627.30	629.77	608.30	593.30	11.96	13.31	25.27	12.35	614.95	1.79	24.51	Yes	
MRW-7	5/8/2017	627.30	629.77	608.30	593.30	14.97	0.27	15.24	12.56	614.74	-0.21	21.50	Yes	
MRW-7	5/18/2017	627.30	629.77	608.30	593.30	14.57	0.25	14.82	12.15	615.15	0.40	21.90	Yes	
MRW-7	5/25/2017	627.30	629.77	608.30	593.30	13.79	0.24	14.03	11.37	615.93	0.78	22.68	Yes	
MRW-7	5/31/2017	627.30	629.77	608.30	593.30	13.76	0.27	14.03	11.35	615.95	0.02	22.71	Yes	
MRW-7	6/14/2017	627.30	629.77	608.30	593.30	14.79	0.23	15.02	12.37	614.93	-1.02	21.68	Yes	
MRW-7	6/21/2017	627.30	629.77	608.30	593.30	15.79	0.23	16.02	13.37	613.93	-1.00	20.68	Yes	
MRW-7	6/29/2017	627.30	629.77	608.30	593.30	15.35	0.22	15.57	12.93	614.37	0.44	21.12	Yes	
MRW-7	7/7/2017	627.30	629.77	608.30	593.30	15.02	0.21	15.23	12.60	614.70	0.33	21.45	Yes	
MRW-7	07/12/17	627.30	629.77	608.30	593.30	14.94	0.21	15.15	12.52	614.78	0.08	21.53	Yes	
MRW-7	7/19/2017	627.30	629.77	608.30	593.30	14.91	0.22	15.13	12.49	614.81	0.03	21.56	Yes	
MRW-7	07/26/17	627.30	629.77	608.30	593.30	15.10	0.26	15.36	12.69	614.61	-0.20	21.37	Yes	
MRW-7	7/27/2017	627.30	629.77	608.30	593.30	15.20	0.25	15.45	12.78	614.52	-0.10	21.27	Yes	
MRW-7	08/04/17	627.30	629.77	608.30	593.30	15.38	0.24	15.62	12.96	614.34	-0.18	21.09	Yes	
MRW-7	8/8/2017	627.30	629.77	608.30	593.30	15.48	0.25	15.73	13.06	614.24	-0.10	20.99	Yes	
MRW-7	08/15/17	627.30	629.77	608.30	593.30	14.96	0.11	15.07	12.51	614.79	0.55	21.51	Yes	
MRW-7	8/22/2017	627.30	629.77	608.30	593.30	14.58	0.42	15.00	12.20	615.10	0.31	21.89	Yes	
MRW-7	08/30/17	627.30	629.77	608.30	593.30	13.71	0.10	13.81	11.26	616.04	0.94	22.76	Yes	
MRW-7	9/7/2017	627.30	629.77	608.30	593.30	13.94	0.28	14.22	11.53	615.77	-0.27	22.53	Yes	System start
MRW-7	09/14/17	627.30	629.77	608.30	593.30	14.47	0.27	14.74	12.06	615.24	-0.53	22.00	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-7	9/19/2017	627.30	629.77	608.30	593.30	14.75	0.74	15.49	12.44	614.86	-0.38	21.72	Yes	
MRW-7	09/27/17	627.30	629.77	608.30	593.30	14.43	0.32	14.75	12.03	615.27	0.41	22.04	Yes	
MRW-7	10/12/2017	627.30	629.77	608.30	593.30	13.54	0.25	13.79	11.12	616.18	0.91	22.93	Yes	
MRW-7	10/26/2017	627.30	629.77	608.30	593.30	13.94	0.32	14.26	11.54	615.76	-0.42	22.53	Yes	
MRW-7	5/14/2018	627.30	629.77	608.30	593.30	14.03	11.31	25.34	13.99	613.31	-2.45	22.44	Yes	
MRW-7	5/15/2018	627.30	629.77	608.30	593.30	16.59	0.21	16.80	14.17	613.13	-0.18	19.88	Yes	
MRW-7	5/23/2018	627.30	629.77	608.30	593.30	16.80	0.28	17.08	14.39	612.91	-0.23	19.67	Yes	
MRW-7	5/24/2018	627.30	629.77	608.30	593.30	16.76	0.24	17.00	14.34	612.96	0.05	19.71	Yes	
MRW-7	5/30/2018	627.30	629.77	608.30	593.30	16.28	0.20	16.48	13.85	613.45	0.49	20.19	Yes	Pumps were too high, increased product thickness
MRW-7	6/8/2018	627.30	629.77	608.30	593.30	15.85	0.19	16.04	13.42	613.88	0.43	20.62	Yes	
MRW-7	6/12/2018	627.30	629.77	608.30	593.30	16.00	0.23	16.23	13.58	613.72	-0.16	20.47	Yes	
MRW-7	6/19/2018	627.30	629.77	608.30	593.30	14.99	0.01	15.00	12.52	614.78	1.06	21.48	Yes	
MRW-7	6/28/2018	627.30	629.77	608.30	593.30	15.25	0.95	16.20	12.98	614.32	-0.46	21.22	Yes	
MRW-7	7/3/2018	627.30	629.77	608.30	593.30	15.32	0.25	15.57	12.90	614.40	0.08	21.15	Yes	
MRW-7	7/10/2018	627.30	629.77	608.30	593.30	15.60	0.25	15.85	13.18	614.12	-0.28	20.87	Yes	
MRW-7	7/25/2018	627.30	629.77	608.30	593.30	16.10	2.00	18.10	14.06	613.24	-0.88	20.37	Yes	Pre-system level check
MRW-7	8/8/2018	627.30	629.77	608.30	593.30	16.90	0.28	17.18	14.49	612.81	-0.43	19.57	Yes	
MRW-7	8/16/2018	627.30	629.77	608.30	593.30	17.25	0.27	17.52	14.84	612.46	-0.35	19.22	Yes	
MRW-7	9/4/2018	627.30	629.77	608.30	593.30	17.15	0.23	17.38	14.73	612.57	0.11	19.32	Yes	
MRW-7	9/17/2018	627.30	629.77	608.30	593.30	17.05	0.15	17.20	14.61	612.69	0.12	19.42	Yes	System Down, Tank Full
MRW-7	10/22/2018	627.30	629.77	608.30	593.30	15.90	0.18	16.08	13.47	613.83	1.14	20.57	Yes	System Up and Running, Tank Pumped out
MRW-7	10/29/2018	627.30	629.77	608.30	593.30	15.69	0.25	15.94	13.27	614.03	0.19	20.78	Yes	
MRW-7	5/2/2019	627.30	629.77	608.30	593.30	12.75	12.25	25.00	12.91	614.39	0.36	23.72	Yes	
MRW-7	5/7/2019	627.30	629.77	608.30	593.30	15.57	0.25	15.82	13.15	614.15	-0.24	20.90	Yes	
MRW-7	5/14/2019	627.30	629.77	608.30	593.30	15.10	0.23	15.33	12.68	614.62	0.47	21.37	Yes	
MRW-7	5/22/2019	627.30	629.77	608.30	593.30	14.36	0.29	14.65	11.95	615.35	0.73	22.11	Yes	
MRW-7	5/28/2019	627.30	629.77	608.30	593.30	13.62	2.32	15.94	11.65	615.65	0.30	22.85	Yes	
MRW-7	6/7/2019	627.30	629.77	608.30	593.30	14.24	0.24	14.48	11.82	615.48	-0.17	22.23	Yes	
MRW-7	6/13/2019	627.30	629.77	608.30	593.30	14.53	0.23	14.76	12.11	615.19	-0.29	21.94	Yes	
MRW-7	6/24/2019	627.30	629.77	608.30	593.30	14.84	0.52	15.36	12.48	614.82	-0.37	21.63	Yes	System down on 10/18 (power line down), restarted 10/21
MRW-7	7/3/2019	627.30	629.77	608.30	593.30	14.82	0.26	15.08	12.41	614.89	0.08	21.65	Yes	
MRW-7	8/14/2019	627.30	629.77	608.30	593.30	16.87	0.25	17.12	14.45	612.85	-2.05	19.60	Yes	
MRW-7	8/28/2019	627.30	629.77	608.30	593.30	17.03	0.29	17.32	14.62	612.68	-0.17	19.44	Yes	
MRW-7	9/12/2019	627.30	629.77	608.30	593.30	16.76	0.16	16.92	14.32	612.98	0.30	19.71	Yes	
MRW-7	9/25/2019	627.30	629.77	608.30	593.30	16.22	0.22	16.44	13.80	613.50	0.53	20.25	Yes	
MRW-7	10/4/2019	627.30	629.77	608.30	593.30	15.60	0.22	15.82	13.18	614.12	0.62	20.87	Yes	
MRW-7	10/7/2019	627.30	629.77	608.30	593.30	15.18	0.23	15.41	12.76	614.54	0.42	21.29	Yes	
MRW-7	10/21/2019	627.30	629.77	608.30	593.30	15.09	0.24	15.33	12.67	614.63	0.09	21.38	Yes	
MRW-7	10/29/2019	627.30	629.77	608.30	593.30	14.92	0.20	15.12	12.49	614.81	0.18	21.55	Yes	
MRW-7	3/31/2020	627.30	629.77	608.30	593.30	10.66	11.24	21.90	10.60	616.70	1.89	25.81	Yes	
MRW-7	4/21/2020	627.30	629.77	608.30	593.30	11.20	13.68	24.88	11.67	615.63	-1.06	25.27	Yes	
MRW-7	4/22/2020	627.30	629.77	608.30	593.30	13.65	2.62	16.27	11.74	615.56	-0.07	22.82	Yes	
MRW-7	4/30/2020	627.30	629.77	608.30	593.30	14.16	0.22	14.38	11.74	615.56	0.01	22.31	Yes	
MRW-7	5/11/2020	627.30	629.77	608.30	593.30	14.40	0.28	14.68	11.99	615.31	-0.25	22.07	Yes	
MRW-7	5/20/2020	627.30	629.77	608.30	593.30	14.75	0.55	15.30	12.40	614.90	-0.41	21.72	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-7	5/26/2020	627.30	629.77	608.30	593.30	15.00	0.29	15.29	12.59	614.71	-0.19	21.47	Yes	
MRW-7	5/28/2020	627.30	629.77	608.30	593.30	14.57	0.26	14.83	12.16	615.14	0.44	21.90	Yes	
MRW-7	6/2/2020	627.30	629.77	608.30	593.30	14.77	0.83	15.60	12.48	614.82	-0.32	21.70	Yes	
MRW-7	6/11/2020	627.30	629.77	608.30	593.30	15.25	0.75	16.00	12.94	614.36	-0.46	21.22	Yes	
MRW-7	6/22/2020	627.30	629.77	608.30	593.30	15.73	1.02	16.75	13.48	613.82	-0.54	20.74	Yes	
MRW-7	7/6/2020	627.30	629.77	608.30	593.30	16.30	0.48	16.78	13.93	613.37	-0.45	20.17	Yes	
MRW-7	7/20/2020	627.30	629.77	608.30	593.30	15.94	0.22	16.16	13.52	613.78	0.42	20.53	Yes	
MRW-7	7/28/2020	627.30	629.77	608.30	593.30	15.80	0.47	16.27	13.43	613.87	0.09	20.67	Yes	
MRW-7	8/12/2020	627.30	629.77	608.30	593.30	15.76	0.24	16.00	13.34	613.96	0.09	20.71	Yes	
MRW-7	8/25/2020	627.30	629.77	608.30	593.30	16.21	0.35	16.56	13.82	613.48	-0.47	20.26	Yes	
MRW-7	9/8/2020	627.30	629.77	608.30	593.30	16.44	0.32	16.76	14.04	613.26	-0.22	20.03	Yes	
MRW-7	9/23/2020	627.30	629.77	608.30	593.30	16.80	0.30	17.10	14.39	612.91	-0.36	19.67	Yes	
MRW-7	10/7/2020	627.30	629.77	608.30	593.30	17.13	0.28	17.41	14.72	612.58	-0.33	19.34	Yes	
MRW-7	10/20/2020	627.30	629.77	608.30	593.30	17.10	0.15	17.25	14.66	612.64	0.06	19.37	Yes	
MRW-7	4/28/2021	627.30	629.77	608.30	593.30	13.01	11.73	24.74	13.06	614.24	1.60	23.46	Yes	
MRW-7	4/29/2021	627.30	629.77	608.30	593.30	15.57	0.24	15.81	13.15	614.15	-0.09	20.90	Yes	
MRW-7	5/6/2021	627.30	629.77	608.30	593.30	15.80	0.28	16.08	13.39	613.91	-0.24	20.67	Yes	
MRW-7	5/13/2021	627.30	629.77	608.30	593.30	16.11	0.26	16.37	13.70	613.60	-0.31	20.36	Yes	
MRW-7	5/19/2021	627.30	629.77	608.30	593.30	16.35	0.28	16.63	13.94	613.36	-0.24	20.12	Yes	
MRW-7	5/24/2021	627.30	629.77	608.30	593.30	15.68	0.24	15.92	13.26	614.04	0.68	20.79	Yes	
MRW-7	5/28/2021	627.30	629.77	608.30	593.30	15.78	0.21	15.99	13.36	613.94	-0.09	20.69	Yes	
MRW-7	6/8/2021	627.30	629.77	608.30	593.30	16.25	0.30	16.55	13.84	613.46	-0.49	20.22	Yes	
MRW-7	6/22/2021	627.30	629.77	608.30	593.30	16.69	0.31	17.00	14.29	613.01	-0.44	19.78	Yes	
MRW-7	7/1/2021	627.30	629.77	608.30	593.30	16.50	0.17	16.67	14.07	613.23	0.22	19.97	Yes	
MRW-7	7/12/2021	627.30	629.77	608.30	593.30	16.91	0.44	17.35	14.53	612.77	-0.47	19.56	Yes	
MRW-7	7/27/2021	627.30	629.77	608.30	593.30	17.30	0.33	17.63	14.90	612.40	-0.37	19.17	Yes	
MRW-7	8/3/2021	627.30	629.77	608.30	593.30	17.44	0.27	17.71	15.03	612.27	-0.13	19.03	Yes	
MRW-7	8/10/2021	627.30	629.77	608.30	593.30	17.53	0.25	17.78	15.11	612.19	-0.09	18.94	Yes	
MRW-7	8/24/2021	627.30	629.77	608.30	593.30	17.94	0.27	18.21	15.53	611.77	-0.41	18.53	Yes	
MRW-7	8/31/2021	627.30	629.77	608.30	593.30	17.75	0.26	18.01	15.34	611.96	0.19	18.72	Yes	
MRW-7	9/14/2021	627.30	629.77	608.30	593.30	17.95	0.23	18.18	15.53	611.77	-0.19	18.52	Yes	
MRW-7	9/28/2021	627.30	629.77	608.30	593.30	17.64	0.27	17.91	15.23	612.07	0.30	18.83	Yes	
MRW-7	10/5/2021	627.30	629.77	608.30	593.30	17.62	0.29	17.91	15.21	612.09	0.02	18.85	Yes	
MRW-7	10/19/2021	627.30	629.77	608.30	593.30	17.59	0.22	17.81	15.17	612.13	0.05	18.88	Yes	
MRW-7	10/28/2021	627.30	629.77	608.30	593.30	17.72	0.28	18.00	15.31	611.99	-0.14	18.75	Yes	
MRW-7	5/2/2022	627.30	629.77	608.30	593.30	14.60	7.74	22.34	13.79	613.51	1.52	21.87	Yes	System startup
MRW-7	5/3/2022	627.30	629.77	608.30	593.30	15.94	0.21	16.15	13.52	613.78	0.28	20.53	Yes	
MRW-7	5/10/2022	627.30	629.77	608.30	593.30	15.13	2.67	17.80	13.23	614.07	0.28	21.34	Yes	
MRW-7	5/19/2022	627.30	629.77	608.30	593.30	12.39	11.55	23.94	12.40	614.90	0.83	24.08	Yes	
MRW-7	6/2/2022	627.30	629.77	608.30	593.30	12.03	12.14	24.17	12.17	615.13	0.23	24.44	Yes	
MRW-7	6/10/2022	627.30	629.77	608.30	593.30	15.29	0.75	16.04	12.98	614.32	-0.81	21.18	Yes	
MRW-7	6/16/2022	627.30	629.77	608.30	593.30	15.73	0.28	16.01	13.32	613.98	-0.34	20.74	Yes	
MRW-7	6/23/2022	627.30	629.77	608.30	593.30	15.96	0.24	16.20	13.54	613.76	-0.22	20.51	Yes	
MRW-7	6/30/2022	627.30	629.77	608.30	593.30	16.04	0.26	16.30	13.63	613.67	-0.08	20.43	Yes	
MRW-7	7/12/2022	627.30	629.77	608.30	593.30	16.55	0.20	16.75	14.12	613.18	-0.50	19.92	Yes	
MRW-7	7/25/2022	627.30	629.77	608.30	593.30	16.97	0.35	17.32	14.58	612.72	-0.45	19.50	Yes	
MRW-7	8/15/2022	627.30	629.77	608.30	593.30	17.50	0.25	17.75	15.08	612.22	-0.51	18.97	Yes	
MRW-7	8/26/2022	627.30	629.77	608.30	593.30	17.48	0.26	17.74	15.07	612.23	0.02	18.99	Yes	
MRW-7	9/8/2022	627.30	629.77	608.30	593.30	17.70	0.29	17.99	15.29	612.01	-0.23	18.77	Yes	
MRW-7	9/19/2022	627.30	629.77	608.30	593.30	17.60	0.28	17.88	15.19	612.11	0.10	18.87	Yes	
MRW-7	10/5/2022	627.30	629.77	608.30	593.30	17.70	0.29	17.99	15.29	612.01	-0.10	18.77	Yes	
MRW-7	10/25/2022	627.30	629.77	608.30	593.30	18.04	0.34	18.38	15.64	611.66	-0.35	18.43	Yes	
MRW-8	10/11/2011	627.30	629.50	610.37	595.37	14.29	12.22	26.51	14.72	612.58	NA	19.84	Yes	Before EFR

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-8	10/12/2011	627.30	629.50	610.37	595.37	13.74	13.97	27.71	14.54	612.76	0.17	20.39	Yes	After EFR (12:25)
MRW-8	10/21/2011	627.30	629.50	610.37	595.37	14.06	13.95	28.01	14.86	612.44	-0.32	20.07	Yes	After EFR (13:30)
MRW-8	10/27/2011	627.30	629.50	610.37	595.37	16.85	3.35	20.20	15.37	611.93	-0.51	17.28	Yes	
MRW-8	10/27/2011	627.30	629.50	610.37	595.37	16.20	5.31	21.51	15.14	612.16	0.23	17.93	Yes	
MRW-8	11/3/2011	627.30	629.50	610.37	595.37	14.69	12.74	27.43	15.23	612.07	-0.09	19.44	Yes	
MRW-8	11/9/2011	627.30	629.50	610.37	595.37	14.89	12.61	27.50	15.40	611.90	-0.17	19.24	Yes	
MRW-8	11/10/2011	627.30	629.50	610.37	595.37	14.66	12.94	27.60	15.24	612.06	0.16	19.47	Yes	
MRW-8	11/10/2011	627.30	629.50	610.37	595.37	18.04	0.30	18.34	15.90	611.40	-0.66	16.09	Yes	
MRW-8	11/10/2011	627.30	629.50	610.37	595.37	17.45	2.50	19.95	15.79	611.51	0.12	16.68	Yes	
MRW-8	11/13/2011	627.30	629.50	610.37	595.37	14.65	12.64	27.29	15.17	612.13	0.62	19.48	Yes	
MRW-8	11/17/2011	627.30	629.50	610.37	595.37	14.89	12.61	27.50	15.40	611.90	-0.23	19.24	Yes	Reading before install of well pumps for Barge system expansion.
MRW-8	11/22/2011	627.30	629.50	610.37	595.37	14.94	12.63	27.57	15.45	611.85	-0.05	19.19	Yes	Connected to System
MRW-8	12/1/2011	627.30	629.50	610.37	595.37	15.09	12.48	27.57	15.57	611.73	-0.12	19.04	Yes	Connected to System
MRW-8	1/4/2012	627.30	629.50	610.37	595.37	15.70	11.77	27.47	16.03	611.27	-0.46	18.43	Yes	Connected to System
MRW-8	2/16/2012	627.30	629.50	610.37	595.37	16.44	10.95	27.39	16.59	610.71	-0.56	17.69	Yes	
MRW-8	3/13/2012	627.30	629.50	610.37	595.37	16.31	11.03	27.34	16.48	610.82	0.11	17.82	Yes	
MRW-8	4/16/2012	627.30	629.50	610.37	595.37	14.84	12.64	27.48	15.36	611.94	1.12	19.29	Yes	
MRW-8	6/11/2012	627.30	629.50	610.37	595.37	12.22	15.77	27.99	13.41	613.89	1.95	21.91	Yes	
MRW-8	6/21/2012	627.30	629.50	610.37	595.37	14.66	0.24	14.90	12.51	614.79	0.90	19.47	Yes	
MRW-8	6/22/2012	627.30	629.50	610.37	595.37	11.08	14.98	26.06	12.10	615.20	0.41	23.05	Yes	
MRW-8	6/28/2012	627.30	629.50	610.37	595.37	14.84	0.17	15.01	12.68	614.62	-0.58	19.29	Yes	
MRW-8	12/17/2012	627.30	629.50	610.37	595.37	16.90	9.38	26.28	16.72	610.58	-4.04	17.23	Yes	
MRW-8	3/25/2013	627.30	629.50	610.37	595.37	18.40	8.25	26.65	17.97	609.33	-1.26	15.73	No	
MRW-8	5/5/2013	627.30	629.50	610.37	595.37	14.96	10.97	25.93	15.12	612.18	2.86	19.17	Yes	
MRW-8	3/17/2015	627.30	629.50	610.37	595.37	16.15	8.15	24.30	15.70	611.60	-0.58	17.98	Yes	
MRW-8	6/25/2015	627.30	629.50	610.37	595.37	16.44	0.22	16.66	14.29	613.01	1.41	17.69	Yes	
MRW-8	7/10/2015	627.30	629.50	610.37	595.37	16.37	0.17	16.54	14.21	613.09	0.08	17.76	Yes	
MRW-8	7/13/2015	627.30	629.50	610.37	595.37	16.36	0.16	16.52	14.19	613.11	0.01	17.77	Yes	
MRW-8	9/10/2015	627.30	629.50	610.37	595.37	16.60	0.24	16.84	14.45	612.85	-0.26	17.53	Yes	
MRW-8	9/24/2015	627.30	629.50	610.37	595.37	16.04	0.18	16.22	13.88	613.42	0.57	18.09	Yes	
MRW-8	10/1/2015	627.30	629.50	610.37	595.37	15.86	0.17	16.03	13.70	613.60	0.18	18.27	Yes	
MRW-8	10/14/2015	627.30	629.50	610.37	595.37	16.25	0.30	16.55	14.11	613.19	-0.42	17.88	Yes	
MRW-8	4/21/2016	627.30	629.50	610.37	595.37	11.31	14.16	25.47	12.15	615.15	1.96	22.82	Yes	Pre system start
MRW-8	5/18/2016	627.30	629.50	610.37	595.37	14.60	0.49	15.09	12.51	614.79	-0.35	19.53	Yes	
MRW-8	5/25/2016	627.30	629.50	610.37	595.37	14.82	0.21	15.03	12.67	614.63	-0.16	19.31	Yes	
MRW-8	5/31/2016	627.30	629.50	610.37	595.37	14.67	0.25	14.92	12.52	614.78	0.14	19.46	Yes	
MRW-8	6/7/2016	627.30	629.50	610.37	595.37	14.38	0.12	14.50	12.21	615.09	0.32	19.75	Yes	
MRW-8	6/14/2016	627.30	629.50	610.37	595.37	14.64	0.20	14.84	12.48	614.82	-0.28	19.49	Yes	
MRW-8	6/21/2016	627.30	629.50	610.37	595.37	14.29	0.22	14.51	12.14	615.16	0.35	19.84	Yes	
MRW-8	7/6/2016	627.30	629.50	610.37	595.37	12.51	11.19	23.70	12.71	614.59	-0.58	21.62	Yes	
MRW-8	7/7/2016	627.30	629.50	610.37	595.37	12.51	11.19	23.70	12.71	614.59	0.00	21.62	Yes	
MRW-8	7/15/2016	627.30	629.50	610.37	595.37	14.60	0.24	14.84	12.45	614.85	0.26	19.53	Yes	
MRW-8	7/25/2016	627.30	629.50	610.37	595.37	15.06	0.30	15.36	12.92	614.38	-0.47	19.07	Yes	
MRW-8	8/26/2016	627.30	629.50	610.37	595.37	15.92	0.37	16.29	13.80	613.50	-0.88	18.21	Yes	
MRW-8	9/2/2016	627.30	629.50	610.37	595.37	16.00	0.22	16.22	13.85	613.45	-0.05	18.13	Yes	
MRW-8	10/3/2016	627.30	629.50	610.37	595.37	16.03	0.25	16.28	13.88	613.42	-0.04	18.10	Yes	
MRW-8	10/6/2016	627.30	629.50	610.37	595.37	16.10	0.22	16.32	13.95	613.35	-0.06	18.03	Yes	
MRW-8	10/13/2016	627.30	629.50	610.37	595.37	16.20	0.25	16.45	14.05	613.25	-0.11	17.93	Yes	
MRW-8	5/2/2017	627.30	629.50	610.37	595.37	11.74	13.72	25.46	12.49	614.81	1.57	22.39	Yes	
MRW-8	5/8/2017	627.30	629.50	610.37	595.37	14.90	0.28	15.18	12.76	614.54	-0.27	19.23	Yes	
MRW-8	5/18/2017	627.30	629.50	610.37	595.37	14.55	0.20	14.75	12.39	614.91	0.37	19.58	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-8	5/25/2017	627.30	629.50	610.37	595.37	13.73	0.20	13.93	11.57	615.73	0.82	20.40	Yes	
MRW-8	5/31/2017	627.30	629.50	610.37	595.37	13.71	0.26	13.97	11.57	615.73	0.01	20.42	Yes	
MRW-8	6/14/2017	627.30	629.50	610.37	595.37	14.60	0.25	14.85	12.45	614.85	-0.89	19.53	Yes	
MRW-8	6/21/2017	627.30	629.50	610.37	595.37	14.98	0.29	15.27	12.84	614.46	-0.39	19.15	Yes	
MRW-8	6/29/2017	627.30	629.50	610.37	595.37	15.13	0.22	15.35	12.98	614.32	-0.13	19.00	Yes	
MRW-8	7/7/2017	627.30	629.50	610.37	595.37	14.80	0.26	15.06	12.66	614.64	0.32	19.33	Yes	
MRW-8	07/12/17	627.30	629.50	610.37	595.37	14.71	0.20	14.91	12.55	614.75	0.10	19.42	Yes	
MRW-8	7/19/2017	627.30	629.50	610.37	595.37	14.66	0.22	14.88	12.51	614.79	0.05	19.47	Yes	
MRW-8	07/26/17	627.30	629.50	610.37	595.37	14.77	0.22	14.99	12.62	614.68	-0.11	19.36	Yes	
MRW-8	7/27/2017	627.30	629.50	610.37	595.37	14.88	0.22	15.10	12.73	614.57	-0.11	19.25	Yes	
MRW-8	08/04/17	627.30	629.50	610.37	595.37	15.09	0.17	15.26	12.93	614.37	-0.20	19.04	Yes	
MRW-8	8/8/2017	627.30	629.50	610.37	595.37	15.13	0.22	15.35	12.98	614.32	-0.05	19.00	Yes	
MRW-8	08/15/17	627.30	629.50	610.37	595.37	14.56	0.21	14.77	12.41	614.89	0.57	19.57	Yes	
MRW-8	8/22/2017	627.30	629.50	610.37	595.37	14.28	0.25	14.53	12.13	615.17	0.27	19.85	Yes	
MRW-8	08/30/17	627.30	629.50	610.37	595.37	13.47	0.18	13.65	11.31	615.99	0.83	20.66	Yes	
MRW-8	9/7/2017	627.30	629.50	610.37	595.37	13.64	0.29	13.93	11.50	615.80	-0.19	20.49	Yes	
MRW-8	09/14/17	627.30	629.50	610.37	595.37	14.11	0.27	14.38	11.97	615.33	-0.47	20.02	Yes	
MRW-8	9/19/2017	627.30	629.50	610.37	595.37	14.38	0.69	15.07	12.33	614.97	-0.36	19.75	Yes	
MRW-8	09/27/17	627.30	629.50	610.37	595.37	14.17	0.25	14.42	12.02	615.28	0.30	19.96	Yes	
MRW-8	10/12/2017	627.30	629.50	610.37	595.37	13.26	0.25	13.51	11.11	616.19	0.91	20.87	Yes	
MRW-8	10/26/2017	627.30	629.50	610.37	595.37	14.69	0.22	14.91	12.54	614.76	-1.42	19.44	Yes	
MRW-8	5/23/2018	627.30	629.50	610.37	595.37	16.50	0.28	16.78	14.36	612.94	-1.82	17.63	Yes	
MRW-8	5/24/2018	627.30	629.50	610.37	595.37	16.46	0.24	16.70	14.31	612.99	0.05	17.67	Yes	
MRW-8	5/30/2018	627.30	629.50	610.37	595.37	16.06	0.22	16.28	13.91	613.39	0.40	18.07	Yes	Pumps were too high, increased product thickness
MRW-8	6/8/2018	627.30	629.50	610.37	595.37	15.78	0.08	15.86	13.60	613.70	0.31	18.35	Yes	
MRW-8	6/12/2018	627.30	629.50	610.37	595.37	15.67	0.25	15.92	13.52	613.78	0.07	18.46	Yes	
MRW-8	6/19/2018	627.30	629.50	610.37	595.37	14.81	0.17	14.98	12.65	614.65	0.88	19.32	Yes	
MRW-8	6/28/2018	627.30	629.50	610.37	595.37	15.18	2.02	17.20	13.41	613.89	-0.77	18.95	Yes	
MRW-8	7/3/2018	627.30	629.50	610.37	595.37	15.09	0.26	15.35	12.95	614.35	0.47	19.04	Yes	
MRW-8	7/10/2018	627.30	629.50	610.37	595.37	15.30	0.28	15.58	13.16	614.14	-0.21	18.83	Yes	
MRW-8	7/25/2018	627.30	629.50	610.37	595.37	15.75	1.63	17.38	13.90	613.40	-0.74	18.38	Yes	Pre-start levels check
MRW-8	8/8/2018	627.30	629.50	610.37	595.37	16.45	0.27	16.72	14.31	612.99	-0.41	17.68	Yes	
MRW-8	8/16/2018	627.30	629.50	610.37	595.37	16.73	0.27	17.00	14.59	612.71	-0.28	17.40	Yes	
MRW-8	9/4/2018	627.30	629.50	610.37	595.37	16.66	0.18	16.84	14.50	612.80	0.09	17.47	Yes	
MRW-8	9/17/2018	627.30	629.50	610.37	595.37	16.53	0.23	16.76	14.38	612.92	0.12	17.60	Yes	System Down, Tank Full
MRW-8	10/22/2018	627.30	629.50	610.37	595.37	16.24	0.20	16.44	14.08	613.22	0.30	17.89	Yes	System Up and Running, Tank Pumped out
MRW-8	10/29/2018	627.30	629.50	610.37	595.37	15.35	0.19	15.54	13.19	614.11	0.89	18.78	Yes	
MRW-8	5/2/2019	627.30	629.50	610.37	595.37	12.48	12.65	25.13	13.00	614.30	0.19	21.65	Yes	
MRW-8	5/7/2019	627.30	629.50	610.37	595.37	16.11	0.35	16.46	13.99	613.31	-0.99	18.02	Yes	
MRW-8	5/14/2019	627.30	629.50	610.37	595.37	15.30	0.01	15.31	13.10	614.20	0.88	18.83	Yes	
MRW-8	5/22/2019	627.30	629.50	610.37	595.37	14.28	0.28	14.56	12.14	615.16	0.96	19.85	Yes	
MRW-8	5/28/2019	627.30	629.50	610.37	595.37	12.03	8.11	20.14	11.57	615.73	0.57	22.10	Yes	
MRW-8	6/7/2019	627.30	629.50	610.37	595.37	14.08	0.26	14.34	11.94	615.36	-0.36	20.05	Yes	

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 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-8	6/13/2019	627.30	629.50	610.37	595.37	14.28	0.27	14.55	12.14	615.16	-0.20	19.85	Yes	
MRW-8	6/24/2019	627.30	629.50	610.37	595.37	14.62	1.25	15.87	12.69	614.61	-0.55	19.51	Yes	System down on 10/18 (power line down), restarted 10/21
MRW-8	7/3/2019	627.30	629.50	610.37	595.37	14.58	0.17	14.75	12.42	614.88	0.27	19.55	Yes	
MRW-8	8/5/2019	627.30	629.50	610.37	595.37	16.02	0.22	16.24	13.87	613.43	-1.45	18.11	Yes	
MRW-8	8/14/2019	627.30	629.50	610.37	595.37	16.29	0.24	16.53	14.14	613.16	-1.73	17.84	Yes	
MRW-8	8/28/2019	627.30	629.50	610.37	595.37	14.58	16.95	17.09	1.58	625.72	10.83	19.55	Yes	
MRW-8	9/12/2019	627.30	629.50	610.37	595.37	14.58	16.26	16.45	1.48	625.82	0.10	19.55	Yes	
MRW-8	9/25/2019	627.30	629.50	610.37	595.37	14.58	15.66	15.91	1.41	625.89	0.07	19.55	Yes	
MRW-8	10/4/2019	627.30	629.50	610.37	595.37	14.58	15.25	15.49	1.32	625.98	0.10	19.55	Yes	
MRW-8	10/7/2019	627.30	629.50	610.37	595.37	14.81	0.22	15.03	12.66	614.64	-11.34	19.32	Yes	
MRW-8	10/21/2019	627.30	629.50	610.37	595.37	15.09	0.22	15.31	12.94	614.36	-0.28	19.04	Yes	
MRW-8	10/29/2019	627.30	629.50	610.37	595.37	14.45	0.20	14.65	12.29	615.01	0.64	19.68	Yes	
MRW-8	3/31/2020	627.30	629.50	610.37	595.37	10.45	14.15	24.60	11.29	616.01	1.00	23.68	Yes	
MRW-8	4/21/2020	627.30	629.50	610.37	595.37	10.91	13.16	24.07	11.54	615.76	-0.25	23.22	Yes	
MRW-8	4/22/2020	627.30	629.50	610.37	595.37	15.13	0.01	15.14	12.93	614.37	-1.39	19.00	Yes	
MRW-8	4/30/2020	627.30	629.50	610.37	595.37	13.93	0.25	14.18	11.78	615.52	1.15	20.20	Yes	
MRW-8	5/11/2020	627.30	629.50	610.37	595.37	14.09	0.27	14.36	11.95	615.35	-0.16	20.04	Yes	
MRW-8	5/20/2020	627.30	629.50	610.37	595.37	14.40	0.49	14.89	12.31	614.99	-0.36	19.73	Yes	
MRW-8	5/26/2020	627.30	629.50	610.37	595.37	14.66	0.29	14.95	12.52	614.78	-0.22	19.47	Yes	
MRW-8	5/28/2020	627.30	629.50	610.37	595.37	14.37	0.26	14.63	12.23	615.07	0.30	19.76	Yes	
MRW-8	6/2/2020	627.30	629.50	610.37	595.37	14.84	1.56	16.40	12.98	614.32	-0.75	19.29	Yes	
MRW-8	6/11/2020	627.30	629.50	610.37	595.37	14.95	0.23	15.18	12.80	614.50	0.18	19.18	Yes	
MRW-8	6/22/2020	627.30	629.50	610.37	595.37	15.38	0.32	15.70	13.25	614.05	-0.45	18.75	Yes	
MRW-8	7/6/2020	627.30	629.50	610.37	595.37	15.81	0.32	16.13	13.68	613.62	-0.43	18.32	Yes	
MRW-8	7/20/2020	627.30	629.50	610.37	595.37	15.47	0.26	15.73	13.33	613.97	0.35	18.66	Yes	
MRW-8	7/28/2020	627.30	629.50	610.37	595.37	15.32	0.28	15.60	13.18	614.12	0.15	18.81	Yes	
MRW-8	8/12/2020	627.30	629.50	610.37	595.37	15.32	0.27	15.59	13.18	614.12	0.00	18.81	Yes	
MRW-8	8/25/2020	627.30	629.50	610.37	595.37	15.66	0.28	15.94	13.52	613.78	-0.34	18.47	Yes	
MRW-8	9/8/2020	627.30	629.50	610.37	595.37	15.83	0.27	16.10	13.69	613.61	-0.17	18.30	Yes	
MRW-8	9/23/2020	627.30	629.50	610.37	595.37	16.21	0.29	16.50	14.07	613.23	-0.38	17.92	Yes	
MRW-8	10/7/2020	627.30	629.50	610.37	595.37	16.50	0.32	16.82	14.37	612.93	-0.30	17.63	Yes	
MRW-8	10/20/2020	627.30	629.50	610.37	595.37	16.47	0.26	16.73	14.33	612.97	0.04	17.66	Yes	
MRW-8	4/28/2021	627.30	629.50	610.37	595.37	12.82	11.54	24.36	13.10	614.20	1.23	21.31	Yes	
MRW-8	4/29/2021	627.30	629.50	610.37	595.37	16.21	0.01	16.22	14.01	613.29	-0.91	17.92	Yes	
MRW-8	5/6/2021	627.30	629.50	610.37	595.37	15.62	0.26	15.88	13.48	613.82	0.54	18.51	Yes	
MRW-8	5/13/2021	627.30	629.50	610.37	595.37	15.86	0.26	16.12	13.72	613.58	-0.24	18.27	Yes	
MRW-8	5/19/2021	627.30	629.50	610.37	595.37	15.99	0.29	16.28	13.85	613.45	-0.14	18.14	Yes	
MRW-8	5/24/2021	627.30	629.50	610.37	595.37	15.55	0.24	15.79	13.40	613.90	0.45	18.58	Yes	
MRW-8	5/28/2021	627.30	629.50	610.37	595.37	15.55	0.25	15.80	13.40	613.90	0.00	18.58	Yes	
MRW-8	6/8/2021	627.30	629.50	610.37	595.37	15.88	0.30	16.18	13.74	613.56	-0.34	18.25	Yes	
MRW-8	6/22/2021	627.30	629.50	610.37	595.37	16.32	0.29	16.61	14.18	613.12	-0.44	17.81	Yes	
MRW-8	7/1/2021	627.30	629.50	610.37	595.37	16.07	0.23	16.30	13.92	613.38	0.26	18.06	Yes	
MRW-8	7/12/2021	627.30	629.50	610.37	595.37	16.42	0.31	16.73	14.29	613.01	-0.37	17.71	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-8	7/27/2021	627.30	629.50	610.37	595.37	16.79	0.28	17.07	14.65	612.65	-0.36	17.34	Yes	
MRW-8	8/3/2021	627.30	629.50	610.37	595.37	16.89	0.26	17.15	14.75	612.55	-0.10	17.24	Yes	
MRW-8	8/10/2021	627.30	629.50	610.37	595.37	16.96	0.29	17.25	14.82	612.48	-0.08	17.17	Yes	
MRW-8	8/24/2021	627.30	629.50	610.37	595.37	17.32	0.28	17.60	15.18	612.12	-0.36	16.81	Yes	
MRW-8	8/31/2021	627.30	629.50	610.37	595.37	17.20	0.25	17.45	15.05	612.25	0.13	16.93	Yes	
MRW-8	9/14/2021	627.30	629.50	610.37	595.37	17.32	0.27	17.59	15.18	612.12	-0.12	16.81	Yes	
MRW-8	9/28/2021	627.30	629.50	610.37	595.37	17.11	0.22	17.33	14.96	612.34	0.22	17.02	Yes	
MRW-8	10/5/2021	627.30	629.50	610.37	595.37	17.10	0.28	17.38	14.96	612.34	0.00	17.03	Yes	
MRW-8	10/19/2021	627.30	629.50	610.37	595.37	17.09	0.22	17.31	14.94	612.36	0.02	17.04	Yes	
MRW-8	10/28/2021	627.30	629.50	610.37	595.37	17.19	0.26	17.45	15.05	612.25	-0.11	16.94	Yes	
MRW-8	5/2/2022	627.30	629.50	610.37	595.37	15.46	8.89	24.35	15.17	612.13	-0.12	18.67	Yes	System startup
MRW-8	5/3/2022	627.30	629.50	610.37	595.37	17.04	0.04	17.08	14.85	612.45	0.32	17.09	Yes	
MRW-8	5/10/2022	627.30	629.50	610.37	595.37	14.38	0.39	14.77	12.26	615.04	2.58	19.75	Yes	
MRW-8	5/19/2022	627.30	629.50	610.37	595.37	12.28	12.07	24.35	12.67	614.63	-0.41	21.85	Yes	
MRW-8	6/2/2022	627.30	629.50	610.37	595.37	11.86	12.78	24.64	12.41	614.89	0.27	22.27	Yes	
MRW-8	6/10/2022	627.30	629.50	610.37	595.37	15.25	0.33	15.58	13.12	614.18	-0.72	18.88	Yes	
MRW-8	6/16/2022	627.30	629.50	610.37	595.37	15.49	0.29	15.78	13.35	613.95	-0.23	18.64	Yes	
MRW-8	6/23/2022	627.30	629.50	610.37	595.37	15.75	0.25	16.00	13.60	613.70	-0.25	18.38	Yes	
MRW-8	6/30/2022	627.30	629.50	610.37	595.37	15.75	0.27	16.02	13.61	613.69	0.00	18.38	Yes	
MRW-8	7/12/2022	627.30	629.50	610.37	595.37	16.20	0.20	16.40	14.04	613.26	-0.43	17.93	Yes	
MRW-8	7/25/2022	627.30	629.50	610.37	595.37	16.55	0.31	16.86	14.42	612.88	-0.37	17.58	Yes	
MRW-8	8/15/2022	627.30	629.50	610.37	595.37	17.04	0.20	17.24	14.88	612.42	-0.47	17.09	Yes	
MRW-8	8/26/2022	627.30	629.50	610.37	595.37	16.98	0.23	17.21	14.83	612.47	0.05	17.15	Yes	
MRW-8	9/8/2022	627.30	629.50	610.37	595.37	17.20	0.28	17.48	15.06	612.24	-0.23	16.93	Yes	
MRW-8	9/19/2022	627.30	629.50	610.37	595.37	17.08	0.26	17.34	14.94	612.36	0.12	17.05	Yes	
MRW-8	10/5/2022	627.30	629.50	610.37	595.37	17.21	0.27	17.48	15.07	612.23	-0.13	16.92	Yes	
MRW-8	10/25/2022	627.30	629.50	610.37	595.37	17.48	0.33	17.81	15.35	611.95	-0.28	16.65	Yes	
MRW-9	10/11/2011	626.50	629.04	609.50	594.50	13.22	13.68	26.90	13.62	612.88	NA	21.32	Yes	Reading before install of well pumps for Barge system expansion.
MRW-9	10/12/2011	626.50	629.04	609.50	594.50	13.12	13.78	26.90	13.54	612.96	0.08	21.42	Yes	Connected to System
MRW-9	10/21/2011	626.50	629.04	609.50	594.50	13.44	13.40	26.84	13.78	612.72	-0.24	21.10	Yes	Connected to System
MRW-9	10/27/2011	626.50	629.04	609.50	594.50	13.55	13.34	26.89	13.88	612.62	-0.10	20.99	Yes	Connected to System
MRW-9	2/16/2012	626.50	629.04	609.50	594.50	15.90	9.95	25.85	15.50	611.00	-1.62	18.64	Yes	
MRW-9	3/13/2012	626.50	629.04	609.50	594.50	15.70	10.25	25.95	15.36	611.14	0.14	18.84	Yes	
MRW-9	4/16/2012	626.50	629.04	609.50	594.50	14.34	11.86	26.20	14.35	612.15	1.01	20.20	Yes	
MRW-9	6/11/2012	626.50	629.04	609.50	594.50	11.95	14.21	26.16	12.46	614.04	1.89	22.59	Yes	
MRW-9	6/21/2012	626.50	629.04	609.50	594.50	14.10	1.05	15.15	11.79	614.71	0.68	20.44	Yes	
MRW-9	6/22/2012	626.50	629.04	609.50	594.50	14.10	0.23	14.33	11.61	614.89	0.18	20.44	Yes	
MRW-9	6/28/2012	626.50	629.04	609.50	594.50	14.24	0.29	14.53	11.76	614.74	-0.15	20.30	Yes	
MRW-9	12/17/2012	626.50	629.04	609.50	594.50	16.05	7.90	23.95	15.21	611.29	-3.45	18.49	Yes	
MRW-9	3/25/2013	626.50	629.04	609.50	594.50	17.20	8.29	25.49	16.44	610.06	-1.23	17.34	Yes	
MRW-9	5/5/2013	626.50	629.04	609.50	594.50	14.45	10.72	25.17	14.21	612.29	2.23	20.09	Yes	
MRW-9						Skimmer pump removed from well 7/7/15								
MRW-9	7/13/2013	626.50	629.04	609.50	594.50	15.13	0.02	15.15	12.59	613.91	1.62	19.41	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-9	3/17/2015	626.50	629.04	609.50	594.50	17.02	0.11	17.13	14.50	612.00	-1.91	17.52	Yes	
MRW-9	6/25/2015	626.50	629.04	609.50	594.50	15.61	0.04	15.65	13.08	613.42	1.43	18.93	Yes	
MRW-9	9/10/2015	626.50	629.04	609.50	594.50	15.34	0.02	15.36	12.80	613.70	0.27	19.20	Yes	
MRW-9	10/1/2015	626.50	629.04	609.50	594.50	14.64	0.02	14.66	12.10	614.40	0.70	19.90	Yes	
MRW-9	10/14/2015	626.50	629.04	609.50	594.50	14.99	0.02	15.01	12.45	614.05	-0.35	19.55	Yes	
MRW-9	5/18/2016	626.50	629.04	609.50	594.50	13.15	0.01	13.16	10.61	615.89	1.84	21.39	Yes	
MRW-9	5/23/2016	626.50	629.04	609.50	594.50	NP	0.00	13.29	10.75	615.75	-0.14	21.25	Yes	
MRW-9	5/31/2016	626.50	629.04	609.50	594.50	13.22	0.01	13.23	10.68	615.82	0.07	21.32	Yes	
MRW-9	6/14/2016	626.50	629.04	609.50	594.50	13.10	0.01	13.11	10.56	615.94	0.12	21.44	Yes	
MRW-9	6/21/2016	626.50	629.04	609.50	594.50	12.79	0.02	12.81	10.25	616.25	0.31	21.75	Yes	
MRW-9	7/6/2016	626.50	629.04	609.50	594.50	13.46	0.01	13.47	10.92	615.58	-0.67	21.08	Yes	
MRW-9	7/7/2016	626.50	629.04	609.50	594.50	13.51	0.01	13.52	10.97	615.53	-0.05	21.03	Yes	
MRW-9	7/15/2016	626.50	629.04	609.50	594.50	NP	0.00	13.13	10.59	615.91	0.38	21.41	Yes	
MRW-9	7/25/2016	626.50	629.04	609.50	594.50	NP	0.00	13.41	10.87	615.63	-0.28	21.13	Yes	
MRW-9	8/26/2016	626.50	629.04	609.50	594.50	NP	0.00	14.29	11.75	614.75	-0.88	20.25	Yes	
MRW-9	9/2/2016	626.50	629.04	609.50	594.50	NP	0.00	14.37	11.83	614.67	-0.08	20.17	Yes	
MRW-9	10/3/2016	626.50	629.04	609.50	594.50	NP	0.00	14.44	11.90	614.60	-0.07	20.10	Yes	
MRW-9	10/6/2016	626.50	629.04	609.50	594.50	NP	0.00	14.53	11.99	614.51	-0.09	20.01	Yes	
MRW-9	10/13/2016	626.50	629.04	609.50	594.50	NP	0.00	14.62	12.08	614.42	-0.09	19.92	Yes	
MRW-9	5/2/2017	626.50	629.04	609.50	594.50	NP	0.00	13.69	11.15	615.35	0.93	20.85	Yes	
MRW-9	5/8/2017	626.50	629.04	609.50	594.50	NP	0.00	13.66	11.12	615.38	0.03	20.88	Yes	
MRW-9	5/18/2017	626.50	629.04	609.50	594.50	NP	0.00	13.36	10.82	615.68	0.30	21.18	Yes	
MRW-9	5/25/2017	626.50	629.04	609.50	594.50	NP	0.00	12.50	9.96	616.54	0.86	22.04	Yes	
MRW-9	5/31/2017	626.50	629.04	609.50	594.50	NP	0.00	12.46	9.92	616.58	0.04	22.08	Yes	
MRW-9	9/7/2017	626.50	629.04	609.50	594.50	NP	0.00	12.20	9.66	616.84	0.26	22.34	Yes	
MRW-9	9/14/2017	626.50	629.04	609.50	594.50	NP	0.00	12.01	9.47	617.03	0.19	22.53	Yes	
MRW-9	9/19/2017	626.50	629.04	609.50	594.50	NP	0.00	13.02	10.48	616.02	-1.01	21.52	Yes	
MRW-9	9/27/2017	626.50	629.04	609.50	594.50	NP	0.00	12.81	10.27	616.23	0.21	21.73	Yes	
MRW-9	5/14/2018	626.50	629.04	609.50	594.50	NP	0.00	15.18	12.64	613.86	-2.37	19.36	Yes	
MRW-9	5/23/2018	626.50	629.04	609.50	594.50	NP	0.00	15.28	12.74	613.76	-0.10	19.26	Yes	
MRW-9	5/30/2018	626.50	629.04	609.50	594.50	NP	0.00	14.85	12.31	614.19	0.43	19.69	Yes	
MRW-9	6/8/2018	626.50	629.04	609.50	594.50	NP	0.00	14.47	11.93	614.57	0.38	20.07	Yes	
MRW-9	8/8/2018	626.50	629.04	609.50	594.50	NP	0.00	15.05	12.51	613.99	-0.58	19.49	Yes	
MRW-9	5/28/2019	626.50	629.04	609.50	594.50	NP	0.00	12.89	10.35	616.15	2.16	21.65	Yes	
MRW-9	6/13/2019	626.50	629.04	609.50	594.50	NP	0.00	13.09	10.55	615.95	-0.20	21.45	Yes	
MRW-9	7/3/2019	626.50	629.04	609.50	594.50	NP	0.00	13.37	10.83	615.67	-0.28	21.17	Yes	
MRW-9	9/12/2019	626.50	629.04	609.50	594.50	NP	0.00	14.93	12.39	614.11	-1.56	19.61	Yes	
MRW-9	9/25/2019	626.50	629.04	609.50	594.50	NP	0.00	14.34	11.80	614.70	0.59	20.20	Yes	
MRW-9	10/4/2019	626.50	629.04	609.50	594.50	NP	0.00	14.01	11.47	615.03	0.33	20.53	Yes	
MRW-9	10/8/2019	626.50	629.04	609.50	594.50	NP	0.00	13.56	11.02	615.48	0.45	20.98	Yes	
MRW-9	10/29/2019	626.50	629.04	609.50	594.50	NP	0.00	13.14	10.60	615.90	0.42	21.40	Yes	
MRW-9	3/31/2020	626.50	629.04	609.50	594.50	NP	0.00	12.48	9.94	616.56	0.66	22.06	Yes	
MRW-9	4/21/2020	626.50	629.04	609.50	594.50	NP	0.00	12.57	10.03	616.47	-0.09	21.97	Yes	
MRW-9	4/22/2020	626.50	629.04	609.50	594.50	NP	0.00	12.60	10.06	616.44	-0.03	21.94	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-9	4/30/2020	626.50	629.04	609.50	594.50	NP	0.00	12.66	10.12	616.38	-0.06	21.88	Yes	
MRW-9	5/11/2020	626.50	629.04	609.50	594.50	NP	0.00	12.78	10.24	616.26	-0.12	21.76	Yes	
MRW-9	5/20/2020	626.50	629.04	609.50	594.50	NP	0.00	13.16	10.62	615.88	-0.38	21.38	Yes	
MRW-9	5/26/2020	626.50	629.04	609.50	594.50	NP	0.00	13.35	10.81	615.69	-0.19	21.19	Yes	
MRW-9	6/11/2020	626.50	629.04	609.50	594.50	NP	0.00	13.61	11.07	615.43	-0.26	20.93	Yes	
MRW-9	6/22/2020	626.50	629.04	609.50	594.50	NP	0.00	14.06	11.52	614.98	-0.45	20.48	Yes	
MRW-9	7/6/2020	626.50	629.04	609.50	594.50	NP	0.00	14.50	11.96	614.54	-0.44	20.04	Yes	
MRW-9	7/20/2020	626.50	629.04	609.50	594.50	NP	0.00	14.21	11.67	614.83	0.29	20.33	Yes	
MRW-9	8/12/2020	626.50	629.04	609.50	594.50	NP	0.00	14.05	11.51	614.99	0.16	20.49	Yes	
MRW-9	8/25/2020	626.50	629.04	609.50	594.50	NP	0.00	14.34	11.80	614.70	-0.29	20.20	Yes	
MRW-9	9/8/2020	626.50	629.04	609.50	594.50	NP	0.00	14.52	11.98	614.52	-0.18	20.02	Yes	
MRW-9	9/23/2020	626.50	629.04	609.50	594.50	NP	0.00	14.88	12.34	614.16	-0.36	19.66	Yes	
MRW-9	4/28/2021	626.50	629.04	609.50	594.50	NP	0.00	14.33	11.79	614.71	0.55	20.21	Yes	
MRW-9	5/6/2021	626.50	629.04	609.50	594.50	NP	0.00	14.45	11.91	614.59	-0.12	20.09	Yes	
MRW-9	5/13/2021	626.50	629.04	609.50	594.50	NP	0.00	14.65	12.11	614.39	-0.20	19.89	Yes	
MRW-9	5/19/2021	626.50	629.04	609.50	594.50	NP	0.00	14.81	12.27	614.23	-0.16	19.73	Yes	
MRW-9	5/24/2021	626.50	629.04	609.50	594.50	NP	0.00	14.40	11.86	614.64	0.41	20.14	Yes	
MRW-9	5/28/2021	626.50	629.04	609.50	594.50	NP	0.00	14.39	11.85	614.65	0.01	20.15	Yes	
MRW-9	6/8/2021	626.50	629.04	609.50	594.50	NP	0.00	14.63	12.09	614.41	-0.24	19.91	Yes	
MRW-9	6/22/2021	626.50	629.04	609.50	594.50	NP	0.00	15.06	12.52	613.98	-0.43	19.48	Yes	
MRW-9	7/1/2021	626.50	629.04	609.50	594.50	NP	0.00	14.84	12.30	614.20	0.22	19.70	Yes	
MRW-9	7/12/2021	626.50	629.04	609.50	594.50	NP	0.00	15.18	12.64	613.86	-0.34	19.36	Yes	
MRW-9	7/27/2021	626.50	629.04	609.50	594.50	NP	0.00	15.50	12.96	613.54	-0.32	19.04	Yes	
MRW-9	8/3/2021	626.50	629.04	609.50	594.50	NP	0.00	15.59	13.05	613.45	-0.09	18.95	Yes	
MRW-9	8/10/2021	626.50	629.04	609.50	594.50	NP	0.00	15.68	13.14	613.36	-0.09	18.86	Yes	
MRW-9	8/24/2021	626.50	629.04	609.50	594.50	NP	0.00	16.01	13.47	613.03	-0.33	18.53	Yes	
MRW-9	8/31/2021	626.50	629.04	609.50	594.50	NP	0.00	15.92	13.38	613.12	0.09	18.62	Yes	
MRW-9	9/14/2021	626.50	629.04	609.50	594.50	NP	0.00	16.05	13.51	612.99	-0.13	18.49	Yes	
MRW-9	9/28/2021	626.50	629.04	609.50	594.50	NP	0.00	15.85	13.31	613.19	0.20	18.69	Yes	
MRW-9	10/19/2021	626.50	629.04	609.50	594.50	NP	0.00	15.81	13.27	613.23	0.04	18.73	Yes	
MRW-9	10/28/2021	626.50	629.04	609.50	594.50	NP	0.00	15.93	13.39	613.11	-0.12	18.61	Yes	
MRW-9	5/3/2022	626.50	629.04	609.50	594.50	14.92	0.13	15.05	12.41	614.09	0.98	19.62	Yes	
MRW-9	5/10/2022	626.50	629.04	609.50	594.50	14.66	0.11	14.77	12.14	614.36	0.26	19.88	Yes	
MRW-9	5/19/2022	626.50	629.04	609.50	594.50	13.96	0.10	14.06	11.44	615.06	0.70	20.58	Yes	
MRW-9	6/2/2022	626.50	629.04	609.50	594.50	13.69	0.10	13.79	11.17	615.33	0.27	20.85	Yes	
MRW-9	6/10/2022	626.50	629.04	609.50	594.50	14.09	0.10	14.19	11.57	614.93	-0.40	20.45	Yes	
MRW-9	6/16/2022	626.50	629.04	609.50	594.50	14.34	0.08	14.42	11.82	614.68	-0.25	20.20	Yes	
MRW-9	6/23/2022	626.50	629.04	609.50	594.50	14.51	0.10	14.61	11.99	614.51	-0.17	20.03	Yes	
MRW-9	6/30/2022	626.50	629.04	609.50	594.50	14.50	0.05	14.55	11.97	614.53	0.02	20.04	Yes	
MRW-9	7/12/2022	626.50	629.04	609.50	594.50	15.92	0.01	15.93	13.38	613.12	-1.41	18.62	Yes	
MRW-9	7/25/2022	626.50	629.04	609.50	594.50	15.25	0.10	15.35	12.73	613.77	0.65	19.29	Yes	
MRW-9	8/15/2022	626.50	629.04	609.50	594.50	15.64	0.08	15.72	13.12	613.38	-0.39	18.90	Yes	
MRW-9	8/26/2022	626.50	629.04	609.50	594.50	15.64	0.08	15.72	13.12	613.38	0.00	18.90	Yes	
MRW-9	9/8/2022	626.50	629.04	609.50	594.50	15.85	0.08	15.93	13.33	613.17	-0.21	18.69	Yes	
MRW-9	9/19/2022	626.50	629.04	609.50	594.50	15.76	0.07	15.83	13.24	613.26	0.09	18.78	Yes	
MRW-9	10/5/2022	626.50	629.04	609.50	594.50	15.85	0.08	15.93	13.33	613.17	-0.09	18.69	Yes	
MRW-9	10/25/2022	626.50	629.04	609.50	594.50	16.16	0.08	16.24	13.64	612.86	-0.31	18.38	Yes	
MRW-10	10/11/2011	626.90	629.30	609.85	594.85	13.41	13.39	26.80	13.89	613.01	NA	21.04	Yes	Before EFR
MRW-10	10/12/2011	626.90	629.30	609.85	594.85	13.37	13.54	26.91	13.88	613.02	0.01	21.08	Yes	After EFR
MRW-10	10/21/2011	626.90	629.30	609.85	594.85	13.56	13.42	26.98	14.04	612.86	-0.16	20.89	Yes	
MRW-10	10/27/2011	626.90	629.30	609.85	594.85	13.75	13.15	26.90	14.18	612.72	-0.13	20.70	Yes	
MRW-10	11/7/2011	626.90	629.30	609.85	594.85	16.18	3.72	19.90	14.58	612.32	-0.40	18.27	Yes	
MRW-10	11/9/2011	626.90	629.30	609.85	594.85	14.32	11.62	25.94	14.42	612.48	0.16	20.13	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations	
MRW-10	11/10/2011	626.90	629.30	609.85	594.85	14.55	11.55	26.10	14.63	612.27	-0.21	19.90	Yes		
MRW-10	11/10/2011	626.90	629.30	609.85	594.85	20.35	0.17	20.52	17.99	608.91	-3.35	14.10	No		
MRW-10	11/13/2011	626.90	629.30	609.85	594.85	14.21	11.93	26.14	14.37	612.53	3.61	20.24	Yes	Reading before install of well pumps for Barge system expansion.	
MRW-10	11/17/2011	626.90	629.30	609.85	594.85	14.44	11.91	26.35	14.60	612.30	-0.23	20.01	Yes	Connected to System	
MRW-10	11/22/2011	626.90	629.30	609.85	594.85	14.48	11.94	26.42	14.65	612.25	-0.05	19.97	Yes	Connected to System - LNAPL**measure	
MRW-10	12/1/2011	626.90	629.30	609.85	594.85	14.64	11.80	26.44	14.78	612.12	-0.13	19.81	Yes	Connected to System - LNAPL**measure	
MRW-10	2/16/2012	626.90	629.30	609.85	594.85	16.06	9.99	26.05	15.81	611.09	-1.03	18.39	Yes		
MRW-10	3/13/2012	626.90	629.30	609.85	594.85	15.95	10.16	26.11	15.73	611.17	0.07	18.50	Yes		
MRW-10	4/16/2012	626.90	629.30	609.85	594.85	14.60	11.76	26.36	14.73	612.17	1.01	19.85	Yes		
MRW-10	6/11/2012	626.90	629.30	609.85	594.85	12.18	14.43	26.61	12.88	614.02	1.85	22.27	Yes		
MRW-10	6/21/2012	626.90	629.30	609.85	594.85	15.20	0.06	15.26	12.81	614.09	0.07	19.25	Yes		
MRW-10	6/22/2012	626.90	629.30	609.85	594.85	11.24	4.49	15.73	9.80	617.10	3.01	23.21	Yes		
MRW-10	6/28/2012	626.90	629.30	609.85	594.85	14.55	0.25	14.80	12.20	614.70	-2.40	19.90	Yes		
MRW-10	12/17/2012	626.90	629.30	609.85	594.85	16.33	8.68	25.01	15.79	611.11	-3.59	18.12	Yes		
MRW-10	3/25/2013	626.90	629.30	609.85	594.85	17.44	7.61	25.05	16.68	610.22	-0.88	17.01	Yes		
MRW-10	5/5/2013	626.90	629.30	609.85	594.85	14.72	11.09	25.81	14.70	612.20	1.97	19.73	Yes		
MRW-10	3/17/2015	626.90	629.30	609.85	594.85	17.30	0.15	17.45	14.93	611.97	1.74	17.15	Yes	Connected to System	
MRW-10	6/25/2015	626.90	629.30	609.85	594.85	15.85	0.17	16.02	13.49	613.41	1.45	20.73	Yes		
MRW-10	7/13/2015	626.90	629.30	609.85	594.85	15.74	0.15	15.89	13.37	613.53	1.33	18.71	Yes		
MRW-10								Skimmer pump removed from well 8/19/15							
MRW-10	9/10/2015	626.90	629.30	609.85	594.85	15.60	0.03	15.63	13.21	613.69	0.17	21.73	Yes		
MRW-10	10/1/2015	626.90	629.30	609.85	594.85	14.90	0.02	14.92	12.50	614.40	0.98	19.55	Yes		
MRW-10	10/14/2015	626.90	629.30	609.85	594.85	15.25	0.02	15.27	12.85	614.05	-0.35	22.73	Yes		
MRW-10	4/21/2016	626.90	629.30	609.85	594.85	13.48	0.14	13.62	11.11	615.79	2.27	20.97	Yes		
MRW-10	5/18/2016	626.90	629.30	609.85	594.85	13.37	0.15	13.52	11.00	615.90	0.10	21.08	Yes		
MRW-10	5/23/2016	626.90	629.30	609.85	594.85	13.52	0.12	13.64	11.15	615.75	-0.14	20.93	Yes		
MRW-10	5/31/2016	626.90	629.30	609.85	594.85	13.43	0.14	13.57	11.06	615.84	0.09	21.02	Yes		
MRW-10	6/14/2016	626.90	629.30	609.85	594.85	13.33	0.13	13.46	10.96	615.94	0.10	21.12	Yes		
MRW-10	6/21/2016	626.90	629.30	609.85	594.85	13.02	0.14	13.16	10.65	616.25	0.31	21.43	Yes		
MRW-10	7/6/2016	626.90	629.30	609.85	594.85	13.69	0.10	13.79	11.31	615.59	-0.66	20.76	Yes		
MRW-10	7/7/2016	626.90	629.30	609.85	594.85	13.75	0.01	13.76	11.35	615.55	-0.04	20.70	Yes		
MRW-10	7/15/2016	626.90	629.30	609.85	594.85	13.36	0.32	13.68	11.03	615.87	0.12	21.09	Yes		
MRW-10	7/25/2016	626.90	629.30	609.85	594.85	13.64	0.12	13.76	11.27	615.63	-0.24	20.81	Yes		
MRW-10	8/26/2016	626.90	629.30	609.85	594.85	14.56	0.10	14.66	12.18	614.72	-0.92	19.89	Yes		
MRW-10	9/2/2016	626.90	629.30	609.85	594.85	14.61	0.11	14.72	12.23	614.67	-0.05	19.84	Yes		
MRW-10	10/3/2016	626.90	629.30	609.85	594.85	14.69	0.11	14.80	12.31	614.59	-0.08	19.76	Yes		
MRW-10	10/6/2016	626.90	629.30	609.85	594.85	14.77	0.12	14.89	12.40	614.50	-0.16	19.68	Yes		
MRW-10	10/13/2016	626.90	629.30	609.85	594.85	14.87	0.10	14.97	12.49	614.41	-0.10	19.58	Yes		
MRW-10	5/2/2017	626.90	629.30	609.85	594.85	13.85	0.21	14.06	11.50	615.40	1.00	20.60	Yes		
MRW-10	5/8/2017	626.90	629.30	609.85	594.85	12.34	1.51	13.85	10.26	616.64	1.23	22.11	Yes		
MRW-10	5/18/2017	626.90	629.30	609.85	594.85	13.54	0.23	13.77	11.19	615.71	-0.92	20.91	Yes		
MRW-10	5/25/2017	626.90	629.30	609.85	594.85	12.69	0.25	12.94	10.34	616.56	0.85	21.76	Yes		
MRW-10	5/31/2017	626.90	629.30	609.85	594.85	12.63	0.25	12.88	10.28	616.62	0.06	21.82	Yes		
MRW-10	9/7/2017	626.90	629.30	609.85	594.85	12.39	0.27	12.66	10.05	616.85	0.24	22.06	Yes		
MRW-10	9/14/2017	626.90	629.30	609.85	594.85	12.80	0.22	13.02	10.45	616.45	-0.40	21.65	Yes		
MRW-10	9/19/2017	626.90	629.30	609.85	594.85	13.20	0.30	13.50	10.86	616.04	-0.42	21.25	Yes		
MRW-10	9/27/2017	626.90	629.30	609.85	594.85	12.98	0.23	13.21	10.63	616.27	0.24	21.47	Yes		
MRW-10	5/14/2018	626.90	629.30	609.85	594.85	15.28	0.32	15.60	12.95	613.95	-2.32	19.17	Yes		
MRW-10	5/15/2018	626.90	629.30	609.85	594.85	15.66	0.29	15.95	13.32	613.58	-0.37	18.79	Yes		
MRW-10	5/23/2018	626.90	629.30	609.85	594.85	15.44	0.31	15.75	13.11	613.79	0.22	19.01	Yes		
MRW-10	5/30/2018	626.90	629.30	609.85	594.85	15.01	0.32	15.33	12.68	614.22	0.43	19.44	Yes		
MRW-10	6/8/2018	626.90	629.30	609.85	594.85	14.63	0.32	14.95	12.30	614.60	0.38	19.82	Yes		

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-10	7/3/2018	626.90	629.30	609.85	594.85	14.16	0.07	14.23	11.78	615.12	0.52	20.29	Yes	
MRW-10	8/8/2018	626.90	629.30	609.85	594.85	15.30	0.08	15.38	12.92	613.98	-1.14	19.15	Yes	
MRW-10	8/16/2018	626.90	629.30	609.85	594.85	15.55	0.08	15.63	13.17	613.73	-0.25	18.90	Yes	
MRW-10	9/4/2018	626.90	629.30	609.85	594.85	15.51	0.07	15.58	13.13	613.77	0.04	18.94	Yes	
MRW-10	10/2/2018	626.90	629.30	609.85	594.85	15.25	0.07	15.32	12.87	614.03	0.26	19.20	Yes	
MRW-10	10/29/2018	626.90	629.30	609.85	594.85	14.29	0.09	14.38	11.91	614.99	0.96	20.16	Yes	
MRW-10	5/2/2019	626.90	629.30	609.85	594.85	14.50	0.17	14.67	12.14	614.76	-0.23	19.95	Yes	
MRW-10	5/14/2019	626.90	629.30	609.85	594.85	13.97	0.09	14.06	11.59	615.31	0.55	20.48	Yes	
MRW-10	5/28/2019	626.90	629.30	609.85	594.85	13.08	0.13	13.21	10.71	616.19	0.88	21.37	Yes	
MRW-10	6/13/2019	626.90	629.30	609.85	594.85	13.29	0.14	13.43	10.92	615.98	-0.21	21.16	Yes	
MRW-10	6/24/2019	626.90	629.30	609.85	594.85	13.78	0.13	13.91	11.41	615.49	-0.49	20.67	Yes	
MRW-10	7/3/2019	626.90	629.30	609.85	594.85	13.59	0.10	13.69	11.21	615.69	0.20	20.86	Yes	
MRW-10	7/25/2019	626.90	629.30	609.85	594.85	14.68	0.12	14.80	12.31	614.59	-1.09	19.77	Yes	
MRW-10	8/28/2019	626.90	629.30	609.85	594.85	15.31	0.13	15.44	12.94	613.96	-0.63	19.14	Yes	
MRW-10	9/12/2019	626.90	629.30	609.85	594.85	15.15	0.12	15.27	12.78	614.12	0.16	19.30	Yes	
MRW-10	9/25/2019	626.90	629.30	609.85	594.85	14.74	0.13	14.87	12.37	614.53	0.41	19.71	Yes	
MRW-10	10/4/2019	626.90	629.30	609.85	594.85	14.22	0.13	14.35	11.85	615.05	0.52	20.23	Yes	
MRW-10	10/8/2019	626.90	629.30	609.85	594.85	13.79	0.11	13.90	11.41	615.49	0.43	20.66	Yes	
MRW-10	10/29/2019	626.90	629.30	609.85	594.85	13.31	0.31	13.62	10.98	615.92	0.44	21.14	Yes	
MRW-10	3/31/2020	626.90	629.30	609.85	594.85	12.63	0.32	12.95	10.30	616.60	0.68	21.82	Yes	
MRW-10	4/21/2020	626.90	629.30	609.85	594.85	12.73	0.34	13.07	10.40	616.50	-0.10	21.72	Yes	
MRW-10	4/22/2020	626.90	629.30	609.85	594.85	12.76	0.32	13.08	10.43	616.47	-0.03	21.69	Yes	
MRW-10	4/30/2020	626.90	629.30	609.85	594.85	12.82	0.32	13.14	10.49	616.41	-0.06	21.63	Yes	
MRW-10	5/11/2020	626.90	629.30	609.85	594.85	12.99	0.15	13.14	10.62	616.28	-0.13	21.46	Yes	
MRW-10	5/20/2020	626.90	629.30	609.85	594.85	13.38	0.08	13.46	11.00	615.90	-0.37	21.07	Yes	
MRW-10	5/26/2020	626.90	629.30	609.85	594.85	13.57	0.11	13.68	11.19	615.71	-0.20	20.88	Yes	
MRW-10	6/11/2020	626.90	629.30	609.85	594.85	13.83	0.11	13.94	11.45	615.45	-0.26	20.62	Yes	
MRW-10	6/22/2020	626.90	629.30	609.85	594.85	14.28	0.11	14.39	11.90	615.00	-0.45	20.17	Yes	
MRW-10	7/6/2020	626.90	629.30	609.85	594.85	14.71	0.12	14.83	12.34	614.56	-0.43	19.74	Yes	
MRW-10	7/20/2020	626.90	629.30	609.85	594.85	14.43	0.10	14.53	12.05	614.85	0.28	20.02	Yes	
MRW-10	8/12/2020	626.90	629.30	609.85	594.85	14.28	0.08	14.36	11.90	615.00	0.15	20.17	Yes	
MRW-10	8/25/2020	626.90	629.30	609.85	594.85	14.57	0.07	14.64	12.19	614.71	-0.29	19.88	Yes	
MRW-10	9/8/2020	626.90	629.30	609.85	594.85	14.74	0.08	14.82	12.36	614.54	-0.17	19.71	Yes	
MRW-10	9/23/2020	626.90	629.30	609.85	594.85	15.11	0.09	15.20	12.73	614.17	-0.37	19.34	Yes	
MRW-10	4/28/2021	626.90	629.30	609.85	594.85	14.45	0.51	14.96	12.16	614.74	0.57	20.00	Yes	
MRW-10	5/6/2021	626.90	629.30	609.85	594.85	14.59	0.51	15.10	12.30	614.60	-0.14	19.86	Yes	
MRW-10	5/13/2021	626.90	629.30	609.85	594.85	14.79	0.51	15.30	12.50	614.40	-0.20	19.66	Yes	
MRW-10	5/19/2021	626.90	629.30	609.85	594.85	14.92	0.51	15.43	12.63	614.27	-0.13	19.53	Yes	
MRW-10	5/24/2021	626.90	629.30	609.85	594.85	14.55	0.51	15.06	12.26	614.64	0.37	19.90	Yes	
MRW-10	5/28/2021	626.90	629.30	609.85	594.85	14.51	0.51	15.02	12.22	614.68	0.04	19.94	Yes	
MRW-10	6/8/2021	626.90	629.30	609.85	594.85	14.76	0.51	15.27	12.47	614.43	-0.25	19.69	Yes	
MRW-10	6/22/2021	626.90	629.30	609.85	594.85	15.19	0.51	15.70	12.90	614.00	-0.43	19.26	Yes	
MRW-10	7/1/2021	626.90	629.30	609.85	594.85	14.97	0.52	15.49	12.68	614.22	0.22	19.48	Yes	
MRW-10	7/12/2021	626.90	629.30	609.85	594.85	15.30	0.52	15.82	13.01	613.89	-0.33	19.15	Yes	
MRW-10	7/27/2021	626.90	629.30	609.85	594.85	15.62	0.53	16.15	13.33	613.57	-0.32	18.83	Yes	
MRW-10	8/3/2021	626.90	629.30	609.85	594.85	15.72	0.53	16.25	13.43	613.47	-0.10	18.73	Yes	
MRW-10	8/10/2021	626.90	629.30	609.85	594.85	15.81	0.51	16.32	13.52	613.38	-0.09	18.64	Yes	
MRW-10	8/24/2021	626.90	629.30	609.85	594.85	16.13	0.52	16.65	13.84	613.06	-0.32	18.32	Yes	
MRW-10	8/31/2021	626.90	629.30	609.85	594.85	16.06	0.51	16.57	13.77	613.13	0.07	18.39	Yes	
MRW-10	9/14/2021	626.90	629.30	609.85	594.85	16.19	0.52	16.71	13.90	613.00	-0.13	18.26	Yes	
MRW-10	9/28/2021	626.90	629.30	609.85	594.85	15.99	0.51	16.50	13.70	613.20	0.20	18.46	Yes	
MRW-10	10/19/2021	626.90	629.30	609.85	594.85	15.95	0.51	16.46	13.66	613.24	0.04	18.50	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin



Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comments/Observations
MRW-10	10/28/2021	626.90	629.30	609.85	594.85	16.06	0.52	16.58	13.77	613.13	-0.11	18.39	Yes	
MRW-10	5/3/2022	626.90	629.30	609.85	594.85	14.58	2.57	17.15	12.73	614.17	1.04	19.87	Yes	
MRW-10	5/10/2022	626.90	629.30	609.85	594.85	14.74	0.81	15.55	12.51	614.39	0.22	19.71	Yes	
MRW-10	5/19/2022	626.90	629.30	609.85	594.85	14.04	0.81	14.85	11.81	615.09	0.70	20.41	Yes	
MRW-10	6/2/2022	626.90	629.30	609.85	594.85	13.90	0.22	14.12	11.55	615.35	0.27	20.55	Yes	
MRW-10	6/10/2022	626.90	629.30	609.85	594.85	14.30	0.21	14.51	11.95	614.95	-0.40	20.15	Yes	
MRW-10	6/16/2022	626.90	629.30	609.85	594.85	14.54	1.24	15.78	12.41	614.49	-0.46	19.91	Yes	
MRW-10	6/23/2022	626.90	629.30	609.85	594.85	14.75	0.23	14.98	12.40	614.50	0.01	19.70	Yes	
MRW-10	6/30/2022	626.90	629.30	609.85	594.85	14.75	0.19	14.94	12.39	614.51	0.01	19.70	Yes	
MRW-10	7/12/2022	626.90	629.30	609.85	594.85	15.00	0.55	15.55	12.72	614.18	-0.33	19.45	Yes	
MRW-10	7/25/2022	626.90	629.30	609.85	594.85	15.47	0.35	15.82	13.15	613.75	-0.43	18.98	Yes	
MRW-10	8/15/2022	626.90	629.30	609.85	594.85	15.89	0.30	16.19	13.55	613.35	-0.41	18.56	Yes	0.1 gallons bailed
MRW-10	8/26/2022	626.90	629.30	609.85	594.85	15.90	0.24	16.14	13.55	613.35	0.00	18.55	Yes	0.1 gallons bailed
MRW-10	9/8/2022	626.90	629.30	609.85	594.85	16.10	0.25	16.35	13.75	613.15	-0.20	18.35	Yes	0.1 gallons bailed
MRW-10	9/19/2022	626.90	629.30	609.85	594.85	15.95	0.26	16.21	13.61	613.29	0.15	18.50	Yes	
MRW-10	10/5/2022	626.90	629.30	609.85	594.85	16.09	0.23	16.32	13.74	613.16	-0.13	18.36	Yes	
MRW-10	10/25/2022	626.90	629.30	609.85	594.85	16.40	0.25	16.65	14.05	612.85	-0.31	18.05	Yes	
MWBD-1	10/9/2013	603.06	606.04	598.06	583.06	NP	0.00	5.15	2.17	600.89	NA	17.83	Yes	
MWBD-1	5/20/2014	603.06	606.04	598.06	583.06	NP	0.00	3.35	0.37	602.69	1.80	19.63	Yes	
MWBD-1	10/29/2014	603.06	606.04	598.06	583.06	NP	0.00	4.61	1.63	601.43	-1.26	18.37	Yes	
MWBD-1	5/4/2015	603.06	606.04	598.06	583.06	NP	0.00	4.95	1.97	601.09	-0.34	18.03	Yes	
MWBD-1	10/6/2015	603.06	606.04	598.06	583.06	NP	0.00	4.48	1.50	601.56	0.47	18.50	Yes	
MWBD-1	5/23/2016	603.06	606.04	598.06	583.06	NP	0.00	4.84	1.86	601.20	-0.36	18.14	Yes	
MWBD-1	10/3/2016	603.06	606.04	598.06	583.06	NP	0.00	4.73	1.75	601.31	0.11	18.25	Yes	
MWBD-1	6/29/2017	603.06	606.04	598.06	583.06	NP	0.00	3.98	1.00	602.06	0.75	19.00	Yes	
MWBD-1	5/26/2020	603.06	606.04	598.06	583.06	NP	0.00	3.69	0.71	602.35	0.29	19.29	Yes	
MWBD-1	5/24/2021	603.06	606.04	598.06	583.06	NP	0.00	4.50	1.52	601.54	-0.81	18.48	Yes	
MWBD-1	6/3/2022	603.06	606.04	598.06	583.06	NP	0.00	4.19	1.21	601.85	0.31	18.79	Yes	
MWBD-1D	10/29/2014	603.12	605.42	553.12	548.12	NP	0.00	3.63	1.33	601.79	NA	53.67	Yes	
MWBD-1D	5/5/2015	603.12	605.42	553.12	548.12	NP	0.00	4.18	1.88	601.24	-0.55	53.12	Yes	
MWBD-1D	10/6/2015	603.12	605.42	553.12	548.12	NP	0.00	3.69	1.39	601.73	0.49	53.61	Yes	
MWBD-1D	5/23/2016	603.12	605.42	553.12	548.12	NP	0.00	3.82	1.52	601.60	-0.13	53.48	Yes	
MWBD-1D	10/3/2016	603.12	605.42	553.12	548.12	NP	0.00	3.70	1.40	601.72	0.12	53.60	Yes	
MWBD-1D	6/14/2017	603.12	605.42	553.12	548.12	NP	0.00	3.47	1.17	601.95	0.23	53.83	Yes	
MWBD-1D	10/3/2017	603.12	605.42	553.12	548.12	NP	0.00	2.66	0.36	602.76	0.81	54.64	Yes	
MWBD-1D	6/18/2018	603.12	605.42	553.12	548.12	NP	0.00	3.45	1.15	601.97	-0.79	53.85	Yes	
MWBD-1D	10/8/2018	603.12	605.42	553.12	548.12	NP	0.00	3.33	1.03	602.09	0.12	53.97	Yes	
MWBD-1D	6/3/2019	603.12	605.42	553.12	548.12	NP	0.00	3.15	0.85	602.27	0.18	54.15	Yes	
MWBD-1D	10/2/2019	603.12	605.42	553.12	548.12	NP	0.00	3.10	0.80	602.32	0.05	54.20	Yes	
MWBD-1D	5/26/2020	603.12	605.42	553.12	548.12	NP	0.00	3.70	1.40	601.72	-0.60	53.60	Yes	
MWBD-1D	10/5/2020	603.12	605.42	553.12	548.12	NP	0.00	3.91	1.61	601.51	-0.21	53.39	Yes	
MWBD-1D	5/24/2021	603.12	605.42	553.12	548.12	NP	0.00	3.79	1.49	601.63	0.12	53.51	Yes	
MWBD-1D	6/2/2022	603.12	605.42	553.12	548.12	NP	0.00	3.61	1.31	601.81	0.18	53.69	Yes	
MWBD-1D	11/2/2022	603.12	605.42	553.12	548.12	NP	0.00	4.60	2.30	600.82	-0.99	52.70	Yes	
MWBD-1DD	6/18/2018	603.12	605.31	538.12	535.12	NP	0.00	1.35	-0.84	603.96	NA	68.84	Yes	
MWBD-1DD	10/8/2018	603.12	605.31	538.12	535.12	NP	0.00	2.40	0.21	602.91	-1.05	67.79	Yes	
MWBD-1DD	6/3/2019	603.12	605.31	538.12	535.12	NP	0.00	1.95	-0.24	603.36	0.45	68.24	Yes	
MWBD-1DD	10/2/2019	603.12	605.31	538.12	535.12	NP	0.00	2.04	-0.15	603.27	-0.09	68.15	Yes	
MWBD-1DD	5/26/2020	603.12	605.31	538.12	535.12	NP	0.00	5.19	3.00	600.12	-3.15	65.00	Yes	
MWBD-1DD	5/24/2021	603.12	605.31	538.12	535.12	NP	0.00	2.64	0.45	602.67	2.55	67.55	Yes	
MWBD-1DD	6/1/2022	603.12	605.31	538.12	535.12	NP	0.00	2.32	0.13	602.99	0.32	67.87	Yes	

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Superior Terminal, WI



Well ID	Date	GROUNDWATER ANALYTICAL DATA							
MW-17	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-17	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-17	8/29/1990	Duplicate	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	--	< 1.0
MW-17	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-17	1/31/1991	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	--
MW-17	1/31/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 2.0
MW-17	7/10/1991	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 1.0
MW-17	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-17	1/8/1992	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 2.0
MW-17	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-17	10/14/1992	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-17	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-17	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-17	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-17	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-17	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	1.1	< 2.0
MW-17	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	2.7	3.7
MW-17	4/22/1996		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	10/8/1996		< 0.5	< 2	< 2	--	< 2	2	< 3
MW-17	4/29/1997		--	--	--	< 1	--	--	--
MW-17	11/5/1997		1.8	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	11/5/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-17	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-17	4/26/2000		< 0.15	0.653	< 0.30	--	0.523	1.12	1.858
MW-17	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-17	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-17	10/23/2001	Duplicate	< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-17	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	0.32	0.47
MW-17	4/23/2002	Duplicate	< 0.13	< 0.22	< 0.16	--	0.25	< 0.29	< 0.23
MW-17	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-17	11/7/2002	Duplicate	< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-17	11/7/2002		< 0.13	< 0.22	< 0.16	< 0.46	0.25	< 0.29	< 0.23
MW-17	4/15/2003	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/21/2003	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	1.2	< 3.0
MW-17	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/20/2004	Duplicate	4	1.9	< 4.0	--	3.9	1.6	4.8
MW-17	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	1.2	< 3.0
MW-17	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/17/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	5/7/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-17	7/30/2014		< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.0	< 1.5
MW-17	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-17	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Superior Terminal, WI



MW-17	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-17	8/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MW-31	7/11/1989		3	< 2.0	--	--	< 2.0	--	< 4.0
MW-31	8/29/1990		< 2.0	5	--	--	32	--	29
MW-31	1/31/1991		< 1.0	< 1.0	< 20	--	3	--	3
MW-31	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-31	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-31	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-31	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-31	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-31	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	4/22/1996		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	10/8/1996		< 0.5	< 2	< 2	--	< 2	< 2.0	< 3.0
MW-31	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-31	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-31	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-31	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-31	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-31	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-31	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-31	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-31	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	4/30/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/1/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/28/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/17/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MW-31	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MW-31	5/7/2013		< 1.0	< 1.0	< 2.0	< 4.0	< 1.0	< 1.0	< 3.1
MW-31	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-31	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-31	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-31	8/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MW-33	8/6/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-33	1/8/1992	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 1.0
MW-33	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-33	10/14/1992	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-33	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-33	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-33	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Superior Terminal, WI



MW-33	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	4.8
MW-33	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-33	10/8/1996		0.6	< 2	< 2	--	< 2	< 2.0	< 3
MW-33	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-33	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-33	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-33	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-33	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-33	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-33	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-33	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-33	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-33	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-33	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-33	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-33	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	2.2	< 3.0
MW-33	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	2.2	< 3.0
MW-33	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	4/30/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-33	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	5/9/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-33	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-33	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-33	8/3/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MW-49D	10/4/2016		14.8	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-49D	6/13/2017		1	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-49D	10/4/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-49D	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-49D	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-49D	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-49D	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-49D	8/2/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MW-49S	10/4/2016		21	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-49S	6/13/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-49S	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-49S	6/19/2018		1,660	< 6.6	< 6.4	< 10.1	33.4	< 13.2	< 19.4
MW-49S	10/10/2018		1,970	1.7	< 1.6	< 2.5	37.2	< 3.3	4
MW-49S	6/6/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-49S	10/1/2019		15.5	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-49S	5/27/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-49S	10/5/2020		6.4	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-49S	5/25/2021		2.8	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-49S	10/4/2021		0.32	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-49S	6/1/2022		< 1	< 1	< 1	< 1	< 1	< 0	< 0
MW-49S	11/1/2022		4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWAST-3	10/22/2003		1,100	140	< 4.0	--	420	172	460
MWAST-3	4/21/2004		790	98	72	--	240	111	280
MWAST-3	11/18/2004		85.1	6.1	< 4.0	--	23	12.6	28.9
MWAST-3	4/20/2005		374	6.7	< 1.0	--	22.1	17.4	32.3
MWAST-3	10/11/2005		180	21	3.5	--	30	22.9	47.1
MWAST-3	10/26/2006		650	< 10.0	< 10.0	--	121	71.1	103

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Superior Terminal, WI



MWAST-3	5/1/2007		657	59	< 20.0	--	118	47	108
MWAST-3	10/2/2007		578	39	< 5.0	--	86	31.3	63.6
MWAST-3	5/9/2008		528	8.7	< 5.0	--	155	20.8	72.4
MWAST-3	10/30/2008		223	1.6	< 1.0	--	12.8	2.5	7.7
MWAST-3	10/12/2011		521	47	< 1.0	13.3	181	28.1	88.2
MWAST-3	10/2/2012		207	17.8	< 1.0	--	49.9	16.7	37.9
MWAST-3	6/20/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWAST-3	8/2/2022		1,020	14	6.4	19.8	285	46.3	171.1
MWAST-9	10/22/2003		1,400	170	< 4.0	--	1,300	141	550
MWAST-9	4/21/2004		160	13	7.7	--	110	8.3	33
MWAST-9	11/18/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWAST-9	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWAST-9	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWAST-9	10/26/2006		80	6.8	< 1.0	--	71.3	11.9	39.3
MWAST-9	5/1/2007		11.5	< 1.0	< 4.0	--	9	< 1.0	< 3.0
MWAST-9	10/2/2007		53.4	3.1	< 1.0	--	32.9	4.6	13.9
MWAST-9	5/9/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWAST-9	10/30/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWAST-9	10/12/2011		20.4	< 1.0	< 1.0	< 4.0	3.2	4.5	< 3.0
MWAST-9	10/2/2012		93.2	7	< 1.0	--	98.7	11.5	49.9
MWAST-9	8/3/2022	Duplicate	21.6	2.8	< 1.0	0.63	13.8	2.49	5.9
MWAST-9	8/3/2022		22.3	2.8	< 1.0	0.66	14.2	2.6	6.1
MWBD-1	10/10/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	--	< 1.0
MWBD-1	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MWBD-1	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1	10/6/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1	10/6/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1	8/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWBD-1D	10/29/2014		167	< 0.39	< 0.48	0.46	< 0.39	< 0.84	< 1.2
MWBD-1D	2/19/2015		185	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1D	5/5/2015	Duplicate	205	< 0.79	< 0.97	< 0.85	< 0.78	< 1.67	< 2.5
MWBD-1D	5/5/2015		207	< 0.79	< 0.97	< 0.85	< 0.78	< 1.67	< 2.5
MWBD-1D	10/6/2015	Duplicate	212	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1D	10/6/2015		210	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1D	5/25/2016		213	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1D	10/5/2016		193	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWBD-1D	6/14/2017		156	< 0.79	< 0.97	< 0.85	< 0.78	< 1.67	< 2.5
MWBD-1D	10/4/2017		148	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MWBD-1D	6/20/2018		123	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWBD-1D	10/11/2018		110	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWBD-1D	6/5/2019		91.5	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWBD-1D	10/2/2019		88.2	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWBD-1D	5/27/2020		72	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWBD-1D	10/5/2020		71.3	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWBD-1D	5/25/2021		64.1	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWBD-1D	10/5/2021		68.5	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWBD-1D	6/2/2022		58.6	< 1	< 1	< 1	< 1	< 0	< 0
MWBD-1D	11/2/2022		61.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWBD-1DD	6/20/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWBD-1DD	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWBD-1DD	6/6/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWBD-1DD	10/2/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWBD-1DD	8/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWM-2	10/22/2003		720	25	< 4.0	--	18	4.8	8.4
MWM-2	4/21/2004		20	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Superior Terminal, WI



MWM-2	10/11/2005		0.76	< 1.0	< 1.0	--	< 1.0	< 1.0	0.74
MWM-2	10/25/2006		1,980	54.5	< 1.0	--	52.2	10.7	32.8
MWM-2	5/1/2007		3.6	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWM-2	10/2/2007		5.2	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-2	5/9/2008		708	35.3	< 5.0	--	23	< 5.0	< 15.0
MWM-2	10/29/2008		183	9.5	< 1.0	--	7	< 1.0	3.8
MWM-2	10/12/2011		1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-2	10/2/2012		244	14.5	< 1.0	--	19.9	4	7.4
MWM-2	10/1/2013		523	22.4	< 1.9	--	13.1	< 3.5	5.8
MWM-2	10/30/2014		< 0.40	< 0.39	< 0.48	0.53	< 0.39	< 0.84	< 1.2
MWM-2	10/5/2015		12.8	0.86	< 0.48	< 0.42	0.49	< 0.84	< 1.2
MWM-2	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-2	8/2/2022		259	42.5	0.87	5.9	21	5.1	8.3
MWM-2D	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-2D	6/13/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MWM-2D	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MWM-2D	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWM-2D	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWM-2D	6/5/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWM-2D	10/2/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-2D	5/27/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-2D	10/5/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-2D	5/26/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-2D	10/4/2021		< 0.14	< 0.33	< 0.32	< 0.51	0.26	< 0.67	< 0.47
MWM-2D	6/1/2022		< 1	< 1	< 1	< 1	0.3	< 0	< 0
MWM-2D	11/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWOW-2	10/22/2003	Duplicate	6.2	1.2	< 4.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/22/2003		6.8	1.5	< 4.0	--	< 1.0	1.1	< 3.0
MWOW-2	4/21/2004	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	4/21/2004		6.3	< 1.0	< 4.0	--	< 1.0	3.5	< 3.0
MWOW-2	11/18/2004	Duplicate	101	59	< 4.0	--	3	62.6	7.8
MWOW-2	11/18/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	4/20/2005	Duplicate	5.9	0.53	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	4/20/2005		5.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/11/2005	Duplicate	3.8	0.5	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/11/2005		3.8	0.42	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/24/2006	Duplicate	0.79	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/24/2006		0.61	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	5/1/2007	Duplicate	1.7	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	5/1/2007		1.3	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/1/2007		1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MWOW-2	5/9/2008	Duplicate	3	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	5/9/2008		3	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/29/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/12/2011		1.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWOW-2	10/2/2013		0.38	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MWOW-2	5/4/2015		0.54	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWOW-2	10/6/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWOW-2	10/4/2016		0.44	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWOW-2	8/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWOW-2D	6/20/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWOW-2D	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWOW-2D	6/5/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWOW-2D	10/2/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWOW-2D	5/27/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWOW-2D	10/5/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Superior Terminal, WI



MWOW-2D	5/25/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWOW-2D	10/4/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWOW-2D	6/1/2022		< 1	< 1	< 1	< 1	< 1	< 0	< 0
MWOW-2D	11/2/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWRR-1	10/22/2003		57	< 1.0	< 4.0	--	1.2	< 1.0	< 3.0
MWRR-1	4/21/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	11/18/2004		306	< 1.0	< 4.0	--	1.7	< 1.0	1.6
MWRR-1	4/20/2005		6.7	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	10/11/2005		0.29	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	5/1/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	10/1/2007		316	< 1.0	< 1.0	--	13.9	< 1.0	< 3.0
MWRR-1	5/9/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	10/29/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWRR-1	10/12/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MWRR-1	10/2/2012		154	< 1.0	< 1.0	--	2.4	< 1.0	< 3.0
MWRR-1	10/3/2013		216	< 0.34	0.44	--	0.93	< 0.69	< 1.0
MWRR-1	5/5/2015		29.8	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWRR-1	10/6/2015		164	< 0.39	0.61	< 0.42	0.89	< 0.84	< 1.2
MWRR-1	10/5/2016		< 0.4	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWRR-1	8/1/2022		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0	< 0
MWRR-1D	6/28/2018		50.6	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MWRR-1D	7/25/2018		460	< 1.6	< 1.6	< 2.5	7	< 3.3	4.8
MWRR-1D	10/11/2018		510	< 3.3	< 3.2	< 5.1	7.2	< 6.7	4.7
MWRR-1D	6/5/2019		451	< 0.33	2.8	< 0.51	7	< 0.67	4.1
MWRR-1D	10/2/2019		464	< 3.3	< 3.2	< 5.1	7.3	< 6.7	< 8.4
MWRR-1D	5/27/2020		391	< 1.6	2.7	< 2.5	6.8	< 3.3	< 6.9
MWRR-1D	10/6/2020		229	< 1.3	< 1.3	< 2.0	3.6	< 2.7	< 3.8
MWRR-1D	5/25/2021		444	< 1.6	2.9	< 2.5	7.8	< 3.3	< 8.1
MWRR-1D	10/5/2021		302	< 0.82	1.6	< 1.3	5.6	< 1.68	4.3
MWRR-1D	6/2/2022		< 1	< 1	< 1	< 1	< 1	< 0	< 0
MWRR-1D	11/2/2022		270	< 1.0	1.7	< 1.0	5.1	< 0	3.8

Notes:

Results in bold exceed applicable action limits

NGV = No given value

< = Not detected at or above indicated laboratory reporting limit

J = Laboratory estimated concentration above adjusted method detection limit and below adjusted reporting limit

ug/L = micrograms/liter