

2018 Progress Report

July 2018 - December 2018

*Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin*

FID No. 816009920

BRRTS Nos.

Amoco Terminal (02-16-000331)

Amoco Barge Dock - Manifold & AST Area (02-16-117873)

Amoco Barge Dock - OW Separator & Loading Rack (02-16-297979)

Antea Group Project No. WISUP191

January 21, 2019

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2018 Progress Report July - December

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2904 Winter Street, Superior, Wisconsin*

1.0 INTRODUCTION AND SCOPE OF WORK

Antea®Group is submitting this progress report documenting work conducted from July 1 to December 31, 2018 at the Former Amoco Terminal in Superior, Wisconsin. The Former Amoco Terminal is comprised of two investigation areas and three open Bureau for Remediation and Redevelopment Tracking System (BRRTS) numbers, the Terminal (BRRTS #02-16-000331) and the Barge Dock (BRRTS #02-16-117873 and BRRTS #02-16-297979).

The work conducted from July through December 2018 included:

- **Well Installation**
 - Vertical delineation monitoring well MWRR-1D was replaced with MWRR-1DR on July 20, 2018. Total well depth was approximately 53 feet below ground surface (bgs). Well installation methods and materials are discussed in **Section 3.1**. The boring log and well construction diagram are included in **Appendix B**.
- **Groundwater Monitoring**
 - 61 wells were gauged and 41 wells were sampled from July to December 2018. Groundwater samples, four duplicates and four trip blanks were submitted for laboratory analysis for Petroleum Volatile Organic Compounds (PVOC) and naphthalene. Well gauging data and analytical results are presented in **Section 3.2 and 3.3**, respectively.
- **Barge Dock Phase II LNAPL Skimming System Operation, Maintenance, and Monitoring**
 - The seasonal Phase II system operated with limited interruption from July 1 through October 29, 2018. System data was collected during 11 monitoring events. Phase II system data is presented in **Section 3.4**.
- **LNAPL Recovery MWAST-4, MRW-3, LRMW-7**
 - LNAPL recovery from MWAST-4 was on a gauge and bail schedule to monitor LNAPL thickness changes until September 4, 2018. At this time, a seasonal skimming pump was placed into the well that tied into the Phase II System, and pumped to a dedicated 1,000 gallon LNAPL holding tank. The system operated with limited interruption until seasonal shutdown on October 29, 2018. System data is presented in **Section 3.5**.
 - A seasonal skimming pump tied into the Phase II System operated in well MRW-3 with no interruption from July 1 through September 4, 2018. System data was collected during 7 monitoring events during the operating period. The skimming pump was removed from the well on September 4, 2018 after insufficient product recovery was observed. MRW-3 system data is presented in **Section 3.6**.

- A second seasonal skimming pump tied into the Phase II System operated in well LRMW-7 with no interruption from July 1 through September 4, 2018. System data was collected during 7 monitoring events during the operating period. The skimming pump was removed from the well on September 4, 2018 after insufficient product recovery was observed. LRMW-7 system data is presented in **Section 3.7**.

2.0 SITE LOCATION AND BACKGROUND

The Former Amoco Terminal is located at 2904 Winter Street in Superior, Wisconsin in the SE ¼ of the NE ¼ of Section 16, Township 49 North Range 14 West, Douglas County, Wisconsin (NE ¼ Sec. 25, SE ¼, Sec. 24 T24N, R20E). The Former Amoco Terminal is comprised of two investigation areas and three open BRRTS numbers, the Terminal (BRRTs #02-16-000331) and the Barge Dock (BRRTs #02-16-117873, #02-16-297979). The Terminal, which was sold by BP in July 2000 to RRS Inc., is 42 acres and has been subdivided for commercial redevelopment. The Barge Dock is 12.6 acres, 3,900 feet long by approximately 125 to 136 feet wide; the two investigation areas are separated by Winter Street and a railroad right of way. An area properties map illustrating the location of the Terminal and Barge Dock and identifying the associated BRRTS numbers for properties surrounding the site is included as **Figure 1**. An area properties map illustrating the location of BRRTS numbers for the properties which make up the Former Amoco Terminal site is included as **Figure 2**. A map illustrating the wells included in the Amoco Barge Dock, Manifold & Above Ground Storage Tank (AST) Area, and the Terminal Area is included as **Figure 3**.

The Former Amoco Terminal has been used for petroleum storage by various entities since the late 1800s. It had been used by Amoco and its predecessors as a bulk petroleum storage terminal from 1908 until 1999. The Terminal formerly operated with ASTs, an office building, truck loading racks, and a railroad loading rack. The Barge Dock formerly included underground and above ground pipelines, a manifold, ASTs, a railroad loading rack, and a truck loading rack. All Amoco petroleum operations ceased at both properties in 1999. Tanks, rail lines, and loading racks have been removed. Pipelines that connected the Barge Dock to the Terminal have also been removed within the boundaries of the Barge Dock property.

Building expansion in the Winter Business Park (**Figure 1**) has included the construction of FedEx Ground Package System at 2929 Halvor Lane in October 2005, and construction of Guardian Pest Solutions at 3131 Halvor Lane in July of 2016. Four additional terminal land parcels remain available for commercial and/or industrial development as of December 2018 within the limits of the Former Amoco Terminal south of Winter Street.

3.0 ACTIVITIES COMPLETED JULY THROUGH DECEMBER, 2018

3.1 Well Installation

During groundwater sampling events in June 2018, newly constructed well MWRR-1D was found to have a well casing obstruction at approximately 30 feet bgs. The blockage was investigated with a SeeSnake camera reel, and it

was found that the well casing was bent at this depth, and sediments may have been entering the well and preventing bailer passage. The well was replaced with MWRR-1DR on July 20, 2018. Groundwater re-sampling analytical results and a well log and construction detail for MWRR-1DR are included in **Appendix A** and **B**, respectively.

Antea Group contracted Cascade Environmental (Cascade) to re-install vertical delineation well MWRR-1DR on the C. Reiss Coal parcel. The well was offset approximately 5 feet to the west of the previous well installation location, and is shown in **Figure 3**. Installation followed requirements set forth in Wisconsin DNR Chapter NR 141.

The vertical delineation well was installed by Cascade on July 20, 2018 using a Boart Longyear 200c Mini Sonic drill rig with a six-inch boring diameter. Fresh water collected from the city was used as a drilling fluid. The well was completed using two-inch diameter Schedule 40 PVC casing with approximately 2.5 feet of stick up completion. It has a three foot screened interval with 0.010-inch slot Schedule 40 PVC. Installation for the well included a sand filter pack placed in the annular space surrounding the well screen to two feet above the well screen, and a five-foot thick layer of bentonite chips was placed above the sand pack. Bentonite grout was placed in the well annulus above the bentonite chip layer and continued to near the ground surface. The surface seal was completed with bentonite chips from 0-5 feet bgs, and a native soil cap was placed on top of the bentonite. The total well depth was 53 feet bgs.

Soil samples were continuously collected and placed in plastic disposable sample bags for every five feet of material below ground surface to the total depth. Soils were screened for organic vapors every 2.5 feet using a photoionization detector (PID). The PID results are included in the soil boring log and well diagram in **Appendix B**.

The well was developed using surge and purge methods after a minimum waiting period of 12 hours after installation. A total of 10 times the total well volume was bailed from the well, or until the well produced sediment free water. Development fluids were stored in a dedicated groundwater collection tank pending removal from the site by Future Environmental for proper disposal (**Section 3.8**). Groundwater sampling methods and analytical results are provided in **Section 3.3**.

3.2 Groundwater Gauging and Bailing

During multiple field mobilization events from July through October 2018, 7 of the 33 Terminal area wells, 44 of the 68 wells on the Amoco Barge Dock – Manifold & AST area, and 10 of the 16 North Barge Dock area wells were gauged for depth to water and depth to LNAPL (**Table 1**). Wells that had LNAPL thicknesses of approximately 0.5 feet or greater were also bailed. All groundwater and LNAPL measurements were obtained using a water level indicator or an oil/water interface probe, which indicates when a probe is in contact with the groundwater or LNAPL in the well. All measurements were recorded to the nearest 0.01-foot. The wells gauged and select wells that were bailed are listed below. The 2018 Groundwater Sampling Plan (**Table 2**) shows the semi-annual and annual gauging as well as the semi-annual groundwater sampling schedule. Groundwater and LNAPL gauging data since 1988 are included in **Table**

3 (Terminal) and in **Table 4** (Barge Dock). LNAPL extent maps constructed with June 2018 and earlier historical data are presented as **Figure 10** and **Figure 11**. LNAPL spatial extents documented during the July to December events were consistent with the May to June 2018 gauging. LNAPL thicknesses in many wells have decreased due to the seasonally low water table as discussed below. Historic LNAPL and groundwater hydrographs are presented for select static condition monitoring wells on both the Terminal and Barge Dock parcels in **Appendix D**. Groundwater contour maps constructed with data collected from the October 10, 2018 groundwater sampling event are presented as **Figure 4** (Barge Dock, shallow wells), **Figure 5** (Barge Dock, deep wells), and **Figure 6** (Barge Dock, DD level wells).

- Gauged wells shown in **Table 1** demonstrate minimal LNAPL thicknesses in a majority of the static condition wells.
 - LNAPL accumulation and thicknesses in wells across the Barge Dock have reduced significantly. Very few wells consistently accumulate enough LNAPL to bail during operations and maintenance events.
 - Wells near the edge of the LNAPL plume in the Manifold area (MRW-9 and MRW-10) were gauged and bailed on a more frequent schedule to demonstrate LNAPL plume stability and limited LNAPL recharge.
 - Long-term LNAPL occurrence trends exhibit decreasing measured thicknesses in the Barge Dock monitoring well network (**Appendix D**).
 - Wells in Areas of Concern (AOCs) 11 through 13 exhibited LNAPL thicknesses of 0.01, 0.03, and 0.27 feet in MWRR-8, MWOW-5, and MWOW-1, respectively. These wells continue to exhibit limited product accumulation and thicknesses which are insufficient for LNAPL recovery.

- Wells gauged during July 1 through October 30, 2018:
 - Barge Dock BRRTs #02-16-297979: LRMW-10, LRMW-11, MWRR-1D, MWRR-8, MWOW-1, MWOW-2D, MWOW-3, MWOW-5, MWBD-1D, and MWBD-1DD.
 - Manifold/AST Area BRRTs #02-16-117873: LRMW-7, MRW-3, MRW-5, MRW-6, MRW-7, MRW-8, MRW-9, MRW-10, MWAST-4, MWM-2D, MWM-3, MWM-6, MWM-7D, MWM-9RD, MWM-10D, MWT-2S, MWT-2D, MW-36S, MW-36D, MW-36DD, MW-37S, MW-37D, MW-37DD, MW-37DDD, MW-38S, MW-38D, MW-38DD, MW-40S, MW-40D, MW-41S, MW-41D, MW-41DD, MW-45S, MW-45D, MW-46S, MW-46D, MW-48S, MW-48D, MW-49S, MW-49D, MW-50D, MW-51D, MW-52D, MW-52DD.
 - Terminal BRRTs #02-16-00033: MW-30S, MW-30D, MW-30DD, MW-30DDD, MW-32, RW-8, and RW-9.

- Wells bailed during July 1 through October 30, 2018:
 - Manifold/AST Area BRRTs #02-16-117873:
 - MWAST-4 (10.5 gallons)
 - LRMW-7 (20.5 gallons)

- MRW-3 (43 gallons)
- MWM-6 (0.05 gallons)
- Barge Dock Area BRRTs #02-16-297979:
 - LRMW-11 (1.3 gallons)
 - MWOW-1 (0.1 gallons)
- Terminal BRRTs #02-16-00033:
 - MW-32 (1.8 gallons)
 - RW-9 (0.1 gallons)

Groundwater contour maps (**Figures 4, 5 and 6**) constructed from data collected from 41 wells during the October 2018 groundwater sampling event (**Section 3.3**) illustrate a prevailing north-northwest groundwater flow direction on the Barge Dock and Manifold, consistent with historical data collected at the site.

3.3 Groundwater Sampling

Groundwater samples were collected during the October 2018 semi-annual sampling event from 41 monitoring wells. The newly installed well MWRR-1DR was re-sampled in July and developed in advance of the sampling mobilization by purging 10 times the total well volume, or until the well produced sediment free water. A minimum of 3 well volumes were purged from all wells prior to sampling and groundwater samples were retrieved using dedicated disposable well bailers. Water samples were transferred to containers provided by Pace Analytical Services, Inc. (Pace) of Green Bay, Wisconsin with the appropriate preservative and stored on ice until being submitted for analysis. All groundwater samples were submitted to Pace for laboratory analysis of PVOCs and Naphthalene. Chain of custody records are provided with all laboratory reports. The MWRR-1DR sample was submitted to the Pace Analytical Duluth service center for shipment to Green Bay on July 25, 2018. Twenty-three samples were submitted to the Pace Analytical Duluth service center for shipment to Green Bay on October 10, and eighteen samples and four duplicates were submitted to the Pace Analytical service center for shipment to Green Bay on October 12. The wells sampled are listed below and can be found in **Table 2**. Copies of the groundwater analytical laboratory reports are included in **Appendix A**. Groundwater analytical results since 1988 are included in **Table 5** (Terminal) and since 2003 in **Table 6** (Barge Dock).

- The following 41 wells were sampled during October 2018: MW-30S, MW-30D, MW-30DD, MW-30DDD, MW-36S, MW-36D, MW-36DD, MW-37S, MW-37D, MW-37DD, MW-37DDD, MW-38S, MW-38D, MW-38DD, MW-40S, MW-40D, MW-41S, MW-41D, MW-41DD, MW-45S, MW-45D, MW-46S, MW-46D, MW-48S, MW-48D, MW-49S, MW-49D, MW-50D, MW-51D, MW-52D, MW-52DD, MWM-2D, MWM-7D, MWM-9RD, MWM-10D, MWBD-1D, MWBD-1DD, MWOW-2D, MWRR-1DR, MWT-2D, MWT-2S
- Water samples from the following wells were reported to exceed the Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (NR 140 ES) for Benzene (5 µg/L) in October 2018: MW-30S (409 µg/L), MW-30D (1,830 µg/L), MW-36D (1,690 µg/L), MW-37D (2,450 µg/L), MW-37DD (1,260 µg/L), MW-41D (28.4 µg/L), MW-45D (121 µg/L), MW-49S (1,970 µg/L), MWM-7D

- (2,250 µg/L), MWM-9RD (2,400 µg/L), MWM-10D (1,140 µg/L), MWT-2D (3,100 µg/L), MWRR-1DR (460 µg/L July 2018, 510 µg/L), and MWBD-1D (110 µg/L).
- Water samples from the following wells were reported to exceed the NR 140 ES for Naphthalene (100 µg/L) in October 2018: MW-30D (168 µg/L) and MWT-2D (127 µg/L).
 - Water samples from the following wells were reported to exceed the NR 140 ES for Methyl Tertiary Butyl Ether (MTBE) (60 µg/L) in October 2018: MWT-2D (129 µg/L), and MWM-9RD (165 µg/L).
 - No water samples were reported to exceed the NR 140 ES for Toluene (800 µg/L) in October 2018.
 - No water samples were reported to exceed the NR 140 ES for Ethylbenzene (700 µg/L) in October 2018.
 - No water samples were reported to exceed the NR 140 ES for Xylene (2000 µg/L) in October 2018.
 - No water samples were reported to exceed the NR 140 ES for Total Trimethylbenzene (480 µg/L) in October 2018.
- The areal extent of the dissolved-phase benzene plume in the shallow (water table) zone on the Barge Dock parcel, from the October 2018 groundwater sampling data, is illustrated on **Figure 7**.
 - MW-30S (Benzene 405 µg/L) delineates the northernmost extent of the Terminal dissolved-phase plume in the shallow well network and was further delineated to the north-northwest to non-detect conditions by monitoring wells MWT-2S and MW-45S during the October groundwater sampling event.
 - Well MW-49S continues to exhibit atypical benzene concentrations. The October 2018 benzene concentration for MW-49S was reported at 1,970 µg/L, and the June 2018 benzene concentration was 1,660 µg/L. Results for both sampling events in 2017 (June and October) reported benzene concentrations that were below the laboratory detection limits (<0.40 µg/L) for this well. This well will continue to be sampled on a semi-annual basis to monitor contaminant trends.
 - The Barge Dock dissolved-phase benzene plume in the “D” level vertical delineation zone extends west of the manifold and beneath the C. Reiss Coal property to the west edge of the Hallett Dock property. The inferred areal extent of the dissolved-phase benzene plume is fully delineated by the deep D-series wells as illustrated on **Figure 8**.
 - Vertical delineation wells MW-30DDD, MW-37DDD, MW-38DD, MW-41DD, MW-50D, MW-51D, MW-52D, and MW-52DD all reported results below the NR 140 ES or below the laboratory detection limits. Wells MW-50D, MW-51D, MW-52D, and MW-52DD define the vertical extent of the dissolved phase plume to the west, wells MW-41DD and MW-38DD define the vertical extent of the dissolved phase plume to the north, and well MW-30DDD defines the vertical extent of the dissolved phase plume to the south.
 - The deep well network (D, DD-series wells) dissolved-phase benzene plume is vertically and horizontally defined on the Barge Dock. An updated 4dim block model of the plume is illustrated in **Appendix G**. This recently developed model is based on groundwater data collected in October 2018. The plume is controlled by the confining aquifer conditions and base of clay in the area. As illustrated, the plume likely emanates from the Terminal and is oriented northwest, consistent

- with the prevailing historical groundwater flow direction. The maximum depth of the plume is delineated by MW-37DDD and is spatially bounded by non-detect wells in all directions.
- o MWBD-1D benzene concentrations have continued to decrease since the historical high of 213 µg/L in May 2016, and MWBD-1DD reported results below laboratory detection limits for benzene, thus fully delineating the dissolved phase vertical extent in the area.

Historic dissolved benzene and groundwater hydrographs are presented for eight of the sampled vertical delineation wells (MWM-10D, MW-36D, MWM-7D, MWM-9RD, MW-37D, MWBD-1D, MW-30D, MWT-2D) in **Appendix C**. Dissolved benzene hydrographs show long term decreasing or stable trends of benzene concentrations in five of the eight wells (MW-36D, MWM-9RD, MWBD-1D, MW-30D, MWT-2D). While MW-37D has a demonstrated benzene concentration increase from May 2013 to October 2015, concentrations have decreased over the last six sampling events. Benzene concentrations in wells MWM-7D and MWM-10D continue to remain below the historical high concentrations.

The percent reduction from the historical high benzene concentrations to the October 2018 benzene concentrations in the 8 key vertical delineation wells are summarized in the table below:

Well	October 2018 Benzene Concentration (µg/L)	Historical High Benzene Concentration (µg/L)	Date of Historical High Benzene Concentration	Percent Change From Historical High Benzene Concentration
MWT-2D	3,100	5,740	October 2015	-46.0%
MW-37D	2,450	3,090	October 2015	-20.7%
MW-36D	1,690	2,270	July 2011	-22.6%
MW-30D	1,830	2,560	October 2015	-28.5%
MWM-10D	1,140	1,230	April 2010	-7.3%
MWM-9RD	2,400	5,540	April 2011	-56.7%
MWM-7D	2,250	2,340	October 2009	-3.8%
MWBD-1D	110	213	May 2016	-48.4%

3.4 Operation and Maintenance of Phase II System, July - December, 2018

The seasonal Phase II system operated from July 1 – October 29, 2018 with limited down time. System data was collected during 11 monitoring events during the referenced period. The Phase II System was installed in 2012 as a spring through fall seasonally operated system with above-grade piping to address the LNAPL plume extending from the Barge Dock manifold across the C. Reiss Coal property to the west. The system originally consisted of a network of seven recovery wells, of which five wells remain active (MRW-5, MRW-6, MRW-7, MRW-8, and MWM-3) as wells MRW-9 and MRW-10 at the western extent of the heritage LNAPL plume no longer contain sufficient LNAPL for system recovery. Wells MRW-5, MRW-6, MRW-7, and MRW-8 are 6 inches in diameter, and MWM-3 is 4 inches in

diameter. Each active recovery well contains a pneumatic skimming pump that tracks the water table using a floating head intake and removes LNAPL that accumulates in recovery wells. Recovered LNAPL is pumped into a 7,000-gallon capacity, double-walled, steel AST located next to the system building. Cumulative Phase II System LNAPL recovery is illustrated in **Figure 12a** and summarized in **Table 7**. Phase II Barge Dock LNAPL Recovery per year is illustrated on **Figure 12c**. The Phase II system is monitored on an approximate weekly basis.

The Phase II System was temporarily down due to electrical control panel issues from approximately September 19 (upon evaluation of control panel meter run hours) to October 22, 2018. The system was repaired and restarted on October 22, 2018, and continued to operate until seasonal shut down on October 29, 2018.

Approximately 95% of LNAPL recovered from Barge Dock wells is from the Finger Plume area (the elongated extent of LNAPL that extends to the west-southwest from the former Barge Dock manifold for a distance of approximately 700 feet), including mobile skimmer, Phase I system, and Phase II system recovery. The WDNR Operation, Maintenance, Monitoring, and Optimization Form is included in **Appendix E**.

- The total amount of LNAPL recovered by the Phase II skimming system from July 1 to October 29, 2018 was approximately 768 gallons.
- The average Phase II system recovery rate from July 1 to October 29, 2018 was 6.45 gallons per day or approximately 1.29 gallons per day per active recovery well.
- Total LNAPL recovered during the 2018 operating season was 1,543 gallons and total recovery since Phase II system startup in June 2012 is approximately 36,229 gallons.
- The LNAPL recovery has decreased over time (**Figures 12a-c**). **Figure 12b** highlights the progressive decrease in LNAPL recovery rate (gallons/day) one month after system startup during the 2012 operating season (153.3 gal/day) to one month after system startup during the 2018 operating season (9.6 gal/day).
- Antea Group recommends continued operation of the Phase II recovery system during the 2019 operating season, after which site closure suitability will be evaluated.

3.5 MWAST-4 LNAPL Recovery

The initial extended duration LNAPL recovery was initiated in July 2015 and discontinued on August 22, 2017. MWAST-4 is four inches in diameter and contained a pneumatic skimming pump that tracked the water table using a floating head intake and removed LNAPL that accumulated in the recovery well. Recovered LNAPL was pumped through a double-walled product line into 1,000-gallon capacity, double-walled AST located in a fenced enclosure adjacent to the Phase II remediation system building.

MWAST-4 was gauged and bailed on a regular basis from July 1 through September 4, 2018 (**Table 1**). Six gauge and bail events between July 1 and September 4, 2018 recovered approximately 10.5 gallons of LNAPL. After gauging product thicknesses that ranged from 1.17 feet on July 3 to 2.14 feet on August 16, the pump system was reinstalled in MWAST-4 on September 4, 2018. The MWAST-4 System was temporarily down due to compressor electrical control panel issues from approximately September 19 to October 22, 2018, when the system was

restarted. The pump continued to operate after system restart until seasonal shutdown in October 29, 2018. A total of 50.2 gallons of LNAPL was recovered by the system from September 4 to October 29, 2018 (**Table 8**).

Figure 15 shows the trends for LNAPL recovery rates and total LNAPL recovered. Continued operation of the LNAPL recovery pump in MWAST-4 will be evaluated at the start of the 2019 operating season, and continued if sufficient LNAPL exists in the well.

3.6 MRW-3 LNAPL Recovery

On August 22, 2017, a three-inch diameter pneumatic skimming pump was installed in six-inch diameter monitoring well MRW-3. The skimming pump has a fixed intake which removes LNAPL that accumulates in the recovery well. Recovered LNAPL is pumped through a high-density polyethylene (HDPE) product line into a 1,000-gallon storage tank. An airline was installed that connects the MRW-3 pump to the Phase II System compressor to operate the pump. The pump in MRW-3 operated from August 22 through November 8, 2017, and recovered approximately 130.2 gallons. The LNAPL recovery pump was restarted on May 15, 2018 and operated with limited interruption through the first half of the operating season.

LNAPL recovery pump operations continued from July 1 through September 4, 2018 with no interruption. System data was collected over 11 monitoring events. Product thicknesses during system operation ranged from 0.81 feet on August 8 to 0.03 feet on July 3, 2018. Due to the decrease in product thicknesses, and decreasing LNAPL recovery rates, the pump was removed from the well on September 4, 2018, and the well was switched to a gauge and bail schedule. Total LNAPL recovery during the reporting period was approximately 83.6 gallons as shown in **Table 9** with an average daily recovery rate of 1.46 gallons per day. Cumulative LNAPL recovery for the 2018 LNAPL recovery system operating season was 180.5 gallons. **Figure 13** shows the trends for LNAPL recovery rates and total LNAPL recovered.

MRW-3 was gauged and bailed four times between September 4 and October 30, 2018 with total recovery of 43 gallons of LNAPL. Continued operation of the LNAPL recovery pump in MRW-3 will be evaluated at the start of the 2019 operating season, and continued if sufficient LNAPL exists in the well.

3.7 LRMW-7 LNAPL Recovery

On August 30, 2017, a three-inch diameter pneumatic skimming pump was installed in four-inch diameter monitoring well LRMW-7. The skimming pump has a fixed intake which removes LNAPL that accumulates in the recovery well. Recovered LNAPL is pumped through a HDPE product line into a 1,000-gallon storage tank that had been previously used for storage of hand bailed product. An airline was installed on August 30, 2017 connecting the LRMW-7 pump to the Phase II System compressor to operate the pump. The pump in LRMW-7 operated from August 30 through November 8, 2017, and recovered approximately 108.35 gallons. The LNAPL recovery pump was restarted on May 15, 2018 and operated with limited interruption through the first half of the operating season.

LNAPL recovery pump operations continued from July 1 through September 4, 2018 with no interruption. System data was collected over 11 monitoring events. Product thicknesses during system operation ranged from 0.60 feet on July 25 to 0.03 feet on July 10, 2018. Due to the decrease in product thicknesses, and decreasing LNAPL recovery rates, the pump was removed from the well on September 4, 2018, and the well was switched to a gauge and bail schedule. Total LNAPL recovery during the reporting period was approximately 28.92 gallons as shown in **Table 10** with an average daily recovery rate of 0.4 gallons. Cumulative LNAPL recovery for the 2018 season was 77.74 gallons. **Figure 14** shows LNAPL recovery rates and total LNAPL recovered.

LRMW-7 was gauged and bailed five times from September 4 to October 30, 2018 with total recovery of 20.5 gallons of LNAPL. Continued operation of the LNAPL recovery pump in LRMW-7 will be evaluated at the start of the 2019 operating season, and continued if sufficient product exists in the well.

3.8 Waste Disposal

Covanta Environmental Solutions, LLC removed 14 drums of petroleum contaminated soil produced during June and July recovery well installation events on October 16, 2018 and transported it to their Fox Valley disposal facility in Winneconne, WI. Soil was then transferred to a bio-remediation box and sent to Waste Management's landfill in Berlin, WI. Future Environmental removed approximately 2,500 gallons of investigation-derived liquid waste (purge water, hand bailed LNAPL, and LNAPL system recovered groundwater) from the site on October 30, 2018. The liquid waste was transported to Elite Environmental Corp in West Allis, WI for oil recovery and water treatment. The waste manifests are included in **Appendix F**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the available site information, Antea Group makes the following conclusions and recommendations:

Conclusions:

- The following LNAPL recovery systems were active during the July to December 2018 operating period:
 - The Phase II system recovered approximately 768 gallons of LNAPL from July 1 to October 29, 2018 at an average recovery rate of 1.29 gallons per active recovery well per day.
 - Cumulative system recovery for the 2018 season was 1,543 gallons, which is a continuation of the decay trends of LNAPL recovery year over year (**Figure 12c**). This declining trend is expected to continue during the 2019 season.
 - The pneumatic skimming pump in MWAST-4 recovered approximately 50.2 gallons of LNAPL from September 4 to October 29, 2018.
 - The pneumatic skimming pump in MRW-3 recovered approximately 83.6 gallons of LNAPL from July 1 to September 4, 2018 at an average recovery rate of 1.46 gallons per day. The system has recovered approximately 310.7 gallons of LNAPL since recovery pump installation on August 22,

2017. Based on declining recovery rates the well was switched to a gauge and bail schedule on September 4, 2018.

- The pneumatic skimming pump in LRMW-7 recovered approximately 28.92 gallons of LNAPL from July 1 to September 4, 2018 at an average recovery rate of 0.4 gallons per day. The system has recovered approximately 180.05 gallons of LNAPL since pump installation on August 30, 2017. Based on declining recovery rates the well was switched to a gauge and bail schedule on September 4, 2018.
- Semi-annual groundwater sampling analytical results continue to exhibit stable or decreasing conditions at 5 of 8 key “D” level wells on the C. Reiss Coal and Hallett Dock parcels (MW-36D, MWM-9RD, MWBD-1D, MW-30D, MWT-2D; **Appendix C**).
- “D”, “DD”, and “DDD” level wells MW-30DDD, MW-52D, MW-52DD, MW-51D, MW-50D, MW-41DD, and MW-38DD exhibited non-detect levels for benzene. MW-37DDD reported a result of 2.8 µg/L, below the NR 140 ES. With the addition of the 11 wells installed in 2018 the vertical delineation well network fully delineates the extent of the dissolved-phase benzene plume.
- North Barge Dock wells in AOCs 11-13 continue to exhibit limited to no LNAPL thicknesses (**Table 1**) and no LNAPL recovery potential.

Recommendations:

- Continue operation of the Phase II LNAPL recovery system through the end of the 2019 operating season. LNAPL recovery is anticipated to continue to decline consistent with seasonal system operation to date.
- Initiate operation of the MRW-3 and LRMW-7 LNAPL recovery pumps at the start of the 2019 seasonal operating season; if sustained LNAPL occurrence or recovery is not observed, pump recovery operation will be terminated.
- Continue hand bailing LNAPL recovery activities at select AOCs that re-accumulate LNAPL during the 2019 operating season.
- Conduct semi-annual groundwater monitoring including gauging and sampling wells included on the 2019 Groundwater Sampling Plan (**Table 11**).
- Review reports uploaded to the WDNR BRRTS database for adjacent upgradient open LUST incidents (BRRTS Nos. 03-16-000059, 03-16-000320, and 03-16-000721) as contamination has not been delineated vertically at these sites.
- Three Remedial Option Action Reports (RAOR) will be submitted to the WDNR in February 2019 for the three Amoco Terminal BRRTs numbers. A meeting will be scheduled with the WDNR in mid-April to discuss report comments, the results of the 2018 field work program, and the pathway to closure for the subject site.
- Geochemical monitoring and sampling will be conducted during the groundwater sampling event in May 2019 to monitor natural attenuation conditions across the site. Parameters monitored will include field meter analysis of dissolved oxygen (DO), oxidation-reduction potential (ORP), temperature, pH, and specific

conductivity, laboratory analysis of dissolved iron (Fe^{+2}), nitrate, and sulfate, and field kit testing for alkalinity. These tests will be performed on 25 wells as listed in **Table 11**.

- Based on the results of the 2019 LNAPL recovery system operation and the groundwater monitoring and sampling program, Antea Group will evaluate site closure suitability when preparing the next report documenting 2019 site activities.

5.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no expressed or implied warranty as to the contents of this report



Handwritten signature of Layne Kortbein in black ink.

Date: 1/21/2019

Layne Kortbein
Staff Professional

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



Handwritten signature of Wayne R. Hutchinson in blue ink.

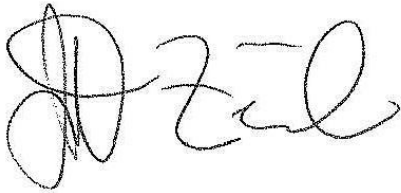
Date: 1/21/2019

Wayne Hutchinson, PG, PH
Senior Hydrogeologist

Professional Seal:



Reviewed by:



Jonathan Zimdars
Consultant

Date: 1/21/2019

Figures

Figure 1 - Area Properties Map

Figure 2 - Terminal Site Map with BRRTs Numbers

Figure 3 - Amoco Barge Dock, Manifold & AST Area Wells

Figure 4 - Groundwater Contour Map - June 2018 - Shallow Wells (Barge Dock)

Figure 5 - Groundwater Contour Map - June 2018 - Deep Wells (Barge Dock)

Figure 6 - Groundwater Contour Map - June 2018 - DD Level Wells (Barge Dock)

Figure 7 - Dissolved Phase Benzene Concentrations - June 2018 - Shallow Wells (Barge Dock)

Figure 8 - Dissolved Phase Benzene Concentrations - June 2018 - Deep Wells (Barge Dock)

Figure 9 - Dissolved Phase Benzene Concentrations - June 2018 - DD Level Wells (Barge Dock)

Figure 10 - LNAPL Extent Map - June 2018 (Barge Dock)

Figure 11 - LNAPL Extent Map - June 2018 (Terminal)

Figure 12a - Barge Dock Phase II System - LNAPL Recovery Graph

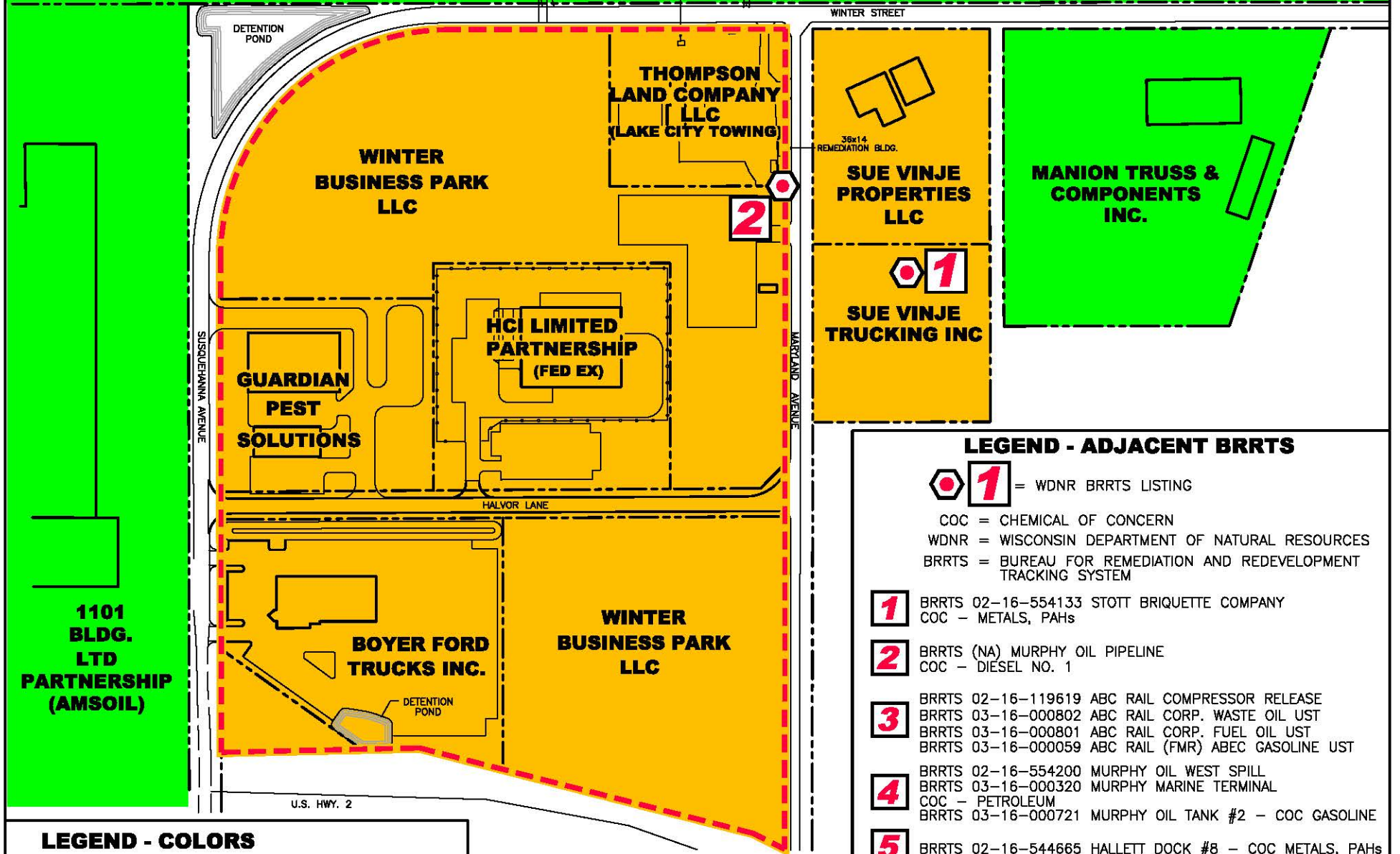
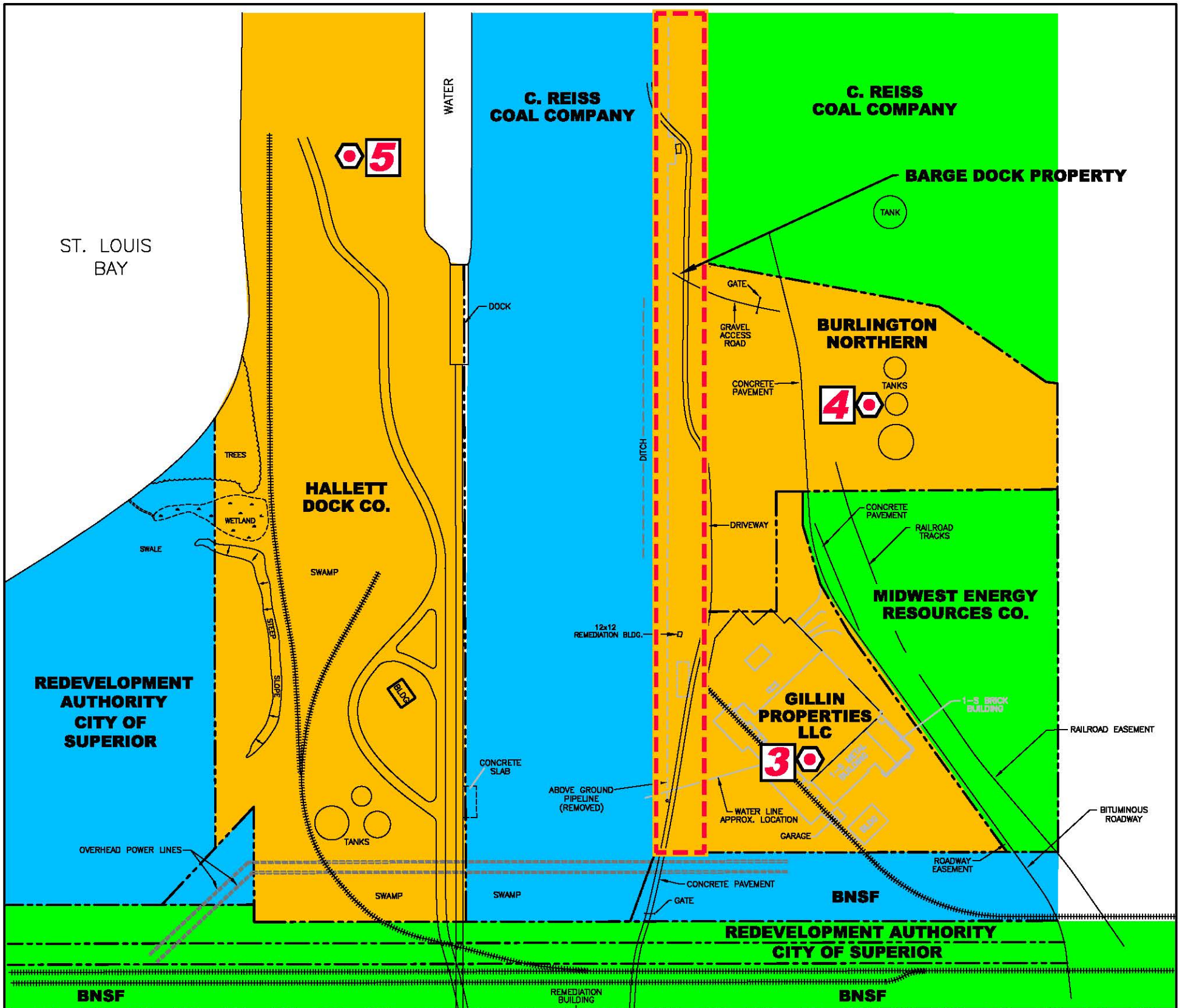
Figure 12b - Barge Dock Phase II System - LNAPL Recovery Graph

Figure 12c - Barge Dock Phase II System - LNAPL Annual Recovery Graph

Figure 13 - MRW-3 LNAPL Recovery Test Graph

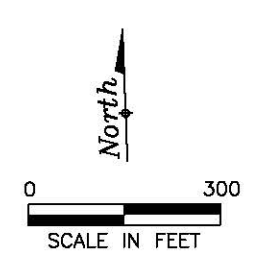
Figure 14 - LRMW-7 LNAPL Recovery Test Graph

Figure 15 - MWAST-4 LNAPL Recovery Graph



LEGEND - COLORS

	ACTIVE COMMERCIAL (NO INCIDENT)
	ACTIVE COMMERCIAL (INCIDENT)
	VACANT
	SUBJECT SITE



LEGEND - ADJACENT BRTS


1 = WDNR BRTS LISTING

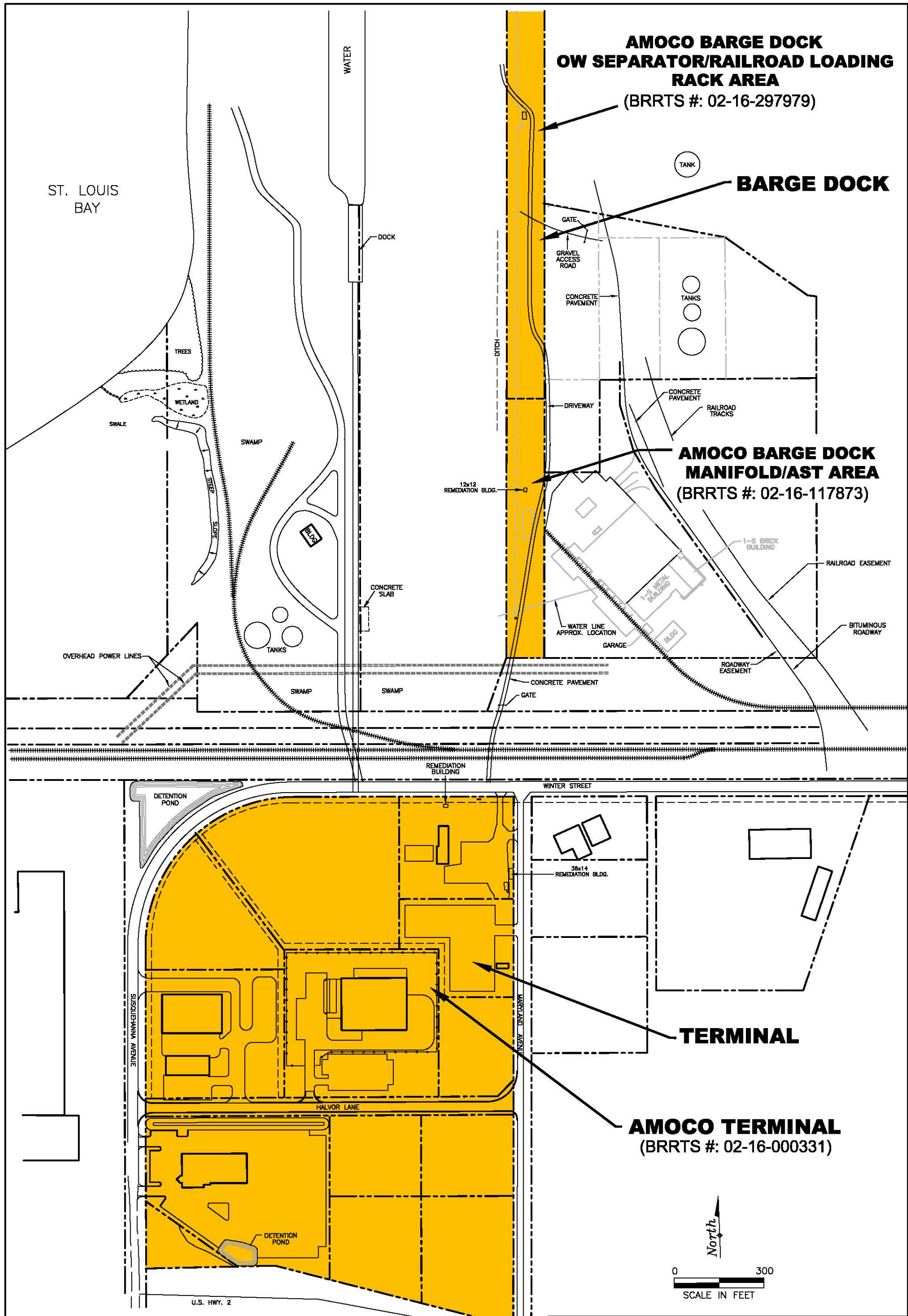
COC = CHEMICAL OF CONCERN
 WDNR = WISCONSIN DEPARTMENT OF NATURAL RESOURCES
 BRTS = BUREAU FOR REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM

1	BRTS 02-16-554133 STOTT BRIQUETTE COMPANY COC - METALS, PAHs
2	BRTS (NA) MURPHY OIL PIPELINE COC - DIESEL NO. 1
3	BRTS 02-16-119619 ABC RAIL COMPRESSOR RELEASE BRTS 03-16-000802 ABC RAIL CORP. WASTE OIL UST BRTS 03-16-000801 ABC RAIL CORP. FUEL OIL UST BRTS 03-16-000059 ABC RAIL (FMR) ABEC GASOLINE UST
4	BRTS 02-16-554200 MURPHY OIL WEST SPILL BRTS 03-16-000320 MURPHY MARINE TERMINAL COC - PETROLEUM BRTS 03-16-000721 MURPHY OIL TANK #2 - COC GASOLINE
5	BRTS 02-16-544665 HALLETT DOCK #8 - COC METALS, PAHs

**FIGURE 1
AREA PROPERTIES MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 07/06/17	REVIEWED BY	FILE NAME 2017-Area



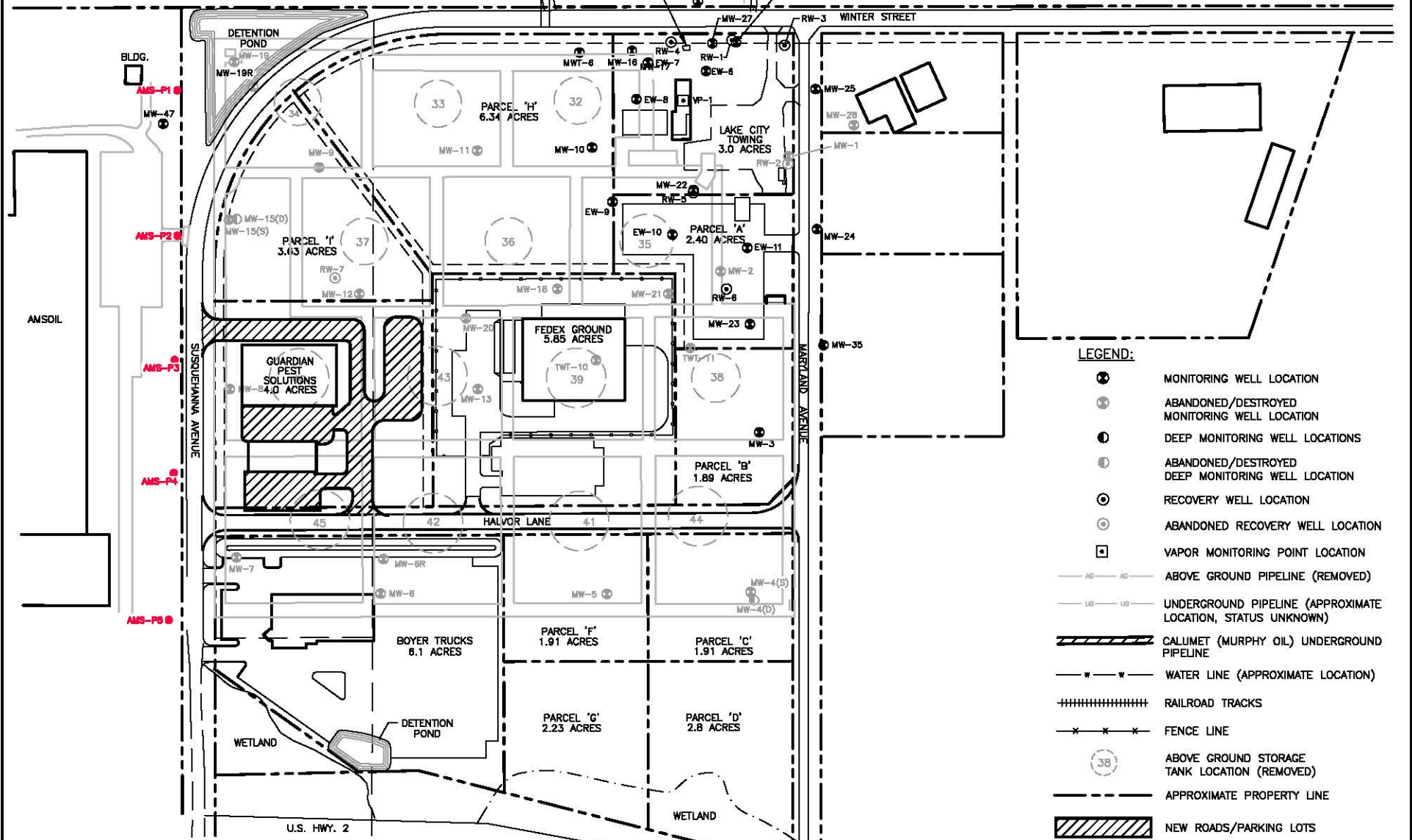
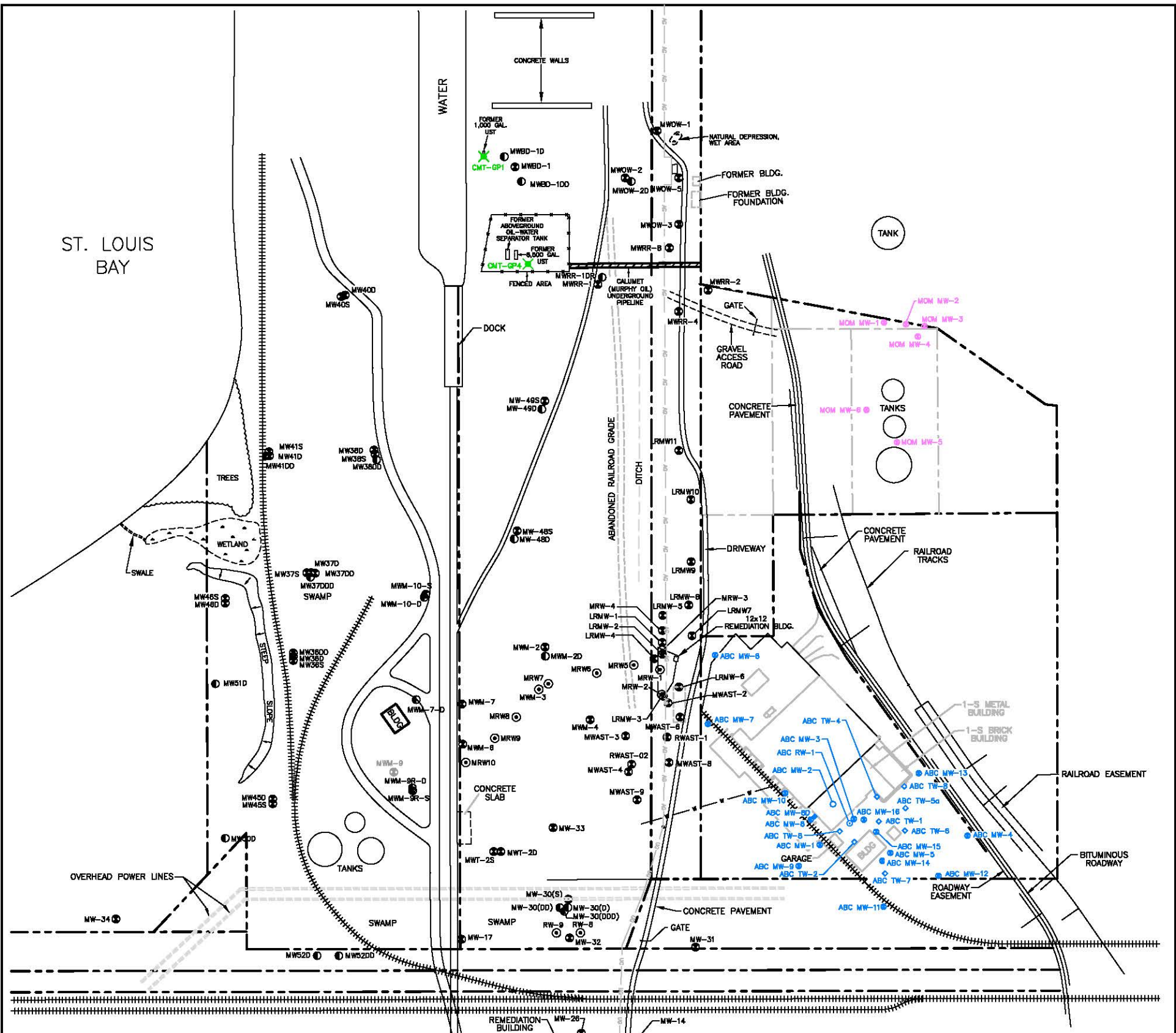


**FIGURE 2
SITE MAP**

**FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 07/06/17	REVIEWED BY	FILE NAME 2017-Base



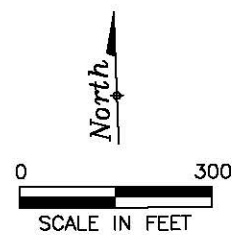


- LEGEND:**
- MONITORING WELL LOCATION
 - ⊙ ABANDONED/DESTROYED MONITORING WELL LOCATION
 - ⊕ DEEP MONITORING WELL LOCATIONS
 - ⊖ ABANDONED/DESTROYED DEEP MONITORING WELL LOCATION
 - ⊗ RECOVERY WELL LOCATION
 - ⊘ ABANDONED RECOVERY WELL LOCATION
 - VAPOR MONITORING POINT LOCATION
 - AG — AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - C — C — CALLUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — W — WATER LINE (APPROXIMATE LOCATION)
 - ||||| RAILROAD TRACKS
 - X — X — FENCE LINE
 - ⊙ (38) ABOVE GROUND STORAGE TANK LOCATION (REMOVED)
 - — — — — APPROXIMATE PROPERTY LINE
 - ▨ NEW ROADS/PARKING LOTS

- ⊕ ABC RAIL MONITORING WELL
- ⊖ ABC RAIL PIEZOMETER
- ⊗ ABC RAIL TEMPORARY MONITORING WELL
- ⊘ ABC RAIL ABANDONED MONITORING WELL
- ⊙ ABC RAIL RECOVERY WELL
- ⊕ MURPHY OIL MARINE TERMINAL MONITORING WELL
- ⊗ CALUMET MARINE TERMINAL TEMPORARY WELLS
- AMSOIL TEMPORARY WELL (2004 DATA)

FIGURE 3
SITE MAP, TERMINAL AND BARGE DOCK DETAIL-
WELLS ONLY
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY NP	DRAWN BY SAA/JH
DATE 01/03/2019	REVIEWED BY	FILE NAME 2018-300B



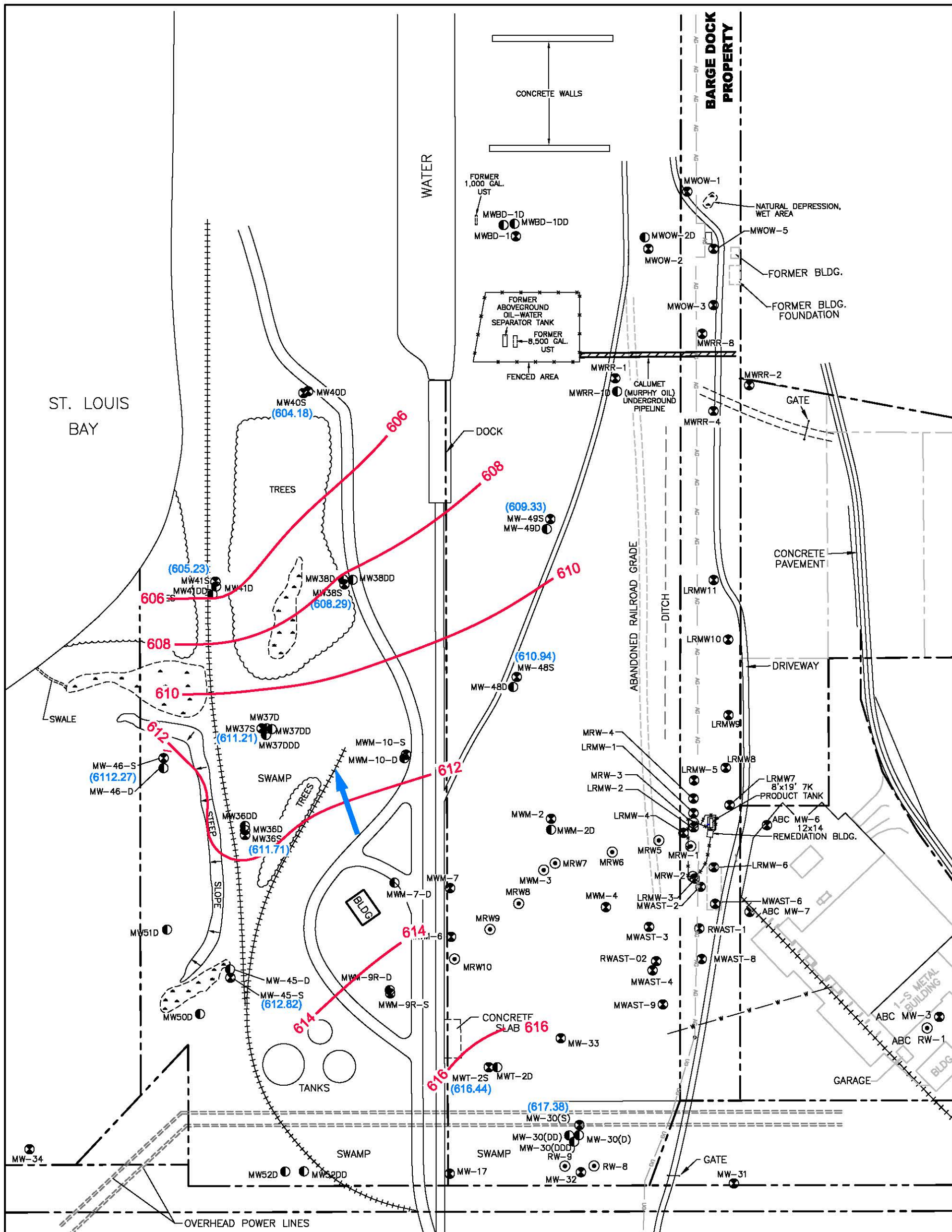
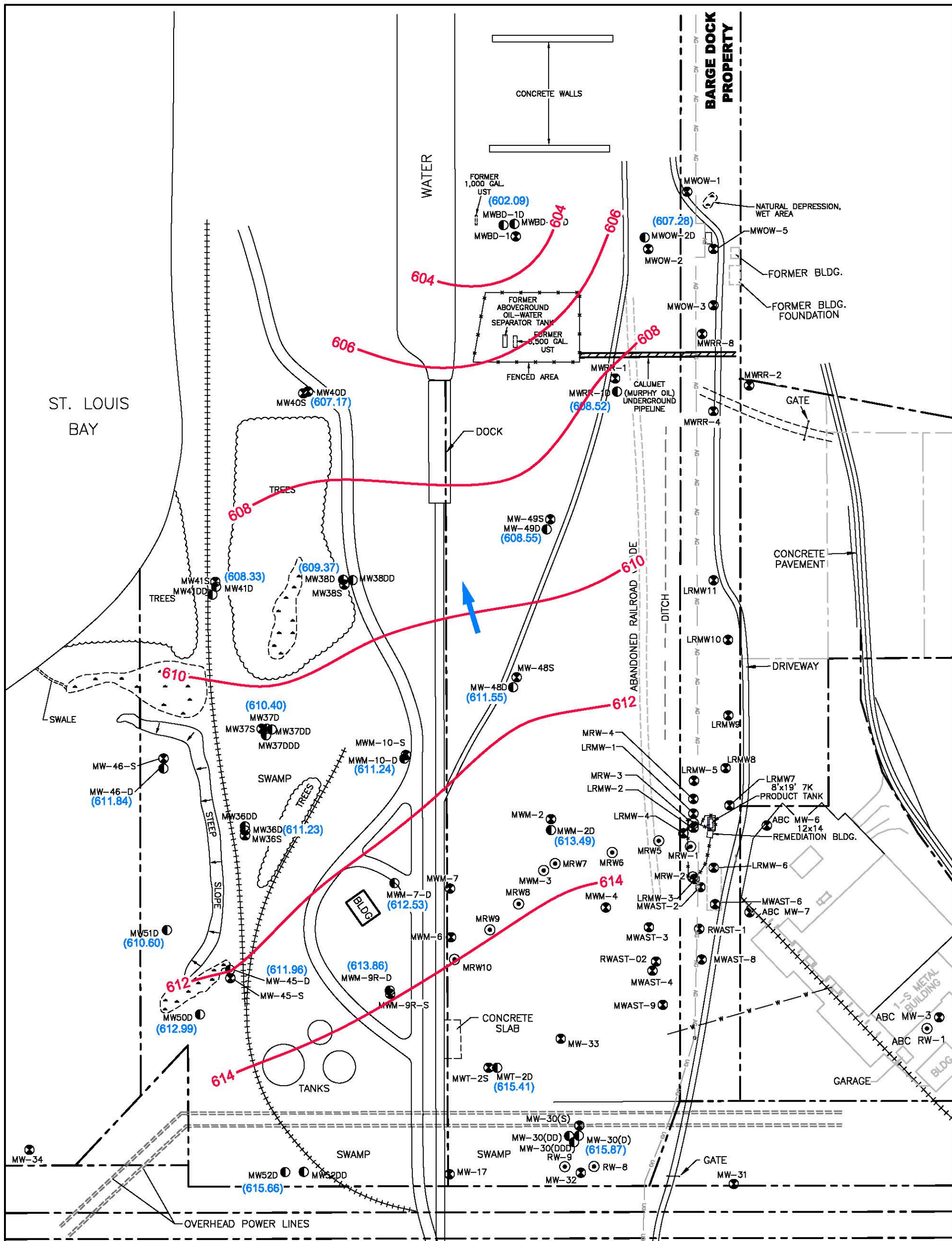


FIGURE 4
GROUNDWATER CONTOUR MAP -OCTOBER 8, 2018
SHALLOW WELLS (BARGE DOCK)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/SAA/DR
DATE 10/19/2018	REVIEWED BY	FILE NAME BD-1018-GWS



- LEGEND:**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATIONS
 - ⊙ RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - ☁ NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - C — CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ===== GRAVEL ACCESS ROAD
 - +++++ RAILROAD TRACKS
 - * — FENCE LINE
 - — — APPROXIMATE PROPERTY LINE
 - (612.27) GROUNDWATER ELEVATION (NO LNAPL IN WELL)
 - 612 — GROUNDWATER CONTOUR LINE
 - ← INFERRED GROUNDWATER FLOW DIRECTION



- LEGEND:**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATIONS
 - ⊙ RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - ☁ NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ===== GRAVEL ACCESS ROAD
 - +++++ RAILROAD TRACKS
 - * — FENCE LINE
 - APPROXIMATE PROPERTY LINE
 - (612.99) GROUNDWATER ELEVATION (NO LNAPL IN WELL)
 - 610 — GROUNDWATER CONTOUR LINE
 - ← INFERRED GROUNDWATER FLOW DIRECTION

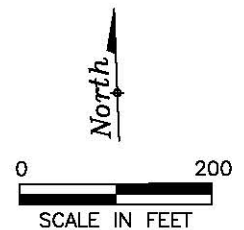
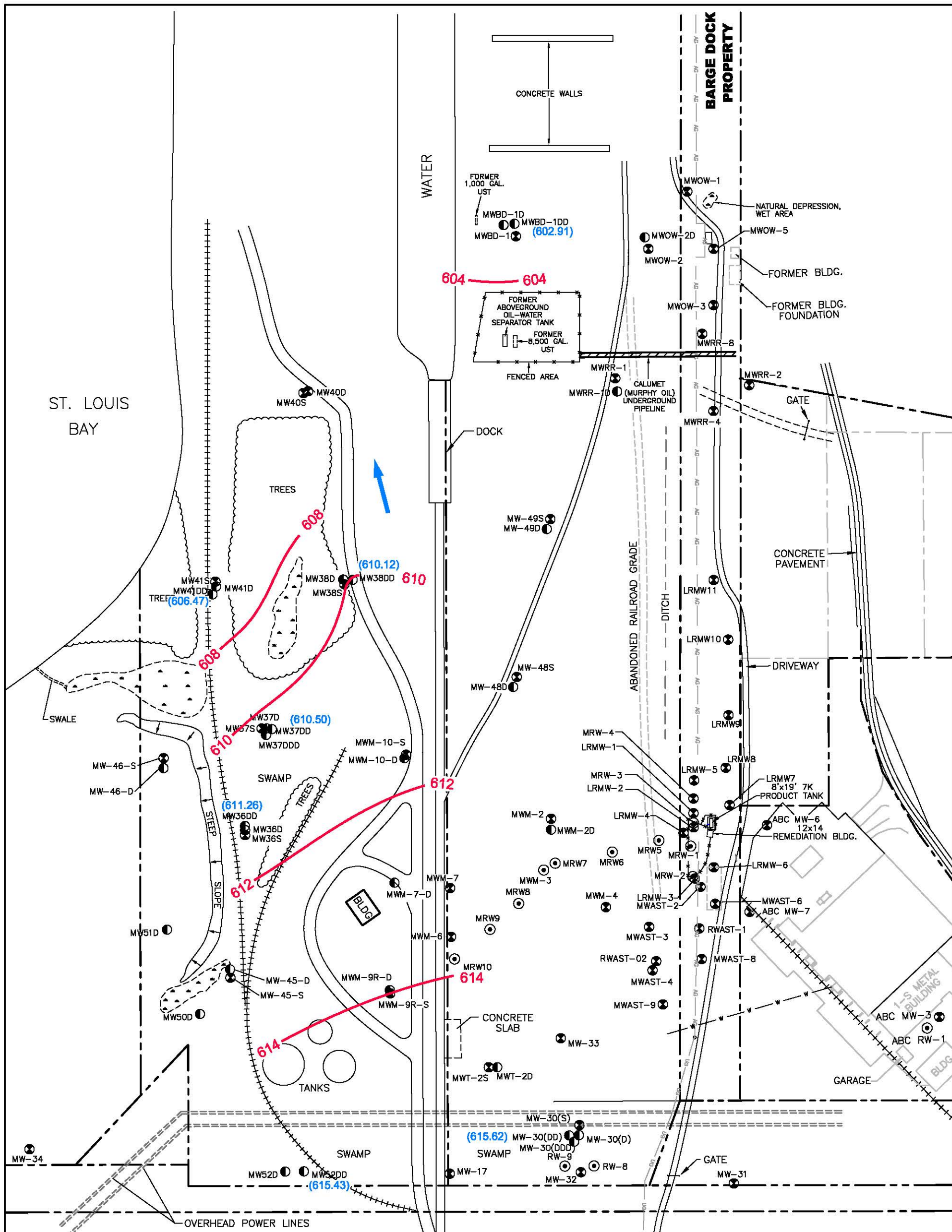


FIGURE 5
GROUNDWATER CONTOUR MAP –OCTOBER 8, 2018
DEEP WELLS (BARGE DOCK)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/SAA/DR
DATE 10/19/2018	REVIEWED BY	FILE NAME BD-1018-GWS



- LEGEND:**
- MONITORING WELL LOCATION
 - ⦿ DEEP MONITORING WELL LOCATIONS
 - ⊙ RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - ☁ NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - C — CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ==== GRAVEL ACCESS ROAD
 - ++++ RAILROAD TRACKS
 - - - - FENCE LINE
 - - - - APPROXIMATE PROPERTY LINE
 - (615.43) GROUNDWATER ELEVATION (NO LNAPL IN WELL)
 - 612 — GROUNDWATER CONTOUR LINE
 - ← INFERRED GROUNDWATER FLOW DIRECTION

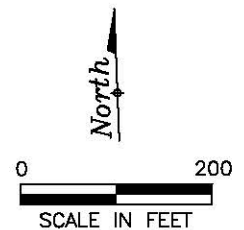
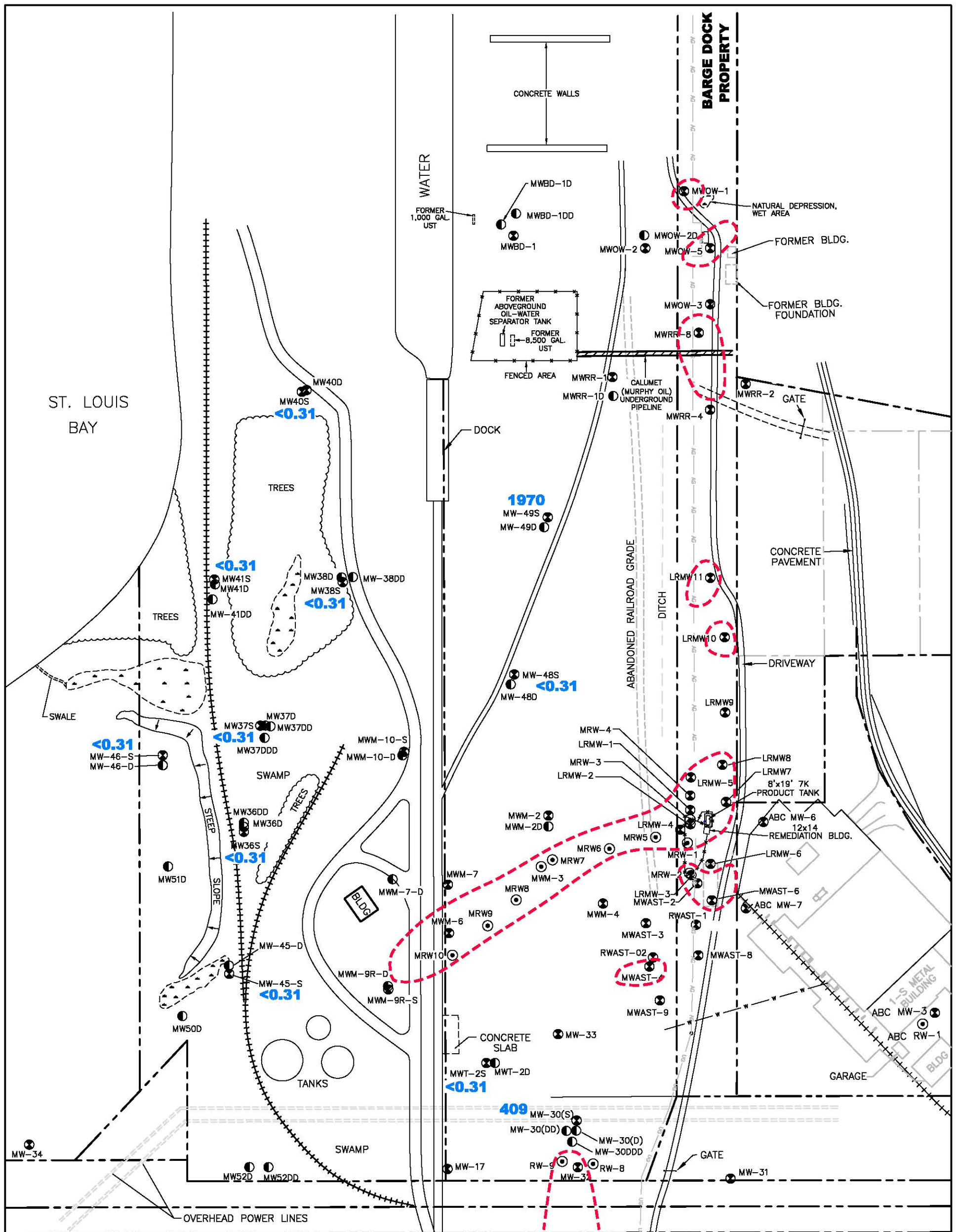


FIGURE 6
GROUNDWATER CONTOUR MAP –OCTOBER 8, 2018
DD LEVEL WELLS (BARGE DOCK)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/SAA/DR
DATE 10/19/2018	REVIEWED BY	FILE NAME BD-1018-GWS



- LEGEND:**
- MONITORING WELL LOCATION
 - ⊙ DEEP MONITORING WELL LOCATIONS
 - ⊙ RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UB — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ==== GRAVEL ACCESS ROAD
 - ++++ RAILROAD TRACKS
 - FENCE LINE
 - APPROXIMATE PROPERTY LINE

○ LNAPL EXTENT (INFERRED FROM LIF & WELL GAUGING DATA) (PLUME I.D. REFERENCED IN TEXT)

409 BENZENE CONCENTRATION ug/L (OCTOBER 2017) (ES = 5 ug/L)

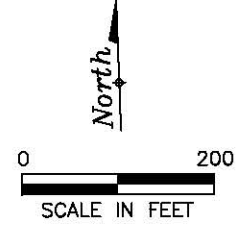

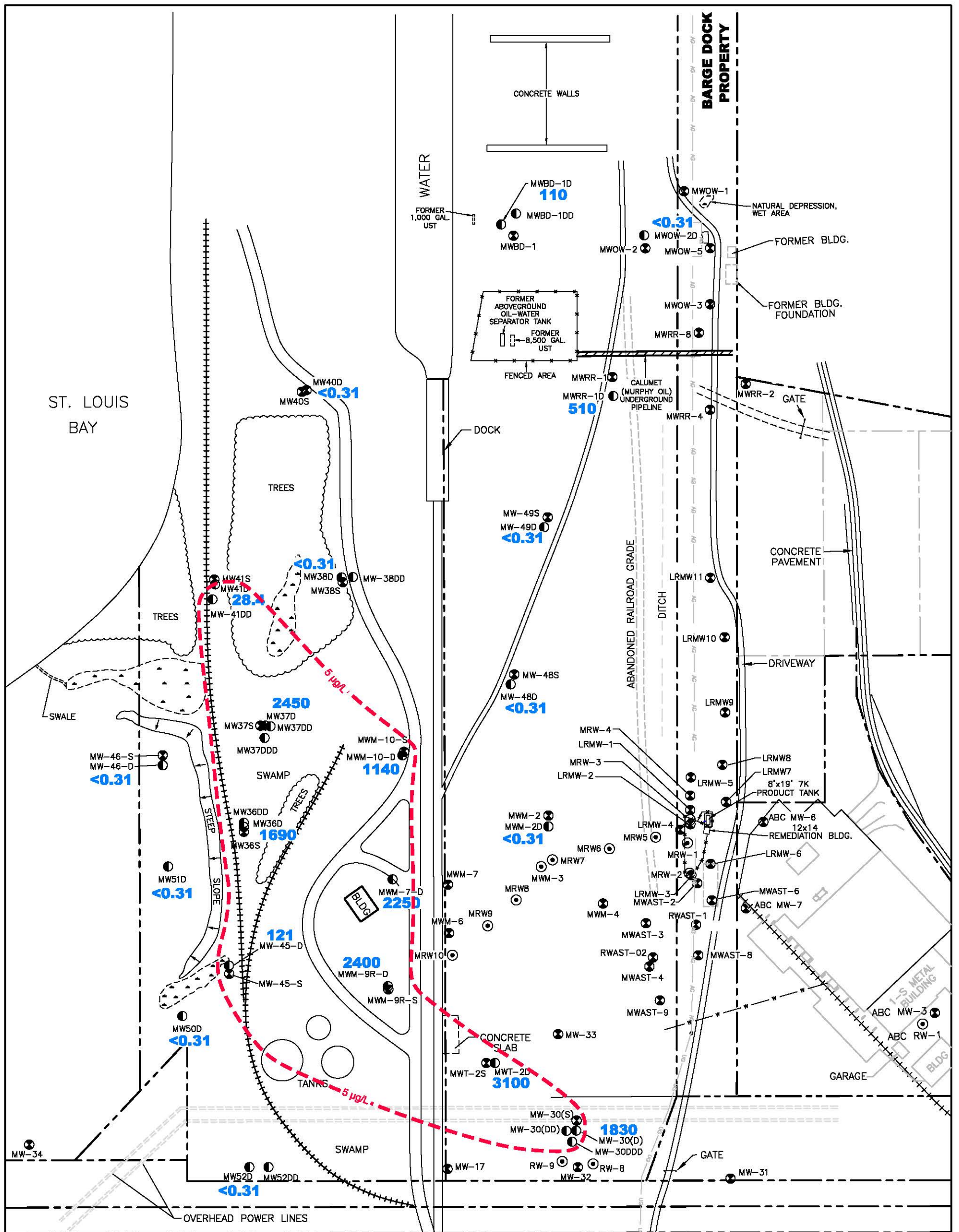


FIGURE 7
DISSOLVED PHASE BENZENE CONCENTRATIONS—
BARGE DOCK (SHALLOW WELLS)
OCTOBER 2018
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/DR
DATE 10/26/18	REVIEWED BY	FILE NAME BD-1018-BENZ





1830 BENZENE CONCENTRATION $\mu\text{g/L}$
(OCTOBER 2017)
(ES = 5 $\mu\text{g/L}$)

5 $\mu\text{g/L}$ INFERRED HORIZONTAL EXTENT
OF BENZENE CONTAMINATION
EXCEEDING THE NR 140 ES

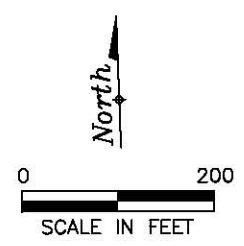
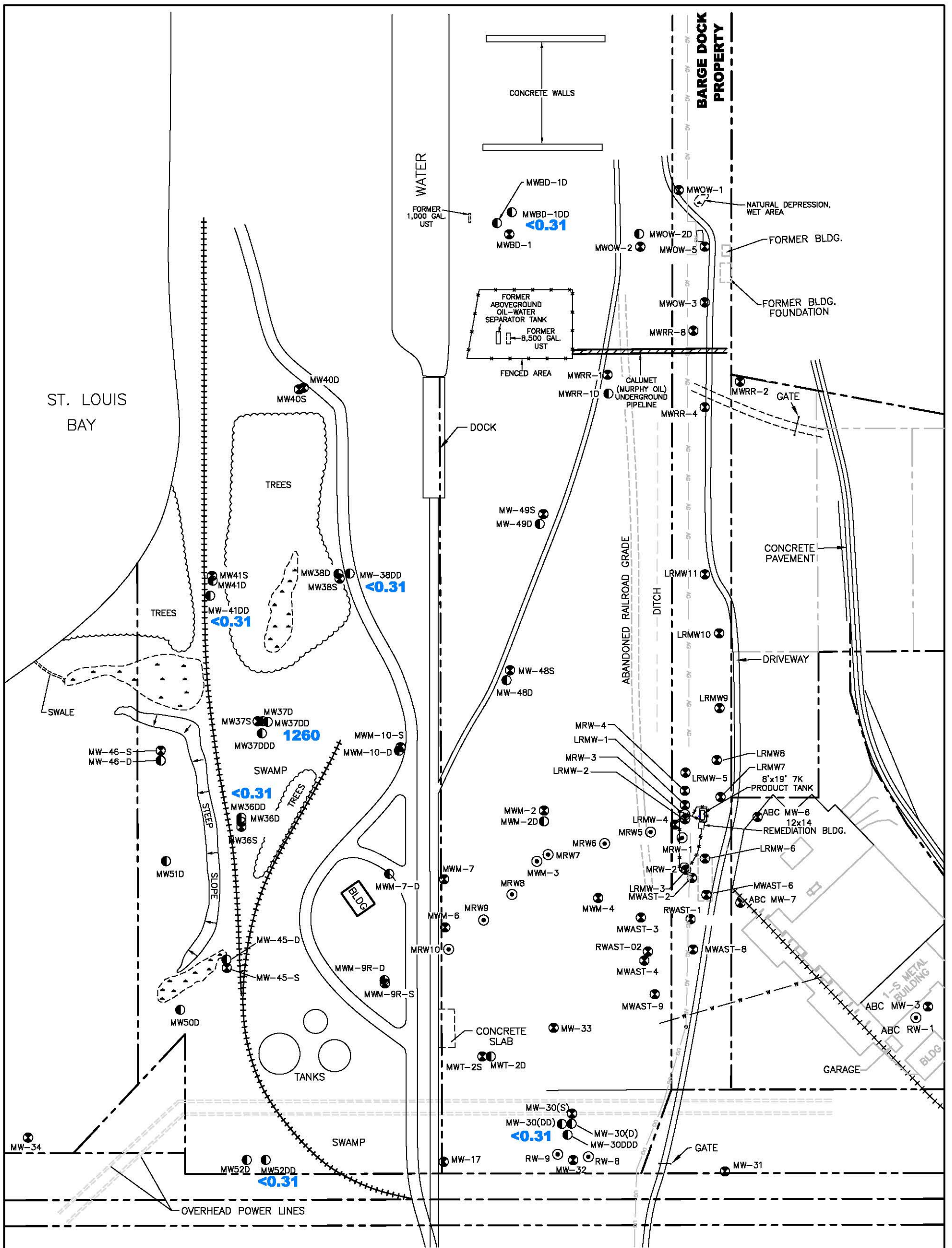


FIGURE 8
DISSOLVED PHASE BENZENE CONCENTRATIONS-
BARGE DOCK (DEEP WELLS)
OCTOBER 2018
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/DR
DATE 10/26/18	REVIEWED BY	FILE NAME BD-1018-BENZ



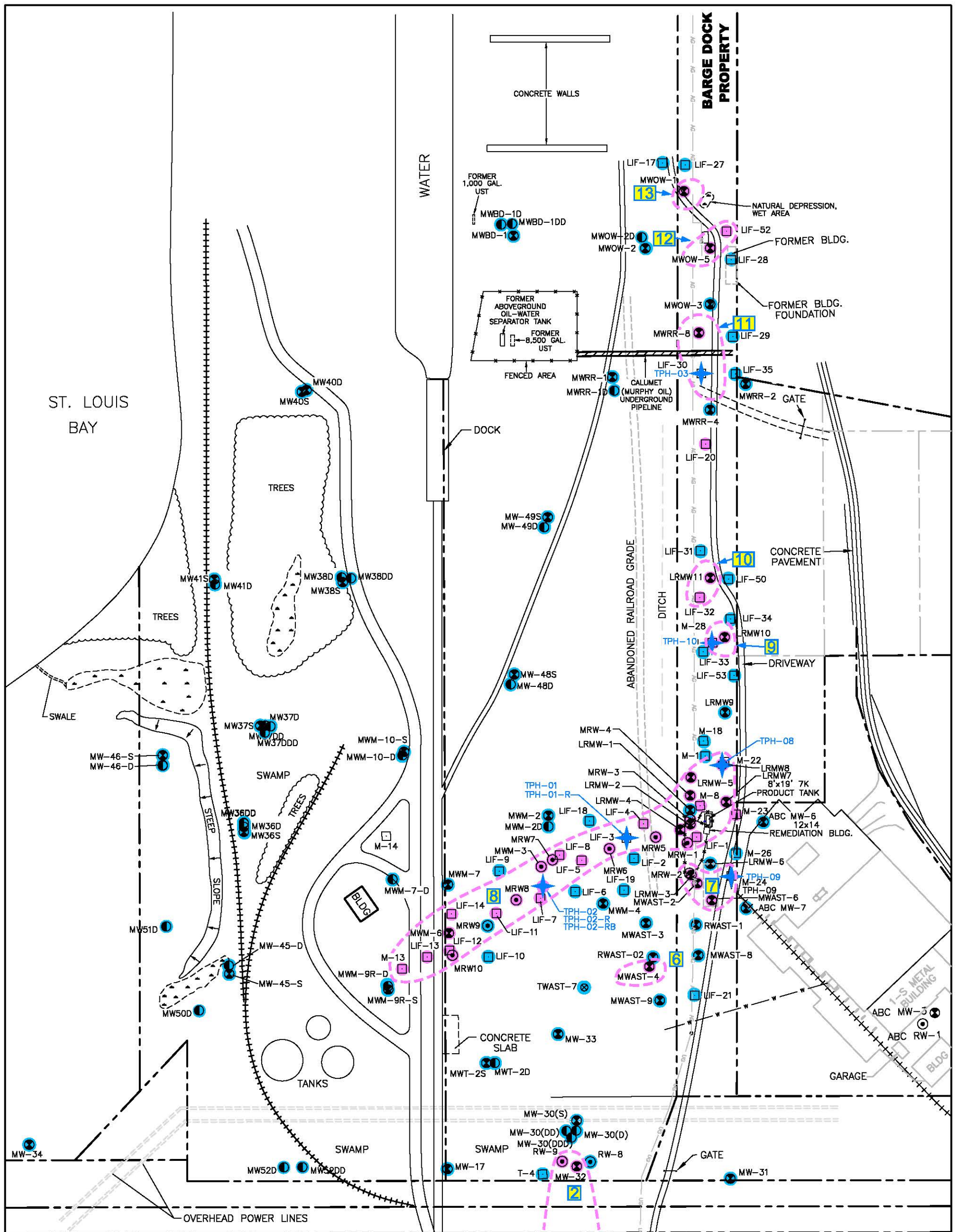
- LEGEND:**
- MONITORING WELL LOCATION
 - ⊙ DEEP MONITORING WELL LOCATIONS
 - ⊕ RECOVERY WELL LOCATION
 - ⊖ ABANDONED RECOVERY WELL LOCATION
 - NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UB — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ==== GRAVEL ACCESS ROAD
 - ++++ RAILROAD TRACKS
 - FENCE LINE
 - APPROXIMATE PROPERTY LINE

1260 BENZENE CONCENTRATION $\mu\text{g/L}$
(OCTOBER 2017)
(ES = 5 $\mu\text{g/L}$)

FIGURE 9
DISSOLVED PHASE BENZENE CONCENTRATIONS—
BARGE DOCK (DD WELLS)
OCTOBER 2018
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/DR
DATE 10/26/18	REVIEWED BY	FILE NAME BD-1018-BENZ





- ⑧ LNAPL EXTENT (INFERRED FROM LIF & WELL GAUGING DATA) (PLUME I.D. REFERENCED IN TEXT)
- POINTS WITH LNAPL
- NO LNAPL

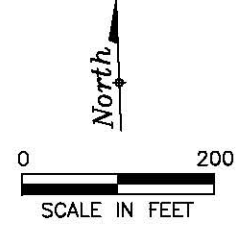
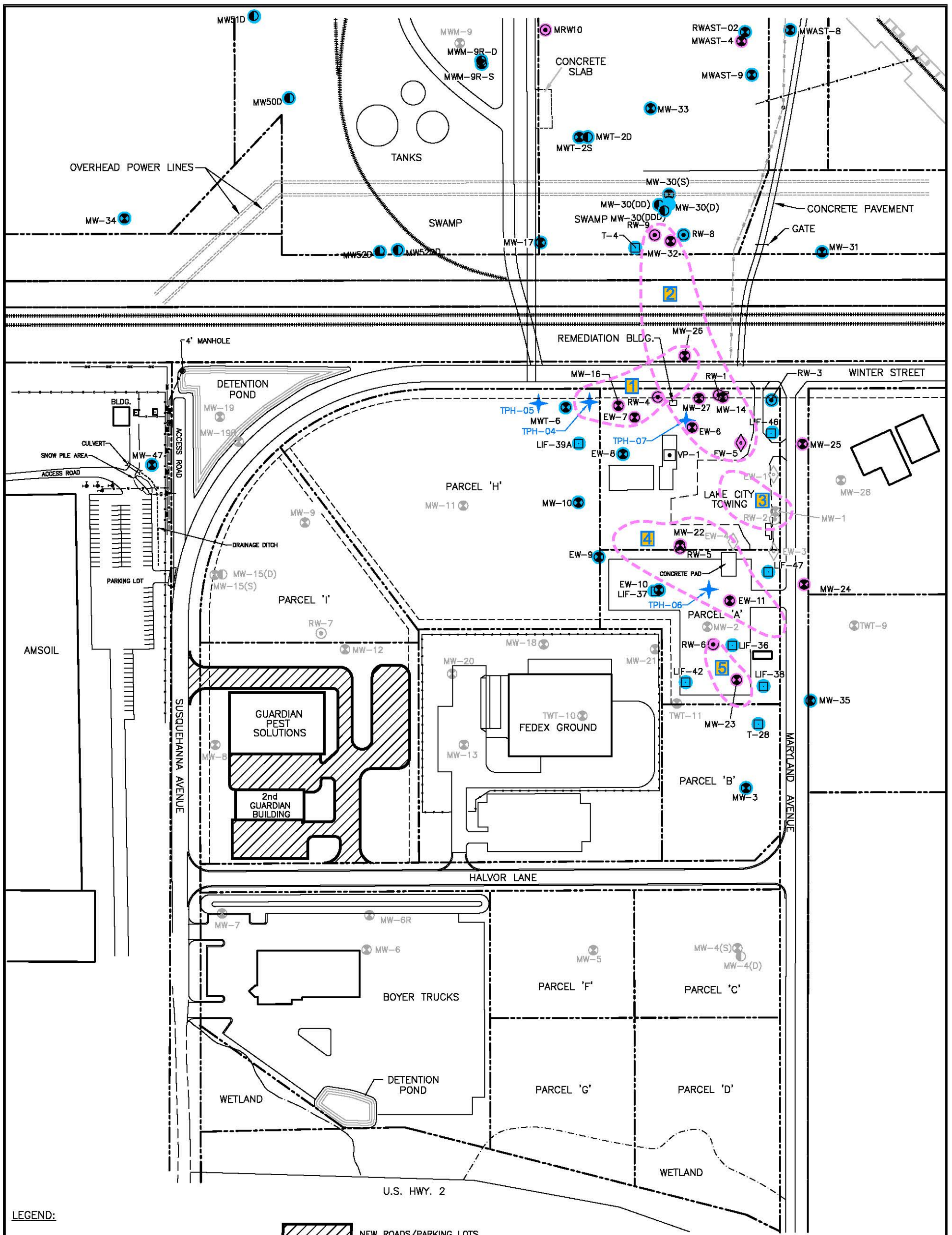


FIGURE 10
LNAPL EXTENT MAP – JUNE 2018
(BARGE DOCK)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/SA
DATE 07/18/18	REVIEWED BY	FILE NAME BD-0618-LNAPL





LEGEND:

- MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATIONS
- ABANDONED DEEP MONITORING WELL LOCATION
- ⊙ RECOVERY WELL LOCATION
- ⊙ ABANDONED RECOVERY WELL LOCATION
- ◇ SVE TOTAL FLUIDS RECOVERY WELL LOCATION
- ◇ ABANDONED SVE TOTAL FLUIDS RECOVERY WELL LOCATION
- ★ LIF-TPH BORING LOCATION
- CPT-LIF BORING LOCATION
- ⊠ VAPOR MONITORING POINT LOCATION
- ⊙ MANHOLE
- ⊕ FIRE HYDRANT
- ⊠ ELECTRICAL BOX
- ▨ NEW ROADS/PARKING LOTS
- OHE — OVERHEAD ELECTRIC LINE
- ++++ RAILROAD TRACKS
- x-x-x- FENCE LINE
- - - - APPROXIMATE PROPERTY LINE
- AG — ABOVE GROUND PIPELINE (REMOVED)
- UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
- W — WATER LINE (APPROXIMATE LOCATION)
- G — NATURAL GAS LINE (APPROXIMATE LOCATION)
- 1 LNAPL EXTENT (PLUME I.D. REFERENCED IN TEXT)
- POINTS WITH LNAPL
- LOW/NO LNAPL

NOTE: PLUME 3 IS INFERRED, BASED ON HISTORICAL DATA

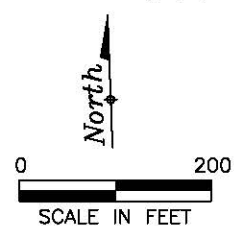


FIGURE 11
LNAPL EXTENT MAP — JUNE 2018
(TERMINAL)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP181	PREPARED BY LK	DRAWN BY DD/SAA
DATE 07/18/18	REVIEWED BY	FILE NAME TERM-0618-LNAPL



Figure 12a
Barge Dock Phase II System
LNAPL Recovery Graph
 Former Amoco Terminal
 Superior, WI

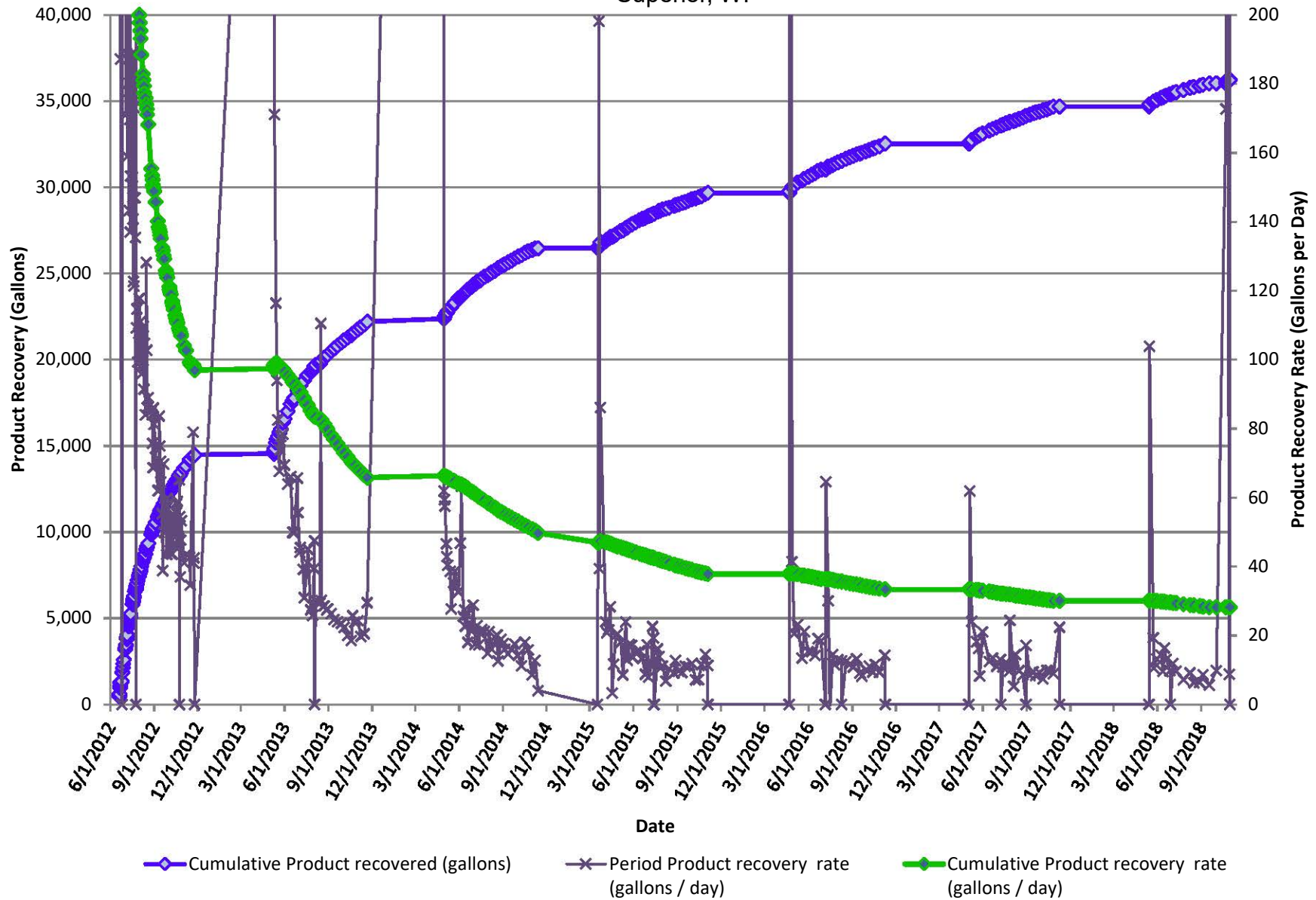


Figure 12b
Barge Dock Phase II System
LNAPL Recovery Graph
Former Amoco Terminal
Superior, WI

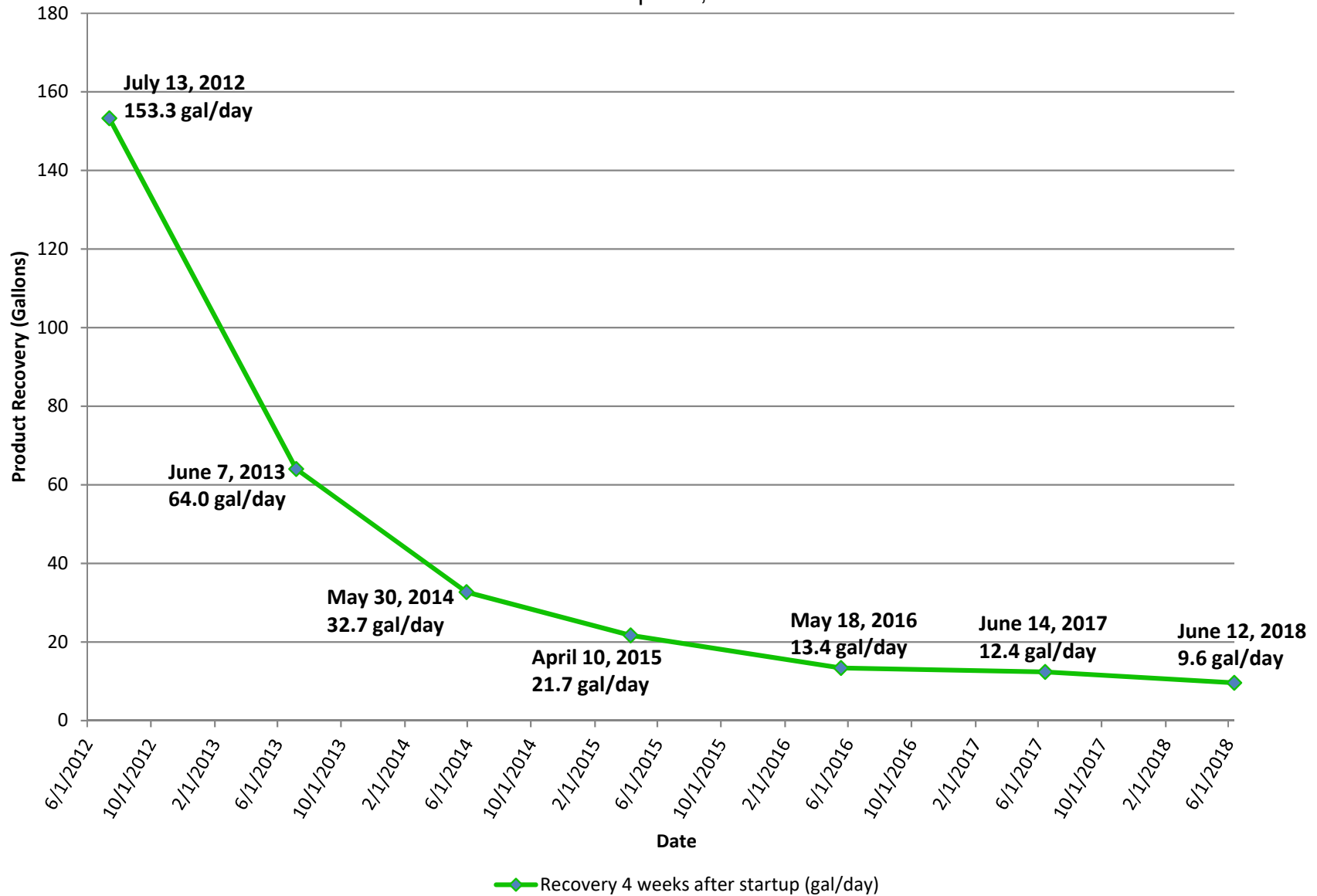


Figure 12c
Barge Dock Phase II System - LNAPL Recovery by Year
Former Amoco Terminal
Superior, WI

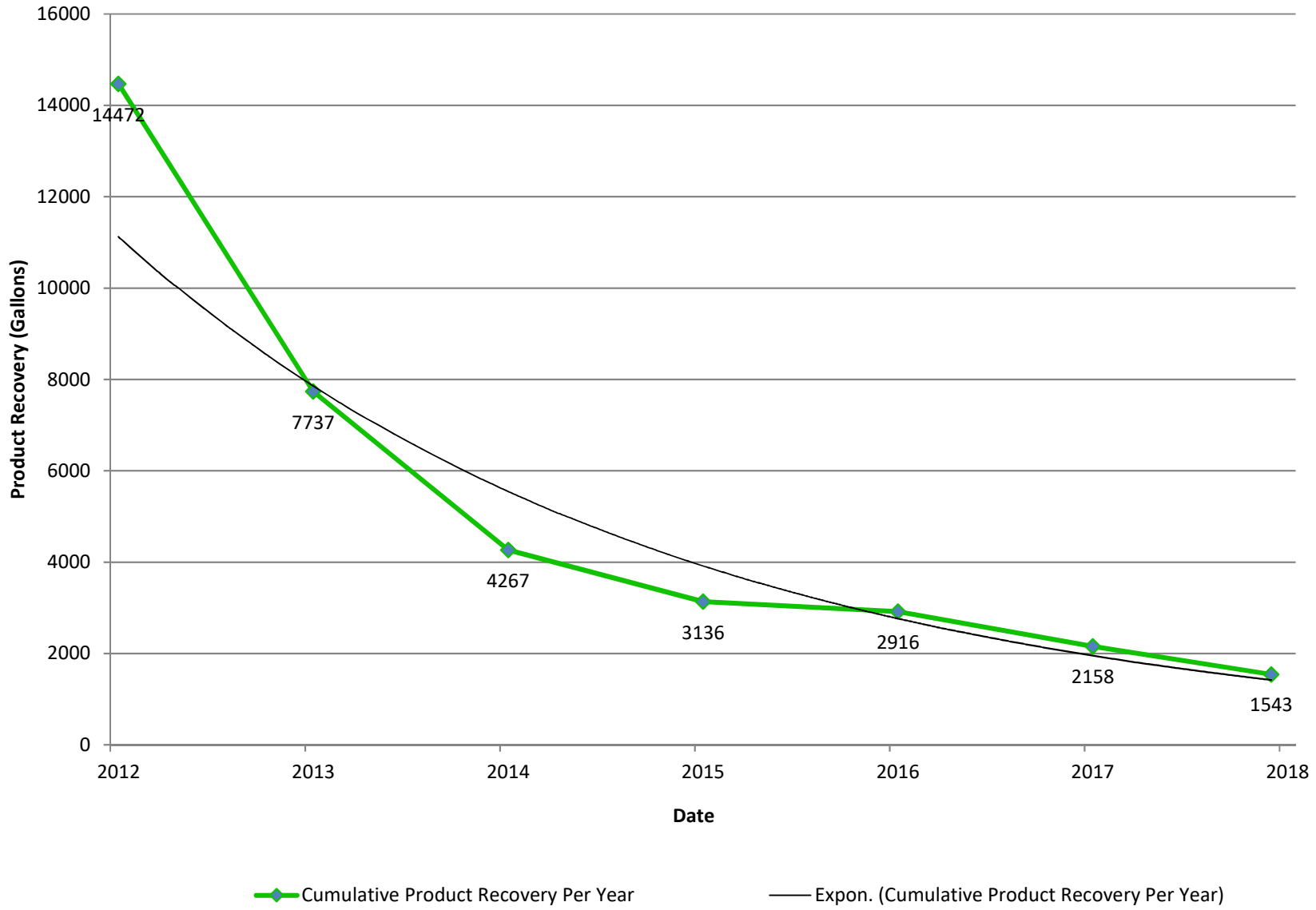


Figure 13
MRW-3 LNAPL Recovery
Former Amoco Terminal
Superior, WI

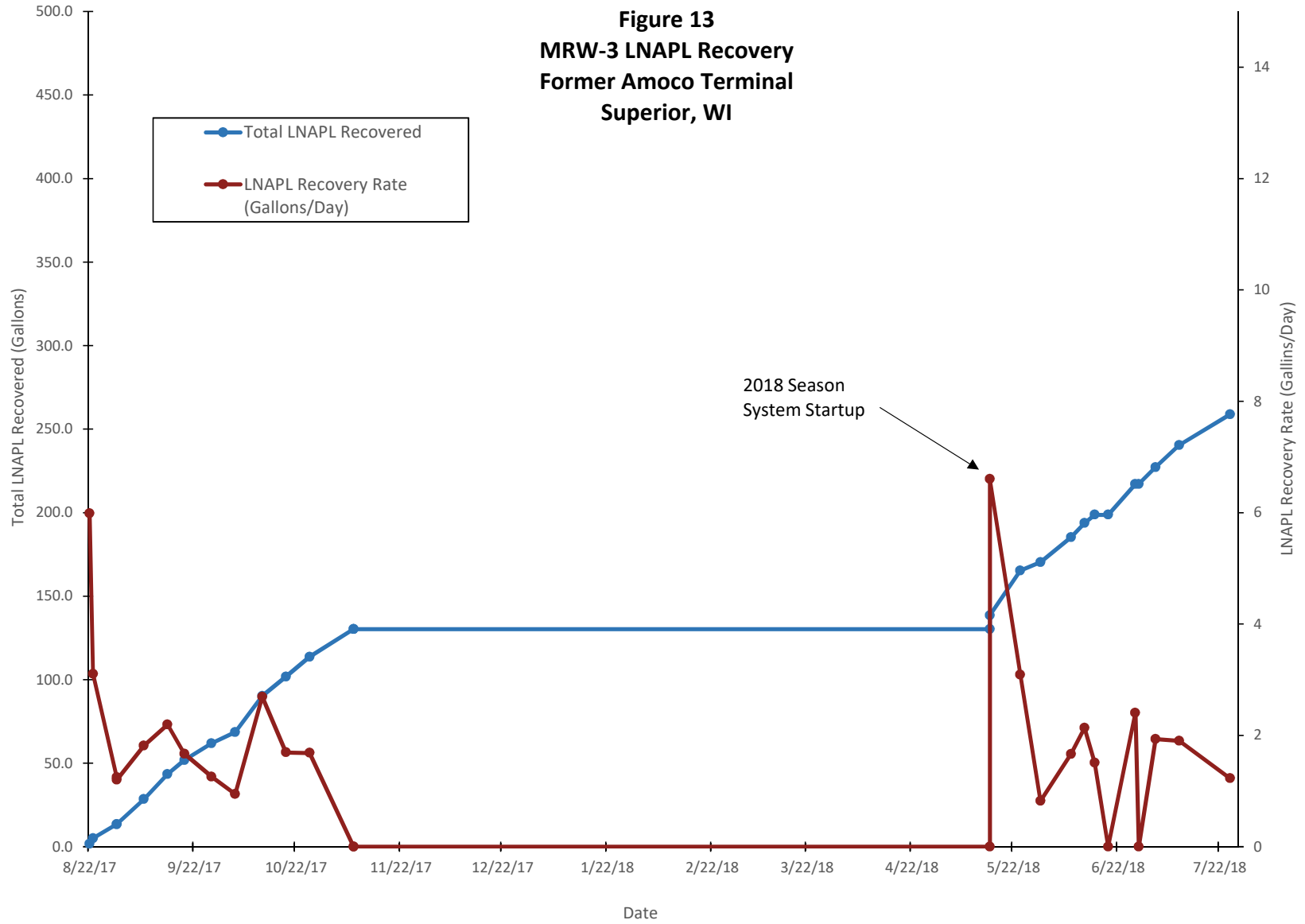


Figure 14
LRMW-7 LNAPL Recovery
Former Amoco Terminal
Superior, WI

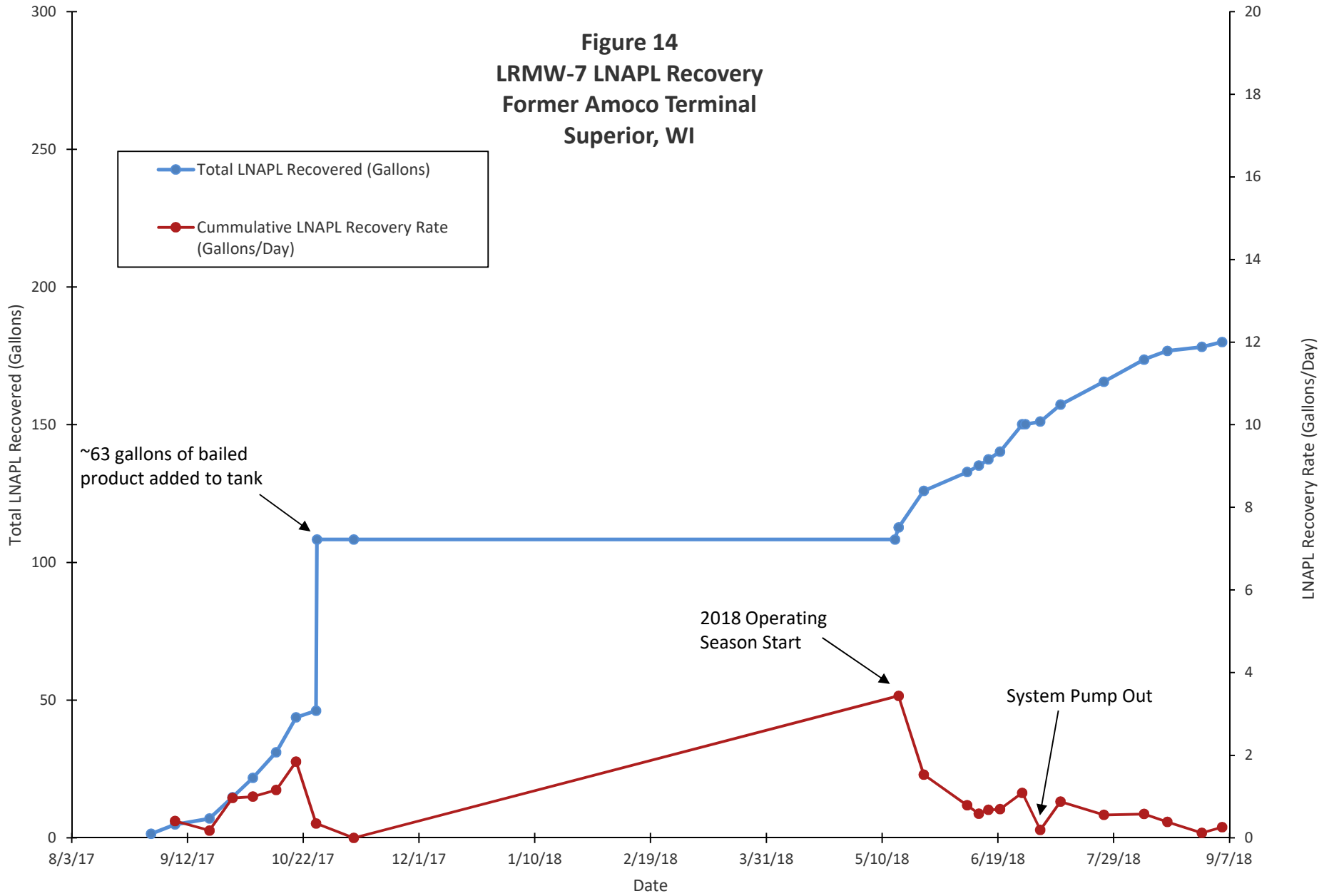
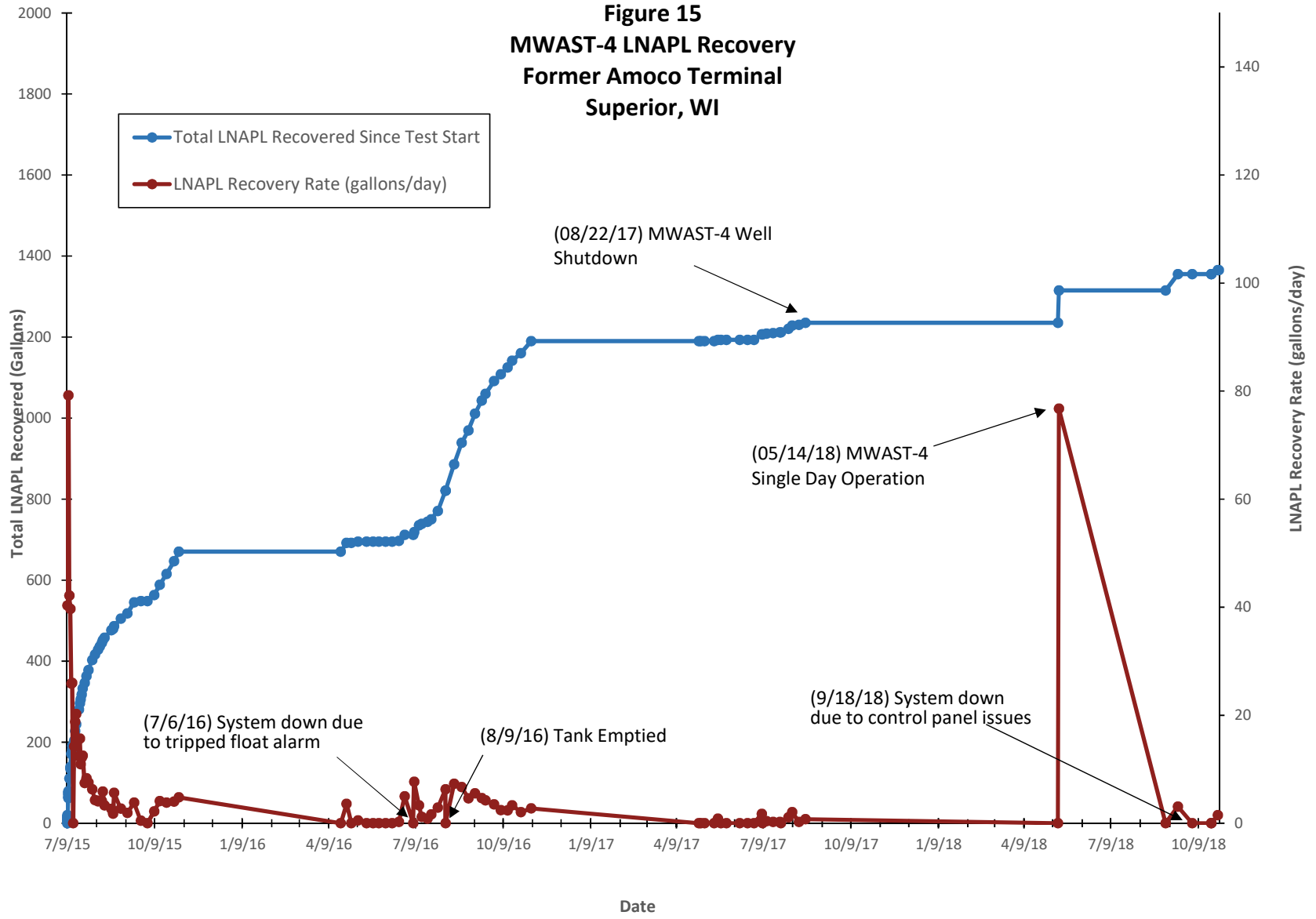


Figure 15
MWAST-4 LNAPL Recovery
Former Amoco Terminal
Superior, WI



Tables

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- Table 2 - 2018 Groundwater Sampling Plan
- Table 3 - Groundwater and LNAPL Gauging Data - Terminal
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- Table 5 - Groundwater Analytical Results - Terminal
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- Table 8 - MWAST-4 LNAPL Recovery Test Summary
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Table 1
Gauge and Bail 2018

Well	2018 Season	5/14/2018			5/15/2018			5/23/2018			5/24/2018			5/30/2018			6/8/2018			6/12/2018			6/15/2018		
	TOTAL BAILED	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)
RW-8		14.56	14.64	--				14.62	14.7	--				14.27	14.31	--									
RW-9	0.55	14.72	15.2	--				14.85	15.33	0.25	14.85	15.25	--	14.49	14.86	0.2									
MW-32	2.05	--	17.5	--				17.59	17.81	0.25	17.58	17.7	--	--	17.25	--									
MWM-6	0.3	15.32	15.9	--	15.75	15.95	0.25	15.63	15.83	--															
MWM-7																									
MWM-7D																									
MRW-9		--	15.18	--				--	15.28	--				--	14.85	--	--	14.47	--						
MRW-10	0.75	15.28	15.6	--	15.66	15.95	0.25	15.44	15.75	--				15.01	15.33	--	14.63	14.95	0.5						
MWAST-2																									
MWAST-3		--	13.72	--										--	13.52	--									
MWAST-6																									
LRMW-1														--	13.82	--									
LRMW-2																									
LRMW-3																									
LRMW-4																									
LRMW-5																									
LRMW-6														--	16.22	--									
LRMW-7	26.5	12.26	19.62	6	13.49	16.45	--	14.45	14.57	--	14.4	14.55	--	13.64	14.43	--	13.2	13.21	--	13.35	13.4	--	12.71	15.23	--
LRMW-8																									
LRMW-9														--	12.2	--									
LRMW-10																									
LRMW-11	1.3																								
MRW-1		14.44	14.5																						
MRW-2		14.5	14.56																						
MRW-3	57.5	13.17	20.09	14.5	13.97	18.02	--	15.47	16.45	--	15.26	15.95	--	14.49	15.75	--	13.99	14.46	--	14.2	14.43	--	--	14.5	--
MRW-4																									
MWBD-1																									
MWRR-1																									
MWRR-2																									
MWRR-4														--	16.28	--									
MWRR-8														15.4	15.45	--									
MWOW-1	0.1													5.21	5.25	--									
MWOW-2																									
MWOW-3																									
MWOW-5														14.94	14.97	--									
RWAST-1														--	13.28										
RWAST-2		--	15.02	--										--	14.8										
MWAST-8														--	15.12										
MWAST-9		--	14.94	--																					
MWM-4																									
MWAST-4	13.5	14.38	16	--	14.96	15.15	--	14.6	15.2	3	14.55	16.25	--	14.32	14.68	--	13.89	14.86	--						
MRW-5		11.75	18.83	--	13.41	13.72	--	13.7	14.00	--	13.64	13.91	--	13.03	13.26	--	12.49	12.79	--	12.64	12.92	--	12.71	13	--
MRW-6		12.26	20.31	--	14.1	14.41	--	14.33	14.69	--	14.3	14.6	--	13.76	14.04	--	13.28	13.57	--	13.39	13.72	--			
MRW-7		14.03	25.34	--	16.59	16.8	--	16.8	17.08	--	16.76	17	--	16.28	16.48	--	15.85	16.04	--	16	16.23	--			
MWM-2																									
MWM-2D																									
MWM-3		--	14.11	--	17.06	17.2	--	17.4	17.7	--	17.25	17.4	--	--	16.81	--	16.44	16.46	--	16.47	16.65	--			
MWM-9RS																									
MWM-9RD																									
MWM-10S																									
MWM-10D																									
MRW-8								16.5	16.78	--	16.46	16.7	--	16.06	16.28	--	15.78	15.86	--	15.67	15.92	--			
MWT-2S																									
MWT-2D																									
MWT-6								20.3	20.43	--															
MW-16	1.25				20.23	25.76	1	20.13	25.78	0.25															
RW-4								19.4	21.5	--															
RW-1	15				20.26	23.73	12	20.5	22.6	3															
MW-14								--	19.44	--															
MW-17																									
RW-3																									
MW-22																									
EW-6																									
EW-7																									
EW-8																									
EW-9																									

Table 1
Gauge and Bail 2018

Well	2018 Season	5/14/2018			5/15/2018			5/23/2018			5/24/2018			5/30/2018			6/8/2018			6/12/2018			6/15/2018			
	TOTAL BAILED	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	
EW-10																										
EW-11																										
RW-5																										
RW-6																										
MW-10																										
MW-23																										
MW-27	0.5				20.45	21.26	0.25	20.35	21.15	0.25																
MW-3																										
MW-30S		--	16.00	--																						
MW-30D		--	17.74	--																						
MW-30DD		--	17.91	--																						
MW-31																										
MW-33																										
MW-34																										
MW-35																										
MW-38D																										
MW-38S																										
MW-40S																										
MW-40D																										
MW-37S																										
MW-37D																										
MW-37DD																										
MW-37DDD																										
MW-36S																										
MW-36D																										
MW-36DD																										
MW-41S																										
MW-41D																										
MW-41DD																										
MW-46S																										
MW-46D																										
MW-45D																										
MW-45S																										
MW-48S																										
MW-48D																										
MW-49S																										
MW-49D																										
MWBD-1D																										
MW-24																										
MW-25																										
MWRR-1D																										
MW-30DDD																										
MW-38DD																										
MW-50D																										
MW-51D																										
MW-52D																										
MW-52DD																										
MWOW-2D																										
MWBD-1DD																										
MW-26																										
TOTAL				20.5			13.75			7			0			0.2			0.5			0			0	

Table 1
Gauge and Bail 2018

Well	2018 Season	6/19/2018			6/27/2018			6/28/2018			7/3/2018			7/10/2018			7/25/2018			8/8/2018			8/16/2018		
	TOTAL BAILED	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)
RW-8											13.18	13.20	--							14.16	14.2	--	14.45	14.55	--
RW-9	0.55										13.43	13.58	<0.1							14.42	14.56	--	14.71	14.89	0.1
MW-32	2.05										15.99	16.95	0.2	16.86	17.91	0.25	16.59	17.05	--	17.1	17.2	--	17.35	17.85	0.1
MWM-6	0.3																			15.5	15.75	--			
MWM-7																									
MWM-7D		--	10.7	--	--	10.72	--																		
MRW-9																				--	15.05	--			
MRW-10	0.75										14.16	14.23	--							15.3	15.38	--	15.55	15.63	--
MWAST-2																									
MWAST-3		--	11.85	--																					
MWAST-6																									
LRMW-1					--	12.75	--																		
LRMW-2																									
LRMW-3																									
LRMW-4																									
LRMW-5																									
LRMW-6		--	14.86	--																					
LRMW-7	26.5	11.72	13.26	--	12.76	13		12.76	13	--				12.88	12.91	--	13.75	14.35	--	14.34	14.64	--	14.76	15.00	--
LRMW-8																									
LRMW-9		--	10.75	--	--	11.24																			
LRMW-10																				15.14	15.23	--			
LRMW-11	1.3																			16.14	17.17	1	16.64	16.95	0.1
MRW-1																									
MRW-2																									
MRW-3	57.5	12.1	15.49	--	13.35	14.2	--	13.35	14.2	--	13.56	13.64		13.78	13.92	--	14.6	15.35	--	15.1	15.91	--	15.68	15.83	--
MRW-4																									
MWBD-1																									
MWRR-1																									
MWRR-2																									
MWRR-4		--	15.79	--																					
MWRR-8																									
MWOW-1	0.1																								
MWOW-2																									
MWOW-3																									
MWOW-5																									
RWAST-1		--	11.67	--	--	11.90	--																		
RWAST-2		--	13.12	--	--	13.34	--																		
MWAST-8		--	13.4	--	--	13.66	--																		
MWAST-9																									
MWM-4																									
MWAST-4	13.5							12.45	13.6	--	12.47	13.64	1.5	12.55	13.8	1	13.23	14.65	--	13.75	15.45	3	13.97	16.11	5
MRW-5		11.68	11.69	--				12.95	13.92	--	12.01	12.24	--	12.18	12.55	--	12.68	15.23	--	13.65	13.97	--	14.1	14.35	--
MRW-6		12.46	12.47	--				12.75	13.15	--	12.7	13.02	--	12.95	13.3	--	13.76	14.75	--	14.36	14.72	--	14.75	15.1	--
MRW-7		14.99	15	--				15.25	16.2	--	15.32	15.57	--	15.6	15.85	--	16.1	18.1	--	16.9	17.18	--	17.25	17.52	--
MWM-2																									
MWM-2D			14.6																						
MWM-3		pump obstruction						--	--	pump	15.85	16.00	--	16.2	16.35	--	Pump Obstruction			17.39	17.65	--	Pump Obstruction		
MWM-9RS																									
MWM-9RD		--	12.37	--	--	12.34	--																		
MWM-10S																									
MWM-10D		--	8.9	--	--	8.99	--																		
MRW-8		14.81	14.98	--				15.18	17.2	--	15.09	15.35	--	15.3	15.58	--	15.75	17.38	--	16.45	16.72	--	16.73	17.00	--
MWT-2S																									
MWT-2D		--	16.22	--	--	16.12	--																		
MWT-6																									
MW-16	1.25																								
RW-4																									
RW-1	15																								
MW-14																									
MW-17																									
RW-3																									
MW-22																									
EW-6																									
EW-7																									
EW-8																									
EW-9																									

Table 1
Gauge and Bail 2018

Well	2018 Season	6/19/2018			6/27/2018			6/28/2018			7/3/2018			7/10/2018			7/25/2018			8/8/2018			8/16/2018				
	TOTAL BAILED	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)		
EW-10																											
EW-11																											
RW-5																											
RW-6																											
MW-10																											
MW-23																											
MW-27	0.5																										
MW-3																											
MW-30S		--	14.2	--	--	14.2	--																				
MW-30D		--	16.45	--	--	16.3	--																				
MW-30DD		--	16.7	--																							
MW-31																											
MW-33																											
MW-34																											
MW-35																											
MW-38D		--	2.95	--																							
MW-38S																											
MW-40S																											
MW-40D		--	1.42	--																							
MW-37S																											
MW-37D		--	6.17	--	--	6.35	--																				
MW-37DD		--	5.53	--	--	5.62	--																				
MW-37DDD		--	6.35	--	--	6.43	--																				
MW-36S																											
MW-36D		--	7.35	--	--	7.45	--																				
MW-36DD			7.08																								
MW-41S																											
MW-41D		--	2.32	--																							
MW-41DD		--	3.58	--	--	5.1	--																				
MW-46S																											
MW-46D		--	15.9	--																							
MW-45D		--	9.82	--	--	9.85	--																				
MW-45S																											
MW-48S		--	12.7	--																							
MW-48D		--	13.2	--																							
MW-49S		--	12.12	--																							
MW-49D		--	12.77	--																							
MWBD-1D		--	3.45	--																							
MW-24																											
MW-25																											
MWRR-1D		--	7.4	--	--	14.08	--																				
MW-30DDD		--	16.38	--	--	16.27	--																				
MW-38DD		--	3.28	--																							
MW-50D		--	16.65	--																							
MW-51D		--	14.98	--																							
MW-52D		--	18.35	--																							
MW-52DD		--	19.52	--																							
MWOW-2D		--	2.62	--																							
MWBD-1DD		--	1.35	--																							
MW-26																											
TOTAL				0			0			0			1.7			1.25			0			4				5.3	

Table 1
Gauge and Bail 2018

Well	2018 Season	8/28/2018			9/4/2018			9/17/2018			10/2/2018			10/16/2018			10/22/2018			10/29/2018		
	TOTAL BAILED	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)
RW-8											14.17	14.18	--	--	12.95		--	12.99		13.12	13.13	--
RW-9	0.55										14.44	14.50	--	13.18	13.19		--	13.21		13.35	13.37	--
MW-32	2.05										--	17.12	--	15.7	16.82	0.5	15.71	16.91	0.5	15.85	16.86	0.25
MWM-6	0.3																			14.45	14.75	0.05
MWM-7																						
MWM-7D																						
MRW-9																						
MRW-10	0.75				15.51	15.58	--				15.25	15.32	--							14.29	14.38	--
MWAST-2																						
MWAST-3																						
MWAST-6																						
LRMW-1																						
LRMW-2																						
LRMW-3																						
LRMW-4																						
LRMW-5																						
LRMW-6																						
LRMW-7	26.5	13.96	14.39	--	13.73	17.08	2.5				12.57	18.94	4.5	10.96	18.85	7	11.88	16.75	4	12.12	15.73	2.5
LRMW-8																						
LRMW-9																						
LRMW-10											14.87	14.93	--				13.96	14.01	--			
LRMW-11	1.3										16.04	16.34	0.2				15.21	15.28	--			
MRW-1																						
MRW-2																						
MRW-3	57.5	15.64	16.21	--	15.3	15.94	--				13.60	19.62	14	11.82	19.27	14	12.68	17.44	7	12.64	17.62	8
MRW-4																						
MWBD-1																						
MWRR-1																						
MWRR-2																						
MWRR-4																						
MWRR-8																				15.57	15.56	--
MWOW-1	0.1																5.32	5.58	--	5.2	5.47	0.1
MWOW-2																						
MWOW-3																	--	16.98	--			
MWOW-5																	15.03	15.06	--			
RWAST-1																						
RWAST-2																						
MWAST-8																						
MWAST-9																						
MWM-4																						
MWAST-4	13.5				14.3	16.38	--	14.80	15.30	--	SYSTEM DOWN			SYSTEM DOWN			13.6	14.51	--	13.6	14.37	--
MRW-5					13.89	14.2	--	13.79	14.08	--	SYSTEM DOWN			SYSTEM DOWN			12.45	12.71	--	12.39	12.66	--
MRW-6					14.63	14.95	--	14.92	15.11	--	SYSTEM DOWN			SYSTEM DOWN			13.26	13.48	--	13.14	13.44	--
MRW-7					17.15	17.38	--	17.05	17.20	--	SYSTEM DOWN			SYSTEM DOWN			15.9	16.08	--	15.69	15.94	--
MWM-2																						
MWM-2D																						
MWM-3					Pump Obstruction			17.47	17.64	--	SYSTEM DOWN			SYSTEM DOWN			16.5	16.57	--	16.34	16.44	--
MWM-9RS																						
MWM-9RD																						
MWM-10S																						
MWM-10D																						
MRW-8					16.66	16.84	--	16.53	16.76	--	SYSTEM DOWN			SYSTEM DOWN			16.24	16.44	--	15.35	15.54	--
MWT-2S																						
MWT-2D																						
MWT-6																						
MW-16	1.25																					
RW-4																						
RW-1	15																					
MW-14																						
MW-17																						
RW-3																						
MW-22																						
EW-6																						
EW-7																						
EW-8																						
EW-9																						

Table 1
Gauge and Bail 2018

Well	2018 Season	8/28/2018			9/4/2018			9/17/2018			10/2/2018			10/16/2018			10/22/2018			10/29/2018			
	TOTAL BAILED	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	DTP	DTW	Bailed (gal)	
EW-10																							
EW-11																							
RW-5																							
RW-6																							
MW-10																							
MW-23																							
MW-27	0.5																						
MW-3																							
MW-30S																							
MW-30D																							
MW-30DD																							
MW-31																							
MW-33																							
MW-34																							
MW-35																							
MW-38D																							
MW-38S																							
MW-40S																							
MW-40D																							
MW-37S																							
MW-37D																							
MW-37DD																							
MW-37DDD																							
MW-36S																							
MW-36D																							
MW-36DD																							
MW-41S																							
MW-41D																							
MW-41DD																							
MW-46S																							
MW-46D																							
MW-45D																							
MW-45S																							
MW-48S																							
MW-48D																							
MW-49S																							
MW-49D																							
MWBD-1D																							
MW-24																							
MW-25																							
MWRR-1D																							
MW-30DDD																							
MW-38DD																							
MW-50D																							
MW-51D																							
MW-52D																							
MW-52DD																							
MWOW-2D																							
MWBD-1DD																							
MW-26																							
TOTAL				0			2.5			0			18.7			21.5			11.5			10.9	

Table 2
Groundwater Sampling Plan - 2018
Former Amoco Terminal
Superior, Wisconsin

Area/Well	Last Benzene µg/l	2018 Spring Sampling	2018 Fall Sampling	Semi-Annual Gauge DTW/LNAPL	Annual Gauge DTW/LNAPL
EW-5	LNAPL				X
EW-6	LNAPL				X
EW-7	LNAPL				X
EW-8	407				X
EW-9	28.1				X
EW-10	1.4				X
EW-11	LNAPL				X
MW-10	3.1				X
MW-14	LNAPL				X
MW-16	LNAPL			X	X
MW-17	<0.40				X
MW-22	LNAPL				X
MW-23	LNAPL				X
MW-24	LNAPL				X
MW-25	LNAPL				X
MW-26	LNAPL				X
MW-27	LNAPL			X	X
MW-30D	1850	X	X	X	X
MW-30DD	<0.40	X	X	X	X
MW-30S	1420	X	X	X	X
MW-30DDD	N/A	X	X	X	X
MW-31	<0.40				X
MW-32	LNAPL			X	X
MW-33	<0.40				X
MW-36D	1920	X	X	X	X
MW-36DD	<0.40	X	X	X	X
MW-36S	<0.40		X		X
MW-37D	3020	X	X	X	X
MW-37DD	1060	X	X	X	X
MW-37S	<0.40		X		X
MW-37DDD	N/A	X	X	X	X
MW-38D	<0.40	X	X	X	X
MW-38S	<0.40		X		X
MW-38DD	N/A	X	X	X	X
MW-40D	<0.40	X	X	X	X
MW-40S	<0.40		X		X
MW-41D	18.2	X	X	X	X
MW-41S	<0.40		X		X
MW-41DD	N/A	X	X	X	X
MW-45D	144	X	X	X	X
MW-45S	<0.40		X		X
MW-46D	<0.40	X	X	X	X
MW-46S	<0.40		X		X
MW-48S	<0.40	X	X	X	X
MW-48D	<0.40	X	X	X	X
MW-49S	<0.40	X	X	X	X
MW-49D	<0.40	X	X	X	X
MW-50D	N/A	X	X	X	X
MW-51D	N/A	X	X	X	X
MW-52D	N/A	X	X	X	X
MW-52DD	N/A	X	X	X	X
MWT-2D	3300	X	X	X	X
MWT-2S	<1.0		X		X
MWT-6	LNAPL				X
RW-1	LNAPL			X	X
RW-3	4560				X
RW-4	LNAPL			X	X
RW-5	LNAPL				X
RW-6	LNAPL			X	X
RW-8	LNAPL				X
RW-9	LNAPL			X	X
MW-3	7.6				X
MW-35	<0.40				X
MW-34	<0.40				X
MW-47	<0.40				X
MWAST-2	LNAPL				X
MWAST-3	207	X		X	X
MWAST-4	LNAPL				X
MWAST-6	LNAPL				X
MWAST-8	No LNAPL	X		X	X
MWAST-9	93.2				X

Table 2
Groundwater Sampling Plan - 2018
 Former Amoco Terminal
 Superior, Wisconsin

Area/Well	Last Benzene µg/l	2018 Spring Sampling	2018 Fall Sampling	Semi-Annual Gauge DTW/LNAPL	Annual Gauge DTW/LNAPL
RWAST-1	No LNAPL	X		X	X
RWAST-2	No LNAPL	X		X	X
LRMW-1	No LNAPL	X		X	X
LRMW-2	LNAPL				X
LRMW-3	LNAPL				X
LRMW-4	LNAPL				X
LRMW-5	LNAPL				X
LRMW-6	1130	X		X	X
LRMW-7	LNAPL			X	X
MWM-2	<0.40				X
MWM-2D	<0.40	X	X	X	X
MWM-3	LNAPL				X
MWM-4	1.0				X
MWM-6	LNAPL				X
MWM-7	4				X
MWM-7D	1980	X	X	X	X
MWM-9RD	2470	X	X	X	X
MWM-9RS	<0.40				X
MWM-10D	1080	X	X	X	X
MWM-10S	<0.40				X
MRW-1	LNAPL				X
MRW-2	LNAPL				X
MRW-3	LNAPL			X	X
MRW-4	LNAPL				X
MRW-5	LNAPL				X
MRW-6	LNAPL				X
MRW-7	LNAPL				X
MRW-8	LNAPL				X
MRW-9	LNAPL				X
MRW-10	LNAPL				X
LRMW-8	LNAPL				X
LRMW-9	2000	X		X	X
LRMW-10	LNAPL				X
LRMW-11	LNAPL				X
MWRR-1	<0.40				X
MWRR-1D	N/A	X	X	X	X
MWRR-2	17.6				X
MWRR-4	676	X		X	X
MWRR-8	LNAPL				X
MWOW-1	LNAPL				X
MWOW-2	0.44J				X
MWOW-2D	N/A	X	X	X	X
MWOW-3	36.8				X
MWOW-5	LNAPL				X
MWBD-1	<0.40				X
MWBD-1D	148	X	X	X	X
MWBD-1DD	N/A	X	X	X	X
Totals:		41	41	50	118

NOTES:

X..... = Wells included in the Amoco Barge Dock-Mainfold & AST Area 2017 Sampling Plan

<..... = The compound was not detected at or above the indicated method detection limit. Unlisted detection limit concentrations were unavailable.

µg/L = Micrograms per liter (equivalent to parts per billion)

LNAPL = LNAPL in Well

No LNAPL = No LNAPL in Well, has not been sampled

"BOLD" = The indicated concentration exceeds the NR 140 ES of 5 µg/L

NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	03/23/88	635.20	637.80	612.70	603.70	20.62	4.97	25.59	19.14	616.06	Yes	
MW-01	09/08/88	635.20	637.80	612.70	603.70	20.30	4.95	25.25	18.82	616.38	Yes	
MW-01	09/20/88	635.20	637.80	612.70	603.70	20.56	4.42	24.98	18.96	616.24	Yes	
MW-01	04/27/89	635.20	637.80	612.70	603.70	20.56	2.25	22.81	18.47	616.73	Yes	
MW-01	05/18/89	635.20	637.80	612.70	603.70	20.06	5.02	25.08	18.59	616.61	Yes	
MW-01	06/30/89	635.20	637.80	612.70	603.70	19.43	4.10	23.53	17.76	617.44	Yes	
MW-01	07/12/89	635.20	637.80	612.70	603.70	19.82	4.22	24.04	18.17	617.03	Yes	
MW-01	07/26/89	635.20	637.80	612.70	603.70	19.98	6.31	26.29	18.81	616.39	Yes	
MW-01	07/27/89	635.20	637.80	612.70	603.70	20.03	6.87	26.90	18.98	616.22	Yes	
MW-01	09/03/89	635.20	637.80	612.70	603.70	20.19	3.97	24.16	18.49	616.71	Yes	
MW-01	11/16/89	635.20	637.80	612.70	603.70	20.12	9.52	29.64	19.67	615.53	Yes	
MW-01	11/29/89	635.20	637.80	612.70	603.70	20.32	9.62	29.94	19.89	615.31	Yes	
MW-01	12/01/89	635.20	637.80	612.70	603.70	20.42	10.70	31.12	20.24	614.96	Yes	
MW-01	12/02/89	635.20	637.80	612.70	603.70	20.46	8.01	28.47	19.67	615.53	Yes	
MW-01	06/01/90	635.20	637.80	612.70	603.70	12.10	8.75	20.85	11.48	623.72	Yes	
MW-01	06/19/90	635.20	637.80	612.70	603.70	20.64	3.17	23.81	18.76	616.44	Yes	
MW-01	06/27/90	635.20	637.80	612.70	603.70	20.70	3.97	24.67	19.00	616.20	Yes	
MW-01	07/05/90	635.20	637.80	612.70	603.70	20.90	0.44	21.34	18.40	616.80	Yes	
MW-01	07/13/90	635.20	637.80	612.70	603.70	20.81	3.77	24.58	19.06	616.14	Yes	
MW-01	07/17/90	635.20	637.80	612.70	603.70	20.59	4.99	25.58	19.12	616.08	Yes	
MW-01	07/25/90	635.20	637.80	612.70	603.70	20.80	4.30	25.10	19.17	616.03	Yes	
MW-01	08/09/90	635.20	637.80	612.70	603.70	20.70	4.32	25.02	19.08	616.12	Yes	
MW-01	08/27/90	635.20	637.80	612.70	603.70	20.72	3.12	23.84	18.82	616.38	Yes	
MW-01	09/06/90	635.20	637.80	612.70	603.70	20.35	3.70	24.05	18.59	616.61	Yes	
MW-01	01/04/91	635.20	637.80	612.70	603.70	20.00	5.89	25.89	18.73	616.47	Yes	
MW-01	01/30/91	635.20	637.80	612.70	603.70	20.25	8.48	28.73	19.57	615.63	Yes	
MW-01	04/24/91	635.20	637.80	612.70	603.70	20.36	3.32	23.68	18.51	616.69	Yes	
MW-01	06/06/91	635.20	637.80	612.70	603.70	18.93	3.14	22.07	17.04	618.16	Yes	
MW-01	07/09/91	635.20	637.80	612.70	603.70	17.55	2.70	20.25	15.56	619.64	Yes	
MW-01	08/06/91	635.20	637.80	612.70	603.70	16.90	2.98	19.88	14.97	620.23	Yes	
MW-01	09/04/91	635.20	637.80	612.70	603.70	17.10	2.96	20.06	15.17	620.03	Yes	
MW-01	10/08/91	635.20	637.80	612.70	603.70	16.17	3.75	19.92	14.42	620.78	Yes	
MW-01	11/08/91	635.20	637.80	612.70	603.70	17.03	2.95	19.98	15.10	620.10	Yes	
MW-01	12/03/91	635.20	637.80	612.70	603.70	14.98	3.95	18.93	13.27	621.93	Yes	
MW-01	01/07/92	635.20	637.80	612.70	603.70	17.44	2.62	20.06	15.43	619.77	Yes	
MW-01	02/04/92	635.20	637.80	612.70	603.70	18.30	2.50	20.80	16.26	618.94	Yes	
MW-01	03/03/92	635.20	637.80	612.70	603.70	18.72	2.66	21.38	16.72	618.48	Yes	
MW-01	09/24/92	635.20	637.80	612.70	603.70	16.05	2.23	18.28	13.95	621.25	Yes	
MW-01	10/14/92	635.20	637.80	612.70	603.70	17.14	2.34	19.48	15.07	620.13	Yes	
MW-01	06/25/93	635.20	637.80	612.70	603.70	13.91	2.20	16.11	11.81	623.39	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	10/28/93	635.20	637.80	612.70	603.70	18.25	1.57	19.82	16.00	619.20	Yes	
MW-01	01/29/94	635.20	637.80	612.70	603.70	19.08	1.60	20.68	16.84	618.36	Yes	
MW-01	04/27/94	635.20	637.80	612.70	603.70	18.49	1.76	20.25	16.29	618.91	Yes	
MW-01	07/21/94	635.20	637.80	612.70	603.70	16.81	2.48	19.29	14.77	620.43	Yes	
MW-01	10/25/94	635.20	637.80	612.70	603.70	16.90	2.66	19.56	14.90	620.30	Yes	
MW-01	11/02/94	635.20	637.80	612.70	603.70	17.34	0.00	17.34	14.74	620.46	Yes	
MW-01	02/01/95	635.20	637.80	612.70	603.70	19.70	0.82	20.52	17.29	617.91	Yes	
MW-01	04/04/95	635.20	637.80	612.70	603.70	19.80	3.21	23.01	17.93	617.27	Yes	
MW-01	07/12/95	635.20	637.80	612.70	603.70	17.94	3.53	21.47	16.14	619.06	Yes	
MW-01	03/13/96	635.20	637.80	612.70	603.70	19.55	2.55	22.10	17.53	617.67	Yes	
MW-01	10/08/96	635.20	637.80	612.70	603.70	15.91	2.48	18.39	13.87	621.33	Yes	
MW-01	04/29/97	635.20	637.80	612.70	603.70	14.47	0.98	15.45	12.09	623.11	Yes	
MW-01	06/10/97	635.20	637.80	612.70	603.70	16.68	0.26	16.94	14.14	621.06	Yes	FP bailed 5/22/97
MW-01	11/03/98	635.20	637.80	612.70	603.70	17.73	2.55	20.28	15.71	619.49	Yes	
MW-01	03/02/99	635.20	637.80	612.70	603.70	19.65	0.91	20.56	17.26	617.94	Yes	
MW-01	10/07/99	635.20	637.80	612.70	603.70	15.88	0.07	15.95	13.30	621.90	Yes	
MW-01	11/09/99	635.20	637.80	612.70	603.70	18.58	0.03	18.61	15.99	619.21	Yes	bailed <0.1 gal. FP
MW-01	12/21/99	635.20	637.80	612.70	603.70	17.50	0.03	17.53	14.91	620.29	Yes	
MW-01	01/27/00	635.20	637.80	612.70	603.70	18.77	0.02	18.79	16.17	619.03	Yes	
MW-01	02/24/00	635.20	637.80	612.70	603.70	19.30	0.45	19.75	16.80	618.40	Yes	bailed 0.1 gal. FP
MW-01	03/31/00	635.20	637.80	612.70	603.70	18.98	0.04	19.02	16.39	618.81	Yes	
MW-01	04/20/00	635.20	637.80	612.70	603.70	17.74	0.36	18.10	15.22	619.98	Yes	bailed 0.2 gal. FP
MW-01	04/26/00	635.20	637.80	612.70	603.70	18.40	0.01	18.41	15.80	619.40	Yes	
MW-01	05/31/00	635.20	637.80	612.70	603.70	18.58	0.03	18.61	15.99	619.21	Yes	
MW-01	06/29/00	635.20	637.80	612.70	603.70	17.95	0.01	17.96	15.35	619.85	Yes	
MW-01	07/26/00	635.20	637.80	612.70	603.70	18.50	0.02	18.52	15.90	619.30	Yes	
MW-01	08/18/00	635.20	637.80	612.70	603.70	18.98	0.01	18.99	16.38	618.82	Yes	
MW-01	09/27/00	635.20	637.80	612.70	603.70	19.29	0.01	19.30	16.69	618.51	Yes	
MW-01	10/11/00	635.20	637.80	612.70	603.70	19.26	0.02	19.28	16.66	618.54	Yes	
MW-01	11/17/00	635.20	637.80	612.70	603.70	18.59	0.01	18.60	15.99	619.21	Yes	
MW-01	12/12/00	635.20	637.80	612.70	603.70	18.91	0.03	18.94	16.32	618.88	Yes	bailed 0.2 gal. FP
MW-01	01/18/01	635.20	637.80	612.70	603.70	19.26	0.02	19.28	16.66	618.54	Yes	bailed 0.1 gal. FP
MW-01	04/24/01	635.20	637.80	612.70	603.70	19.03	0.64	19.67	16.57	618.63	Yes	product abated using vactruck
MW-01	05/23/01	635.20	637.80	612.70	603.70	17.65	1.55	19.20	15.40	619.80	Yes	no product bailed
MW-01	06/19/01	635.20	637.80	612.70	603.70	17.49	1.56	19.05	15.24	619.96	Yes	
MW-01	07/26/01	635.20	637.80	612.70	603.70	18.81	1.03	19.84	16.44	618.76	Yes	
MW-01	08/31/01	635.20	637.80	612.70	603.70	18.85	1.12	19.97	16.50	618.70	Yes	
MW-01	09/26/01	635.20	637.80	612.70	603.70	18.88	1.39	20.27	16.59	618.61	Yes	
MW-01	10/24/01	635.20	637.80	612.70	603.70	18.72	1.52	20.24	16.46	618.74	Yes	
MW-01	12/20/01	635.20	637.80	612.70	603.70	18.76	1.19	19.95	16.43	618.77	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	01/22/02	635.20	637.80	612.70	603.70	19.37	1.39	20.76	17.08	618.12	Yes	
MW-01	02/26/02	635.20	637.80	612.70	603.70	20.07	0.96	21.03	17.69	617.51	Yes	
MW-01	03/20/02	635.20	637.80	612.70	603.70	20.23	0.89	21.12	17.83	617.37	Yes	
MW-01	04/24/02	635.20	637.80	612.70	603.70	18.63	1.88	20.51	16.45	618.75	Yes	
MW-01	05/15/02	635.20	637.80	612.70	603.70	17.95	2.11	20.06	15.83	619.37	Yes	
MW-01	06/27/02	635.20	637.80	612.70	603.70	18.43	1.53	19.96	16.18	619.02	Yes	
MW-01	07/25/02	635.20	637.80	612.70	603.70	18.40	1.65	20.05	16.17	619.03	Yes	
MW-01	08/20/02	635.20	637.80	612.70	603.70	18.10	1.34	19.44	15.80	619.40	Yes	
MW-01	09/30/02	635.20	637.80	612.70	603.70	17.12	1.33	18.45	14.82	620.38	Yes	
MW-01	11/05/02	635.20	637.80	612.70	603.70	16.73	1.34	18.07	14.43	620.77	Yes	
MW-01	12/23/02	635.20	637.80	612.70	603.70	19.04	1.09	20.13	16.69	618.51	Yes	
MW-01	01/28/03	635.20	637.80	612.70	603.70	19.79	0.96	20.75	17.41	617.79	Yes	
MW-01	02/19/03	635.20	637.80	612.70	603.70	20.11	0.76	20.87	17.68	617.52	Yes	
MW-01	04/17/03	635.20	637.80	612.70	603.70	20.81	0.62	21.43	18.35	616.85	Yes	
MW-01	05/15/03	635.20	637.80	612.70	603.70	20.76	0.51	21.27	18.28	616.92	Yes	
MW-01	06/10/03	635.20	637.80	612.70	603.70	19.98	0.78	20.76	17.56	617.64	Yes	
MW-01	10/23/03	635.20	637.80	612.70	603.70	19.65	2.02	21.67	17.51	617.69	Yes	
MW-01	12/03/03	635.20	637.80	612.70	603.70	19.69	1.94	21.63	17.53	617.67	Yes	
MW-01	04/19/04	635.81	637.60	612.70	603.70	20.45	0.98	21.43	18.88	616.93	Yes	
MW-01	07/28/04	635.81	637.60	612.70	603.70	18.82	1.03	19.85	17.26	618.55	Yes	
MW-01	11/15/04	635.81	637.60	612.70	603.70	17.60	0.98	18.58	16.03	619.78	Yes	
MW-01	04/18/05	635.81	637.60	612.70	603.70	18.70	0.01	18.71	16.91	618.90	Yes	
MW-01	10/11/05	635.81	637.60	612.70	603.70	NP	0.00	17.30	15.51	620.30	Yes	
MW-01	05/23/06	635.81	637.60	612.70	603.70	16.92	0.30	17.22	15.20	620.61	Yes	
MW-01	10/16/06	635.81	637.60	612.70	603.70	16.92	2.30	19.22	15.65	620.16	Yes	
MW-01	04/23/07	635.81	637.60	612.70	603.70	19.99	0.38	20.37	18.29	617.52	Yes	
MW-01	09/25/07	635.81	637.60	612.70	603.70	19.64	0.31	19.95	17.92	617.89	Yes	
MW-01	05/01/08	635.81	637.60	612.70	603.70	18.33	0.12	18.45	16.57	619.24	Yes	
MW-01	10/20/08	635.81	637.60	612.70	603.70	16.50	0.12	16.62	14.74	621.07	Yes	
MW-01	04/18/09	635.81	637.60	612.70	603.70	17.75	0.36	18.11	16.04	619.77	Yes	
MW-01	10/11/09	635.81	637.60	612.70	603.70	18.10	0.44	18.54	16.41	619.40	Yes	
MW-01	04/28/10	635.81	637.60	612.70	603.70	18.68	0.26	18.94	16.95	618.86	Yes	
MW-01	04/25/11	635.81	637.60	612.70	603.70	17.08	0.41	17.49	15.38	620.43	Yes	
MW-01	10/10/11	635.81	637.60	612.70	603.70	17.85	0.32	18.17	16.13	619.68	Yes	
MW-01	01/04/12	635.81	637.60	612.70	603.70	19.38	0.32	19.70	17.66	618.15	Yes	
MW-01	04/16/12	635.81	637.60	612.70	603.70	NP	0.00	19.84	18.05	617.76	Yes	
MW-01	06/26/12	635.81	637.60	612.70	603.70	NP	0.00	15.13	13.34	622.47	Yes	
MW-01	12/17/12	635.81	637.60	612.70	603.70	19.71	0.39	20.10	18.01	617.80	Yes	
MW-01	03/25/13	635.81	637.60	612.70	603.70	NM	NM	NM	NM	NM	NM	Too much snow on well
MW-01	05/05/13	635.81	637.60	612.70	603.70	NP	0.00	19.29	17.50	618.31	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	10/03/13	635.81	637.60	612.70	603.70	NP	0.00	18.51	16.72	619.09	Yes	
MW-02	03/23/88	635.20	637.39	619.80	610.70	20.37	2.76	23.13	18.80	616.40	No	
MW-02	09/08/88	635.20	637.39	619.80	610.70	20.57	2.53	23.10	18.95	616.25	No	
MW-02	09/20/88	635.20	637.39	619.80	610.70	20.70	2.55	23.25	19.09	616.11	No	
MW-02	04/27/89	635.20	637.39	619.80	610.70	20.76	2.33	23.09	19.10	616.10	No	
MW-02	05/18/89	635.20	637.39	619.80	610.70	20.28	2.20	22.48	18.59	616.61	No	
MW-02	06/30/89	635.20	637.39	619.80	610.70	20.16	2.52	22.68	18.54	616.66	No	
MW-02	07/12/89	635.20	637.39	619.80	610.70	21.05	2.00	23.05	19.31	615.89	No	
MW-02	07/26/89	635.20	637.39	619.80	610.70	20.01	2.72	22.73	18.43	616.77	No	
MW-02	07/27/89	635.20	637.39	619.80	610.70	20.06	2.72	22.78	18.48	616.72	No	
MW-02	09/03/89	635.20	637.39	619.80	610.70	20.37	2.20	22.57	18.68	616.52	No	
MW-02	11/16/89	635.20	637.39	619.80	610.70	20.13	2.57	22.70	18.52	616.68	No	
MW-02	11/29/89	635.20	637.39	619.80	610.70	20.23	2.02	22.25	18.50	616.70	No	
MW-02	12/01/89	635.20	637.39	619.80	610.70	20.45	2.40	22.85	18.80	616.40	No	
MW-02	12/02/89	635.20	637.39	619.80	610.70	20.50	2.56	23.06	18.89	616.31	No	
MW-02	05/04/90	635.20	637.39	619.80	610.70	20.95	2.03	22.98	19.22	615.98	No	
MW-02	06/01/90	635.20	637.39	619.80	610.70	20.45	2.85	23.30	18.90	616.30	No	
MW-02	06/19/90	635.20	637.39	619.80	610.70	20.47	2.45	22.92	18.83	616.37	No	
MW-02	06/27/90	635.20	637.39	619.80	610.70	20.64	2.73	23.37	19.07	616.13	No	
MW-02	07/05/90	635.20	637.39	619.80	610.70	21.09	2.38	23.47	19.44	615.76	No	
MW-02	07/13/90	635.20	637.39	619.80	610.70	20.85	2.45	23.30	19.21	615.99	No	
MW-02	07/17/90	635.20	637.39	619.80	610.70	20.58	2.64	23.22	18.99	616.21	No	
MW-02	07/25/90	635.20	637.39	619.80	610.70	20.84	2.58	23.42	19.23	615.97	No	
MW-02	08/09/90	635.20	637.39	619.80	610.70	20.54	2.82	23.36	18.99	616.21	No	
MW-02	08/27/90	635.20	637.39	619.80	610.70	20.81	2.50	23.31	19.18	616.02	No	
MW-02	09/06/90	635.20	637.39	619.80	610.70	20.19	3.36	23.55	18.76	616.44	No	
MW-02	01/04/91	635.20	637.39	619.80	610.70	19.66	3.62	23.28	18.29	616.91	No	
MW-02	01/30/91	635.20	637.39	619.80	610.70	19.88	3.44	23.32	18.47	616.73	No	
MW-02	04/24/91	635.20	637.39	619.80	610.70	20.30	2.99	23.29	18.79	616.41	No	
MW-02	06/06/91	635.20	637.39	619.80	610.70	18.92	4.20	23.12	17.68	617.52	No	
MW-02	07/09/91	635.20	637.39	619.80	610.70	17.63	5.41	23.04	16.66	618.54	No	
MW-02	08/06/91	635.20	637.39	619.80	610.70	16.70	6.32	23.02	15.94	619.26	No	
MW-02	09/04/91	635.20	637.39	619.80	610.70	16.63	6.35	22.98	15.87	619.33	No	
MW-02	10/08/91	635.20	637.39	619.80	610.70	15.51	7.45	22.96	15.00	620.20	Yes	
MW-02	11/08/91	635.20	637.39	619.80	610.70	16.41	6.60	23.01	15.71	619.49	No	
MW-02	12/03/91	635.20	637.39	619.80	610.70	14.10	8.87	22.97	13.91	621.29	Yes	
MW-02	01/07/92	635.20	637.39	619.80	610.70	16.04	6.99	23.03	15.43	619.77	No	
MW-02	02/04/92	635.20	637.39	619.80	610.70	17.10	5.95	23.05	16.25	618.95	No	
MW-02	03/03/92	635.20	637.39	619.80	610.70	17.70	5.38	23.08	16.73	618.47	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-02	09/24/92	635.20	637.39	619.80	610.70	16.03	7.96	23.99	15.64	619.56	No	
MW-02	10/14/92	635.20	637.39	619.80	610.70	16.08	6.96	23.04	15.46	619.74	No	
MW-02	06/25/93	635.20	637.39	619.80	610.70	12.97	9.92	22.89	13.02	622.18	Yes	
MW-02	10/28/93	635.20	637.39	619.80	610.70	17.38	6.20	23.58	16.59	618.61	No	
MW-02	01/29/94	635.20	637.39	619.80	610.70	17.90	5.18	23.08	16.88	618.32	No	
MW-02	04/27/94	635.20	637.39	619.80	610.70	17.74	5.31	23.05	16.75	618.45	No	
MW-02	07/21/94	635.20	637.39	619.80	610.70	16.36	7.22	23.58	15.80	619.40	No	
MW-02	10/25/94	635.20	637.39	619.80	610.70	16.50	6.53	23.03	15.78	619.42	No	
MW-02	11/02/94	635.20	637.39	619.80	610.70	18.70	1.80	20.50	16.92	618.28	No	
MW-02	02/01/95	635.20	637.39	619.80	610.70	19.02	4.67	23.69	17.88	617.32	No	
MW-02	04/04/95	635.20	637.39	619.80	610.70	19.39	3.56	22.95	18.00	617.20	No	
MW-02	07/12/95	635.20	637.39	619.80	610.70	17.75	5.15	22.90	16.72	618.48	No	
MW-02	11/13/95	635.20	637.39	619.80	610.70	16.95	5.90	22.85	16.09	619.11	No	
MW-02	03/13/96	635.20	637.39	619.80	610.70	18.75	4.20	22.95	17.51	617.69	No	
MW-02	10/08/96	635.20	637.39	619.80	610.70	14.85	7.96	22.81	14.46	620.74	Yes	
MW-02	04/29/97	635.20	637.39	619.80	610.70	13.55	9.05	22.60	13.40	621.80	Yes	
MW-02	06/10/97	635.20	637.39	619.80	610.70	15.45	7.25	22.70	14.90	620.30	Yes	FP bailed 5/22/97
MW-02	03/02/99	635.20	637.39	619.80	610.70	20.15	3.39	23.54	18.73	616.47	No	
MW-02	11/09/99	635.20	637.39	619.80	610.70	NP	0.00	16.73	14.54	620.66	Yes	ferret pump installed
MW-02	12/21/99	635.20	637.39	619.80	610.70	19.00	0.15	19.15	16.84	618.36	No	pump line frozen
MW-02	01/27/00	635.20	637.39	619.80	610.70	19.97	0.63	20.60	17.92	617.28	No	ferret pump re-installed
MW-02	02/24/00	635.20	637.39	619.80	610.70	19.65	0.02	19.67	17.46	617.74	No	
MW-02	03/31/00	635.20	637.39	619.80	610.70	NP	0.00	19.61	17.42	617.78	No	Moved ferret pump to RW-6
MW-02	04/20/00	635.20	637.39	619.80	610.70	19.69	0.58	20.27	17.63	617.57	No	
MW-02	04/26/00	635.20	637.39	619.80	610.70	19.90	0.54	20.44	17.83	617.37	No	bailed 0.25 gal. FP
MW-02	05/31/00	635.20	637.39	619.80	610.70	19.18	0.80	19.98	17.17	618.03	No	bailed 0.25 gal. FP
MW-02	06/29/00	635.20	637.39	619.80	610.70	18.88	0.55	19.43	16.81	618.39	No	bailed 0.25 gal. FP
MW-02	07/26/00	635.20	637.39	619.80	610.70	19.01	0.83	19.84	17.01	618.19	No	bailed <0.1 gal. FP
MW-02	08/18/00	635.20	637.39	619.80	610.70	19.48	0.87	20.35	17.49	617.71	No	bailed 0.25 gal. FP
MW-02	09/27/00	635.20	637.39	619.80	610.70	19.89	0.84	20.73	17.89	617.31	No	bailed <0.1 gal. FP
MW-02	10/11/00	635.20	637.39	619.80	610.70	19.79	0.85	20.64	17.79	617.41	No	bailed 0.25 gal. FP
MW-02	11/17/00	635.20	637.39	619.80	610.70	19.67	1.12	20.79	17.73	617.47	No	bailed 1 gal. FP
MW-02	12/12/00	635.20	637.39	619.80	610.70	19.54	0.26	19.80	17.41	617.79	No	bailed 0.2 gal. FP
MW-02	01/18/01	635.20	637.39	619.80	610.70	19.96	0.72	20.68	17.93	617.27	No	bailed 0.75 gal. FP
MW-02	04/24/01	635.20	637.39	619.80	610.70	20.02	0.91	20.93	18.04	617.16	No	product abated using vactruck
MW-02	05/23/01	635.20	637.39	619.80	610.70	18.73	0.47	19.20	16.65	618.55	No	no product bailed
MW-02	06/19/01	635.20	638.24	619.80	610.70	19.53	0.87	20.40	16.69	618.51	No	TPC = TOC + 0.85 feet
MW-02	07/26/01	635.20	638.24	619.80	610.70	19.35	1.16	20.51	16.57	618.63	No	
MW-02	08/31/01	635.20	638.24	619.80	610.70	20.50	1.09	21.59	17.71	617.49	No	
MW-02	09/26/01	635.20	638.24	619.80	610.70	20.53	0.98	21.51	17.71	617.49	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-02	10/24/01	635.20	638.24	619.80	610.70	19.60	1.07	20.67	16.80	618.40	No	
MW-02	12/20/01	635.20	638.24	619.80	610.70	21.11	1.02	22.13	18.30	616.90	No	
MW-02	02/26/02	635.20	638.24	619.80	610.70	21.52	1.23	22.75	18.76	616.44	No	
MW-02	03/20/02	635.20	638.24	619.80	610.70	21.66	1.39	23.05	18.93	616.27	No	
MW-02	04/24/02	635.20	638.24	619.80	610.70	20.13	1.05	21.18	17.33	617.87	No	
MW-02	05/15/02	635.20	638.24	619.80	610.70	19.68	1.19	20.87	16.91	618.29	No	
MW-02	06/27/02	635.20	638.24	619.80	610.70	19.95	1.21	21.16	17.18	618.02	No	
MW-02	07/25/02	635.20	638.24	619.80	610.70	19.65	1.39	21.04	16.92	618.28	No	
MW-02	08/20/02	635.20	638.24	619.80	610.70	19.86	1.30	21.16	17.11	618.09	No	
MW-02	09/30/02	635.20	638.24	619.80	610.70	19.05	1.61	20.66	16.37	618.83	No	
MW-02	11/05/02	635.20	638.24	619.80	610.70	19.89	1.61	21.50	17.21	617.99	No	
MW-02	12/23/02	635.20	638.24	619.80	610.70	20.79	1.34	22.13	18.05	617.15	No	
MW-02	01/28/03	635.20	638.24	619.80	610.70	21.22	1.59	22.81	18.54	616.66	No	
MW-02	02/19/03	635.20	638.24	619.80	610.70	20.37	1.66	22.03	17.70	617.50	No	
MW-02	04/17/03	635.20	638.24	619.80	610.70	21.84	1.83	23.67	19.21	615.99	No	
MW-02	05/15/03	635.20	638.24	619.80	610.70	21.02	1.88	22.90	18.40	616.80	No	
MW-02	06/10/03	635.20	638.24	619.80	610.70	20.65	1.58	22.23	17.97	617.23	No	
MW-02	10/23/03	635.20	638.24	619.80	610.70	21.84	1.44	23.28	19.13	616.07	No	
MW-02	12/03/03	635.20	638.24	619.80	610.70	21.02	1.53	22.55	18.33	616.87	No	
MW-02	04/19/04	636.16	637.54	619.80	610.70	21.50	2.01	23.51	20.57	615.59	No	
MW-02	07/28/04	636.16	637.54	619.80	610.70	20.35	2.50	22.85	19.53	616.63	No	
MW-02	11/15/04	636.16	637.54	619.80	610.70	19.22	3.63	22.85	18.66	617.50	No	
MW-02	04/18/05	636.16	637.54	619.80	610.70	20.60	3.71	24.31	20.06	616.10	No	
MW-02	09/09/05	636.16	637.54	619.80	610.70	19.23	3.87	23.10	18.72	617.44	No	
MW-02	10/11/05	636.16	637.54	619.80	610.70	18.97	4.11	23.08	18.52	617.64	No	
MW-02	05/23/06	636.16	637.54	619.80	610.70	18.02	4.74	22.76	17.71	618.45	No	
MW-02	10/16/06	636.16	637.54	619.80	610.70	19.22	4.14	23.36	18.78	617.38	No	
MW-02	04/23/07	636.16	637.54	619.80	610.70	NM	NM	NM	NA	NA	NA	Well broken - could not gauge
MW-02	09/25/07						Abandoned					
MW-03	03/23/88	633.90	636.17	618.60	609.60	NP	0.00	18.15	15.88	618.02	No	
MW-03	09/08/88	633.90	636.17	618.60	609.60	NP	0.00	17.89	15.62	618.28	No	
MW-03	09/20/88	633.90	636.17	618.60	609.60	NP	0.00	17.38	15.11	618.79	Yes	
MW-03	04/27/89	633.90	636.17	618.60	609.60	NP	0.00	16.37	14.10	619.80	Yes	
MW-03	05/18/89	633.90	636.17	618.60	609.60	NP	0.00	15.80	13.53	620.37	Yes	
MW-03	06/30/89	633.90	636.17	618.60	609.60	NP	0.00	16.33	14.06	619.84	Yes	
MW-03	07/12/89	633.90	636.17	618.60	609.60	NP	0.00	17.07	14.80	619.10	Yes	
MW-03	07/26/89	633.90	636.17	618.60	609.60	NP	0.00	17.38	15.11	618.79	Yes	
MW-03	07/27/89	633.90	636.17	618.60	609.60	NP	0.00	17.60	15.33	618.57	No	
MW-03	09/03/89	633.90	636.17	618.60	609.60	NP	0.00	17.76	15.49	618.41	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-03	11/16/89	633.90	636.17	618.60	609.60	NP	0.00	17.72	15.45	618.45	No	
MW-03	11/28/89	633.90	636.17	618.60	609.60	NP	0.00	18.15	15.88	618.02	No	
MW-03	06/01/90	633.90	636.17	618.60	609.60	NP	0.00	13.42	11.15	622.75	Yes	
MW-03	06/19/90	633.90	636.17	618.60	609.60	NP	0.00	16.35	14.08	619.82	Yes	
MW-03	06/27/90	633.90	636.17	618.60	609.60	NP	0.00	17.23	14.96	618.94	Yes	
MW-03	07/05/90	633.90	636.17	618.60	609.60	NP	0.00	17.81	15.54	618.36	No	
MW-03	07/13/90	633.90	636.17	618.60	609.60	NP	0.00	18.11	15.84	618.06	No	
MW-03	07/17/90	633.90	636.17	618.60	609.60	NP	0.00	17.72	15.45	618.45	No	
MW-03	07/25/90	633.90	636.17	618.60	609.60	NP	0.00	18.26	15.99	617.91	No	
MW-03	08/09/90	633.90	636.17	618.60	609.60	NP	0.00	18.14	15.87	618.03	No	
MW-03	08/14/90	633.90	636.17	618.60	609.60	NP	0.00	18.23	15.96	617.94	No	
MW-03	08/27/90	633.90	636.17	618.60	609.60	NP	0.00	17.51	15.24	618.66	Yes	
MW-03	09/06/90	633.90	636.17	618.60	609.60	NP	0.00	17.02	14.75	619.15	Yes	
MW-03	01/04/91	633.90	636.17	618.60	609.60	NP	0.00	17.51	15.24	618.66	Yes	
MW-03	01/30/91	633.90	636.17	618.60	609.60	NP	0.00	17.96	15.69	618.21	No	
MW-03	04/24/91	633.90	636.17	618.60	609.60	NP	0.00	15.96	13.69	620.21	Yes	
MW-03	07/09/91	633.90	636.17	618.60	609.60	NP	0.00	13.77	11.50	622.40	Yes	
MW-03	10/08/91	633.90	636.17	618.60	609.60	NP	0.00	13.44	11.17	622.73	Yes	
MW-03	01/07/92	633.90	636.17	618.60	609.60	NP	0.00	13.42	11.15	622.75	Yes	
MW-03	10/14/92	633.90	636.17	618.60	609.60	NP	0.00	7.53	5.26	628.64	Yes	
MW-03	01/29/94	633.90	636.17	618.60	609.60	NP	0.00	15.95	13.68	620.22	Yes	
MW-03	04/27/94	633.90	636.17	618.60	609.60	NP	0.00	12.84	10.57	623.33	Yes	
MW-03	07/21/94	633.90	636.17	618.60	609.60	NP	0.00	13.99	11.72	622.18	Yes	
MW-03	10/25/94	633.90	636.17	618.60	609.60	NP	0.00	6.76	4.49	629.41	Yes	
MW-03	10/27/94	633.90	636.17	618.60	609.60	NP	0.00	6.68	4.41	629.49	Yes	
MW-03	11/02/94	633.90	636.17	618.60	609.60	17.50	0.70	18.20	15.39	618.51	No	
MW-03	02/01/95	633.90	636.17	618.60	609.60	NP	0.00	15.45	13.18	620.72	Yes	
MW-03	04/04/95	633.90	636.17	618.60	609.60	NP	0.00	16.94	14.67	619.23	Yes	
MW-03	07/12/95	633.90	636.17	618.60	609.60	NP	0.00	15.41	13.14	620.76	Yes	
MW-03	11/13/95	633.90	636.17	618.60	609.60	13.45	0.01	13.46	11.18	622.72	Yes	
MW-03	03/13/96	633.90	636.17	618.60	609.60	16.64	0.01	16.65	14.37	619.53	Yes	
MW-03	10/08/96	633.90	636.17	618.60	609.60	NP	0.00	13.32	11.05	622.85	Yes	
MW-03	04/29/97	633.90	636.17	618.60	609.60	NP	0.00	10.22	7.95	625.95	Yes	
MW-03	11/03/98	633.90	636.17	618.60	609.60	NP	0.00	16.55	14.28	619.62	Yes	
MW-03	03/02/99	633.90	636.17	618.60	609.60	NP	0.00	16.94	14.67	619.23	Yes	
MW-03	04/26/00	633.90	636.17	618.60	609.60	NP	0.00	6.72	4.45	629.45	Yes	
MW-03	08/18/00	633.90	636.17	618.60	609.60	NP	0.00	16.31	14.04	619.86	Yes	
MW-03	03/20/02	633.90	636.17	618.60	609.60	NP	0.00	18.14	15.87	618.03	No	
MW-03	05/15/02	633.90	636.17	618.60	609.60	NP	0.00	6.84	4.57	629.33	Yes	very slty
MW-03	08/20/02	633.90	636.17	618.60	609.60	NP	0.00	6.59	4.32	629.58	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-03	11/05/02	633.90	636.17	618.60	609.60	NP	0.00	6.52	4.25	629.65	Yes	
MW-03	12/23/02	633.90	636.17	618.60	609.60	NP	0.00	17.07	14.80	619.10	Yes	
MW-03	01/28/03	633.90	636.17	618.60	609.60	NP	0.00	17.75	15.48	618.42	No	
MW-03	02/19/03	633.90	636.17	618.60	609.60	NP	0.00	18.02	15.75	618.15	No	
MW-03	04/17/03	633.90	636.17	618.60	609.60	NP	0.00	17.60	15.33	618.57	No	
MW-03	06/10/03	633.90	636.17	618.60	609.60	NP	0.00	17.60	15.33	618.57	No	
MW-03	10/20/03	633.90	636.17	618.60	609.60	NP	0.00	17.98	15.71	618.19	No	
MW-03	12/03/03	633.90	636.17	618.60	609.60	NP	0.00	18.30	16.03	617.87	No	
MW-03	04/19/04	634.51	635.97	618.60	609.60	NP	0.00	17.79	16.33	618.18	No	
MW-03	07/28/04	634.51	635.97	618.60	609.60	NP	0.00	16.80	15.34	619.17	Yes	
MW-03	11/16/04	634.51	635.97	618.60	609.60	NP	0.00	15.69	14.23	620.28	Yes	
MW-03	04/18/05	634.51	635.97	618.60	609.60	NP	0.00	15.78	14.32	620.19	Yes	
MW-03	10/11/05	634.51	635.97	618.60	609.60	NP	0.00	15.30	13.84	620.67	Yes	
MW-03	05/23/06	634.51	635.97	618.60	609.60	NP	0.00	12.72	11.26	623.25	Yes	
MW-03	10/16/06	634.51	635.97	618.60	609.60	NP	0.00	16.78	15.32	619.19	Yes	
MW-03	04/23/07	634.51	635.97	618.60	609.60	NP	0.00	10.32	8.86	625.65	Yes	
MW-03	09/25/07	634.51	636.63	618.60	609.60	NP	0.00	13.97	11.85	622.66	Yes	
MW-03	05/01/08	634.51	636.63	618.60	609.60	NP	0.00	12.15	10.03	624.48	Yes	
MW-03	10/20/08	634.51	636.63	618.60	609.60	NP	0.00	6.93	4.81	629.70	Yes	
MW-03	04/18/09	634.51	636.63	618.60	609.60	NP	0.00	8.48	6.36	628.15	Yes	
MW-03	10/11/09	634.51	636.63	618.60	609.60	NP	0.00	16.87	14.75	619.76	Yes	
MW-03	04/28/10	634.51	636.63	618.60	609.60	NP	0.00	15.46	13.34	621.17	Yes	
MW-03	10/25/10	634.51	636.63	618.60	609.60	NP	0.00	7.57	5.45	629.06	Yes	
MW-03	04/25/11	634.51	636.63	618.60	609.60	NP	0.00	7.42	5.30	629.21	Yes	
MW-03	10/10/11	634.51	636.63	618.60	609.60	NP	0.00	16.11	13.99	620.52	Yes	
MW-03	01/04/12	634.51	636.63	618.60	609.60	NP	0.00	17.37	15.25	619.26	Yes	
MW-03	04/16/12	634.51	636.63	618.60	609.60	NP	0.00	15.80	13.68	620.83	Yes	
MW-03	06/26/12	634.51	636.63	618.60	609.60	NP	0.00	7.02	4.90	629.61	Yes	
MW-03	09/30/12	634.51	636.63	618.60	609.60	NP	0.00	17.49	15.37	619.14	Yes	
MW-03	12/17/12	634.51	636.63	618.60	609.60	NP	0.00	17.83	15.71	618.80	Yes	
MW-03	03/25/13	634.51	636.63	618.60	609.60	NP	0.00	19.01	16.89	617.62	No	
MW-03	05/05/13	634.51	636.63	618.60	609.60	NP	0.00	9.33	7.21	627.30	Yes	
MW-03	10/01/13	634.51	636.63	618.60	609.60	NP	0.00	17.44	15.32	619.19	Yes	
MW-03	05/21/14	634.51	636.63	618.60	609.60	NP	0.00	5.87	3.75	630.76	Yes	
MW-03	10/30/14	634.51	636.63	618.60	609.60	NP	0.00	8.74	6.62	627.89	Yes	
MW-03	05/06/15	634.51	636.63	618.60	609.60	NP	0.00	15.09	12.97	621.54	Yes	
MW-03	10/06/15	634.51	636.63	618.60	609.60	NP	0.00	8.09	5.97	628.54	Yes	
MW-03	05/23/16	634.51	636.63	618.60	609.60	NP	0.00	6.92	4.80	629.71	Yes	
MW-03	10/03/16	634.51	636.63	618.60	609.60	NP	0.00	6.70	4.58	629.93	Yes	
MW-03	06/29/17	634.51	636.63	618.60	609.60	NP	0.00	7.73	5.61	628.90	Yes	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04S	03/23/88	634.30	636.93	620.00	610.00	NP	0.00	19.02	16.39	617.91	No	
MW-04S	09/08/88	634.30	636.93	620.00	610.00	NP	0.00	19.00	16.37	617.93	No	
MW-04S	09/20/88	634.30	636.93	620.00	610.00	NP	0.00	19.21	16.58	617.72	No	
MW-04S	04/27/89	634.30	636.93	620.00	610.00	NP	0.00	17.80	15.17	619.13	No	
MW-04S	05/18/89	634.30	636.93	620.00	610.00	NP	0.00	17.05	14.42	619.88	No	
MW-04S	06/30/89	634.30	636.93	620.00	610.00	NP	0.00	17.47	14.84	619.46	No	
MW-04S	07/12/89	634.30	636.93	620.00	610.00	NP	0.00	18.14	15.51	618.79	No	
MW-04S	07/26/89	634.30	636.93	620.00	610.00	NP	0.00	18.44	15.81	618.49	No	
MW-04S	07/27/89	634.30	636.93	620.00	610.00	NP	0.00	18.57	15.94	618.36	No	
MW-04S	09/03/89	634.30	636.93	620.00	610.00	NP	0.00	18.89	16.26	618.04	No	
MW-04S	11/16/89	634.30	636.93	620.00	610.00	NP	0.00	18.83	16.20	618.10	No	
MW-04S	11/28/89	634.30	636.93	620.00	610.00	NP	0.00	19.15	16.52	617.78	No	
MW-04S	06/01/90	634.30	636.93	620.00	610.00	NP	0.00	18.14	15.51	618.79	No	
MW-04S	06/19/90	634.30	636.93	620.00	610.00	NP	0.00	18.16	15.53	618.77	No	
MW-04S	06/27/90	634.30	636.93	620.00	610.00	NP	0.00	18.52	15.89	618.41	No	
MW-04S	07/05/90	634.30	636.93	620.00	610.00	NP	0.00	19.00	16.37	617.93	No	
MW-04S	07/13/90	634.30	636.93	620.00	610.00	NP	0.00	19.21	16.58	617.72	No	
MW-04S	07/17/90	634.30	636.93	620.00	610.00	NP	0.00	18.82	16.19	618.11	No	
MW-04S	07/25/90	634.30	636.93	620.00	610.00	NP	0.00	19.27	16.64	617.66	No	
MW-04S	08/09/90	634.30	636.93	620.00	610.00	NP	0.00	19.15	16.52	617.78	No	
MW-04S	08/14/90	634.30	636.93	620.00	610.00	NP	0.00	19.21	16.58	617.72	No	
MW-04S	08/27/90	634.30	636.93	620.00	610.00	NP	0.00	18.94	16.31	617.99	No	
MW-04S	09/06/90	634.30	636.93	620.00	610.00	NP	0.00	18.32	15.69	618.61	No	
MW-04S	01/04/91	634.30	636.93	620.00	610.00	NP	0.00	18.46	15.83	618.47	No	
MW-04S	01/30/91	634.30	636.93	620.00	610.00	NP	0.00	18.92	16.29	618.01	No	
MW-04S	04/24/91	634.30	636.93	620.00	610.00	NP	0.00	18.11	15.48	618.82	No	
MW-04S	07/09/91	634.30	636.93	620.00	610.00	NP	0.00	15.60	12.97	621.33	Yes	
MW-04S	08/06/91	634.30	636.93	620.00	610.00	NP	0.00	15.30	12.67	621.63	Yes	
MW-04S	09/04/91	634.30	636.93	620.00	610.00	NP	0.00	15.75	13.12	621.18	Yes	
MW-04S	10/08/91	634.30	636.93	620.00	610.00	NP	0.00	14.77	12.14	622.16	Yes	
MW-04S	11/08/91	634.30	636.93	620.00	610.00	NP	0.00	15.25	12.62	621.68	Yes	
MW-04S	12/03/91	634.30	636.93	620.00	610.00	NP	0.00	13.34	10.71	623.59	Yes	
MW-04S	01/07/92	634.30	636.93	620.00	610.00	NP	0.00	14.95	12.32	621.98	Yes	
MW-04S	02/04/92	634.30	636.93	620.00	610.00	NP	0.00	16.07	13.44	620.86	Yes	
MW-04S	03/03/92	634.30	636.93	620.00	610.00	NP	0.00	16.77	14.14	620.16	Yes	
MW-04S	09/24/92	634.30	636.93	620.00	610.00	NP	0.00	14.87	12.24	622.06	Yes	
MW-04S	10/14/92	634.30	636.93	620.00	610.00	NP	0.00	15.51	12.88	621.42	Yes	
MW-04S	06/25/93	634.30	636.93	620.00	610.00	NP	0.00	12.88	10.25	624.05	Yes	
MW-04S	10/28/93	634.30	636.93	620.00	610.00	NP	0.00	15.84	13.21	621.09	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04S	01/29/94	634.30	636.93	620.00	610.00	NP	0.00	17.04	14.41	619.89	No	
MW-04S	04/27/94	634.30	636.93	620.00	610.00	NP	0.00	15.78	13.15	621.15	Yes	
MW-04S	06/14/94	634.30	636.93	620.00	610.00	NP	0.00	14.80	12.17	622.13	Yes	
MW-04S	07/21/94	634.30	636.93	620.00	610.00	NP	0.00	15.25	12.62	621.68	Yes	
MW-04S	08/30/94	634.30	636.93	620.00	610.00	NP	0.00	16.94	14.31	619.99	No	
MW-04S	10/25/94	634.30	636.93	620.00	610.00	NP	0.00	15.52	12.89	621.41	Yes	
MW-04S	10/27/94	634.30	636.93	620.00	610.00	NP	0.00	15.09	12.46	621.84	Yes	
MW-04S	11/02/94	634.30	636.93	620.00	610.00	NP	0.00	18.94	16.31	617.99	No	
MW-04S	04/04/95	634.30	636.93	620.00	610.00	NP	0.00	18.20	15.57	618.73	No	
MW-04S	07/12/95	634.30	636.93	620.00	610.00	NP	0.00	16.74	14.11	620.19	Yes	
MW-04S	11/13/95	634.30	636.93	620.00	610.00	NP	0.00	14.95	12.32	621.98	Yes	
MW-04S	03/13/96	634.30	636.93	620.00	610.00	NP	0.00	18.59	15.96	618.34	No	
MW-04S	04/22/96	634.30	636.93	620.00	610.00	NP	0.00	15.13	12.50	621.80	Yes	
MW-04S	10/08/96	634.30	636.93	620.00	610.00	NP	0.00	14.62	11.99	622.31	Yes	
MW-04S	04/29/97	634.30	636.93	620.00	610.00	NP	0.00	12.75	10.12	624.18	Yes	
MW-04S	11/03/98	634.30	636.93	620.00	610.00	NP	0.00	17.85	15.22	619.08	No	
MW-04S	03/02/99	634.30	636.93	620.00	610.00	NP	0.00	18.14	15.51	618.79	No	
MW-04S	04/26/00	634.30	636.93	620.00	610.00	NP	0.00	16.71	14.08	620.22	Yes	
MW-04S	10/10/00	634.30	636.93	620.00	610.00	NP	0.00	17.90	15.27	619.03	No	
MW-04S	04/24/01	634.30	636.93	620.00	610.00	NP	0.00	17.17	14.54	619.76	No	
MW-04S	10/23/01	634.30	636.93	620.00	610.00	NP	0.00	17.92	15.29	619.01	No	
MW-04S	04/23/02	634.30	636.93	620.00	610.00	NP	0.00	17.94	15.31	618.99	No	
MW-04S	11/05/02	634.30	636.93	620.00	610.00	NP	0.00	16.23	13.60	620.70	Yes	
MW-04S	04/17/03	634.30	636.93	620.00	610.00	NP	0.00	19.28	16.65	617.65	No	
MW-04S	10/20/03	634.30	636.93	620.00	610.00	NP	0.00	19.03	16.40	617.90	No	
MW-04S	04/19/04	634.97	636.67	620.00	610.00	NP	0.00	19.49	17.79	617.18	No	
MW-04S	11/16/04	634.97	636.67	620.00	610.00	NP	0.00	17.08	15.38	619.59	No	
MW-04S	04/18/05	634.97	636.67	620.00	610.00	NP	0.00	17.66	15.96	619.01	No	
MW-04S	10/11/05	634.97	636.67	620.00	610.00	NP	0.00	17.12	15.42	619.55	No	
MW-04S	05/23/06	634.97	636.67	620.00	610.00	NP	0.00	16.09	14.39	620.58	Yes	
MW-04S	10/16/06	634.97	636.67	620.00	610.00	NP	0.00	17.66	15.96	619.01	No	
MW-04S	04/23/07	634.97	636.67	620.00	610.00	NP	0.00	18.77	17.07	617.90	No	
MW-04S	09/25/07	634.97	636.67	620.00	610.00	NP	0.00	19.07	17.37	617.60	No	
MW-04S	05/01/08	634.97	636.67	620.00	610.00	NP	0.00	17.07	15.37	619.60	No	
MW-04S	10/20/08	634.97	636.67	620.00	610.00	NP	0.00	15.67	13.97	621.00	Yes	
MW-04S	04/18/09	634.97	636.67	620.00	610.00	NP	0.00	17.42	15.72	619.25	No	
MW-04S	10/11/09	634.97	636.67	620.00	610.00	NP	0.00	18.36	16.66	618.31	No	
MW-04S	04/28/10	634.97	636.67	620.00	610.00	NP	0.00	18.19	16.49	618.48	No	
MW-04S	10/25/10	634.97	636.67	620.00	610.00	NP	0.00	16.12	14.42	620.55	Yes	
MW-04S	04/25/11	634.97	636.67	620.00	610.00	NP	0.00	17.35	15.65	619.32	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04S	10/10/11	634.97	636.67	620.00	610.00	NP	0.00	17.32	15.62	619.35	No	
MW-04S	01/04/12	634.97	636.67	620.00	610.00	NP	0.00	18.48	16.78	618.19	No	
MW-04S	04/16/12	634.97	636.67	620.00	610.00	NP	0.00	18.78	17.08	617.89	No	
MW-04S	06/26/12	634.97	636.67	620.00	610.00	NP	0.00	15.52	13.82	621.15	Yes	
MW-04S	09/30/12	634.97	636.67	620.00	610.00	NP	0.00	18.55	16.85	618.12	No	
MW-04S	12/17/12	634.97	636.67	620.00	610.00	NP	0.00	19.45	17.75	617.22	No	
MW-04S	03/25/13	634.97	636.67	620.00	610.00	NP	0.00	19.96	18.26	616.71	No	
MW-04S	05/05/13	634.97	636.67	620.00	610.00	NP	0.00	19.19	17.49	617.48	No	
MW-04D	06/14/94	634.30	636.85	583.00	580.00	NP	0.00	16.76	14.21	620.09	Yes	
MW-04D	07/21/94	634.30	636.85	583.00	580.00	NP	0.00	16.89	14.34	619.96	Yes	
MW-04D	08/30/94	634.30	636.85	583.00	580.00	NP	0.00	18.18	15.63	618.67	Yes	
MW-04D	10/25/94	634.30	636.85	583.00	580.00	NP	0.00	17.09	14.54	619.76	Yes	
MW-04D	10/27/94	634.30	636.85	583.00	580.00	NP	0.00	15.65	13.10	621.20	Yes	
MW-04D	02/01/95	634.30	636.85	583.00	580.00	NP	0.00	18.78	16.23	618.07	Yes	
MW-04D	04/04/95	634.30	636.85	583.00	580.00	NP	0.00	19.41	16.86	617.44	Yes	
MW-04D	07/12/95	634.30	636.85	583.00	580.00	NP	0.00	18.33	15.78	618.52	Yes	
MW-04D	11/13/95	634.30	636.85	583.00	580.00	NP	0.00	16.90	14.35	619.95	Yes	
MW-04D	03/13/96	634.30	636.85	583.00	580.00	19.08	0.01	19.09	16.53	617.77	Yes	
MW-04D	04/22/96	634.30	636.85	583.00	580.00	NP	0.00	17.25	14.70	619.60	Yes	
MW-04D	10/08/96	634.30	636.85	583.00	580.00	NP	0.00	16.52	13.97	620.33	Yes	
MW-04D	04/29/97	634.30	636.85	583.00	580.00	NP	0.00	15.15	12.60	621.70	Yes	
MW-04D	11/03/98	634.30	636.85	583.00	580.00	NP	0.00	19.27	16.72	617.58	Yes	
MW-04D	03/02/99	634.30	636.85	583.00	580.00	NP	0.00	19.28	16.73	617.57	Yes	
MW-04D	04/26/00	634.30	636.85	583.00	580.00	NP	0.00	18.31	15.76	618.54	Yes	
MW-04D	10/10/00	634.30	636.85	583.00	580.00	NP	0.00	19.80	17.25	617.05	Yes	
MW-04D	10/23/01	634.30	636.85	583.00	580.00	NP	0.00	19.21	16.66	617.64	Yes	
MW-04D	04/23/02	634.30	636.85	583.00	580.00	NP	0.00	19.45	16.90	617.40	Yes	
MW-04D	11/05/02	634.30	636.85	583.00	580.00	NP	0.00	17.89	15.34	618.96	Yes	
MW-04D	04/17/03	634.30	636.85	583.00	580.00	NP	0.00	20.37	17.82	616.48	Yes	
MW-04D	10/20/03	634.30	636.85	583.00	580.00	NP	0.00	20.16	17.61	616.69	Yes	
MW-04D	04/19/04	634.98	636.58	583.00	580.00	NP	0.00	20.48	18.88	616.10	Yes	
MW-04D	11/16/04	634.98	636.58	583.00	580.00	NP	0.00	18.61	17.01	617.97	Yes	
MW-04D	04/18/05	634.98	636.58	583.00	580.00	NP	0.00	19.14	17.54	617.44	Yes	
MW-04D	10/11/05	634.98	636.58	583.00	580.00	NP	0.00	18.48	16.88	618.10	Yes	
MW-04D	05/23/06	634.98	636.58	583.00	580.00	NP	0.00	17.58	15.98	619.00	Yes	
MW-04D	10/16/06	634.98	636.58	583.00	580.00	NP	0.00	19.02	17.42	617.56	Yes	
MW-04D	04/23/07	634.98	636.58	583.00	580.00	NP	0.00	18.79	17.19	617.79	Yes	
MW-04D	09/25/07	634.98	636.58	583.00	580.00	NP	0.00	19.75	18.15	616.83	Yes	
MW-04D	05/01/08	634.98	636.58	583.00	580.00	NP	0.00	18.02	16.42	618.56	Yes	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04D	10/20/08	634.98	636.58	583.00	580.00	NP	0.00	16.6	15.00	619.98	Yes	
MW-04D	04/18/09	634.98	636.58	583.00	580.00	NP	0.00	18.19	16.59	618.39	Yes	
MW-04D	10/11/09	634.98	636.58	583.00	580.00	NP	0.00	18.79	17.19	617.79	Yes	
MW-04D	04/28/10	634.98	636.58	583.00	580.00	NP	0.00	18.91	17.31	617.67	Yes	
MW-04D	10/25/10	634.98	636.58	583.00	580.00	NP	0.00	16.83	15.23	619.75	Yes	
MW-04D	04/25/11	634.98	636.58	583.00	580.00	NP	0.00	18.05	16.45	618.53	Yes	
MW-04D	10/10/11	634.98	636.58	583.00	580.00	NP	0.00	17.81	16.21	618.77	Yes	
MW-04D	01/04/12	634.98	636.58	583.00	580.00	NP	0.00	18.96	17.36	617.62	Yes	
MW-04D	04/16/12	634.98	636.58	583.00	580.00	NP	0.00	19.24	17.64	617.34	Yes	
MW-04D	06/26/12	634.98	636.58	583.00	580.00	NP	0.00	16.53	14.93	620.05	Yes	
MW-04D	09/30/12	634.98	636.58	583.00	580.00	NP	0.00	18.95	17.35	617.63	Yes	
MW-04D	12/17/12	634.98	636.58	583.00	580.00	NP	0.00	18.97	17.37	617.61	Yes	
MW-04D	03/25/13	634.98	636.58	583.00	580.00	NP	0.00	19.88	18.28	616.70	Yes	
MW-04D	05/05/13	634.98	636.58	583.00	580.00	NP	0.00	19.63	18.03	616.95	Yes	
MW-04D	10/03/13	634.98	636.58	583.00	580.00	NM	NM	NM	NM	NM	NM	
MW-05	03/23/88	634.40	636.94	618.50	609.50	NP	0.00	19.45	16.91	617.49	No	
MW-05	09/08/88	634.40	636.94	618.50	609.50	NP	0.00	19.50	16.96	617.44	No	
MW-05	09/20/88	634.40	636.94	618.50	609.50	NP	0.00	19.50	16.96	617.44	No	
MW-05	04/27/89	634.40	636.94	618.50	609.50	NP	0.00	18.81	16.27	618.13	No	
MW-05	05/18/89	634.40	636.94	618.50	609.50	NP	0.00	18.06	15.52	618.88	Yes	
MW-05	06/30/89	634.40	636.94	618.50	609.50	NP	0.00	18.35	15.81	618.59	Yes	
MW-05	07/12/89	634.40	636.94	618.50	609.50	NP	0.00	18.81	16.27	618.13	No	
MW-05	07/26/89	634.40	636.94	618.50	609.50	NP	0.00	18.96	16.42	617.98	No	
MW-05	07/27/89	634.40	636.94	618.50	609.50	NP	0.00	19.07	16.53	617.87	No	
MW-05	09/03/89	634.40	636.94	618.50	609.50	NP	0.00	19.35	16.81	617.59	No	
MW-05	11/28/89	634.40	636.94	618.50	609.50	NP	0.00	19.82	17.28	617.12	No	
MW-05	06/01/90	634.40	636.94	618.50	609.50	NP	0.00	18.92	16.38	618.02	No	
MW-05	06/19/90	634.40	636.94	618.50	609.50	NP	0.00	18.95	16.41	617.99	No	
MW-05	06/27/90	634.40	636.94	618.50	609.50	NP	0.00	19.25	16.71	617.69	No	
MW-05	07/05/90	634.40	636.94	618.50	609.50	NP	0.00	19.65	17.11	617.29	No	
MW-05	07/13/90	634.40	636.94	618.50	609.50	NP	0.00	19.78	17.24	617.16	No	
MW-05	07/17/90	634.40	636.94	618.50	609.50	NP	0.00	19.33	16.79	617.61	No	
MW-05	07/25/90	634.40	636.94	618.50	609.50	NP	0.00	19.76	17.22	617.18	No	
MW-05	08/09/90	634.40	636.94	618.50	609.50	NP	0.00	19.61	17.07	617.33	No	
MW-05	08/14/90	634.40	636.94	618.50	609.50	NP	0.00	19.63	17.09	617.31	No	
MW-05	08/27/90	634.40	636.94	618.50	609.50	NP	0.00	19.40	16.86	617.54	No	
MW-05	09/06/90	634.40	636.94	618.50	609.50	NP	0.00	21.34	18.80	615.60	No	
MW-05	01/04/91	634.40	636.94	618.50	609.50	NP	0.00	18.60	16.06	618.34	No	
MW-05	01/30/91	634.40	636.94	618.50	609.50	NP	0.00	19.20	16.66	617.74	No	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-05	04/24/91	634.40	636.94	618.50	609.50	NP	0.00	18.91	16.37	618.03	No	
MW-05	07/09/91	634.40	636.94	618.50	609.50	NP	0.00	16.74	14.20	620.20	Yes	
MW-05	10/08/91	634.40	636.94	618.50	609.50	NP	0.00	15.61	13.07	621.33	Yes	
MW-05	01/07/92	634.40	636.94	618.50	609.50	NP	0.00	15.74	13.20	621.20	Yes	
MW-05	10/14/92	634.40	636.94	618.50	609.50	NP	0.00	16.06	13.52	620.88	Yes	
MW-05	01/29/94	634.40	636.94	618.50	609.50	NP	0.00	17.38	14.84	619.56	Yes	
MW-05	04/27/94	634.40	636.94	618.50	609.50	NP	0.00	16.69	14.15	620.25	Yes	
MW-05	07/21/94	634.40	636.94	618.50	609.50	NP	0.00	15.80	13.26	621.14	Yes	
MW-05	10/25/94	634.40	636.94	618.50	609.50	NP	0.00	16.23	13.69	620.71	Yes	
MW-05	10/27/94	634.40	636.94	618.50	609.50	NP	0.00	15.82	13.28	621.12	Yes	
MW-05	11/02/94	634.40	636.94	618.50	609.50	18.96	1.88	20.84	16.84	617.56	No	
MW-05	02/01/95	634.40	636.94	618.50	609.50	NP	0.00	18.01	15.47	618.93	Yes	
MW-05	04/04/95	634.40	636.94	618.50	609.50	NP	0.00	18.78	16.24	618.16	No	
MW-05	07/12/95	634.40	636.94	618.50	609.50	NP	0.00	17.30	14.76	619.64	Yes	
MW-05	11/13/95	634.40	636.94	618.50	609.50	NP	0.00	15.88	13.34	621.06	Yes	
MW-05	03/13/96	634.40	636.94	618.50	609.50	NP	0.00	17.92	15.38	619.02	Yes	
MW-05	10/08/96	634.40	636.94	618.50	609.50	NP	0.00	15.28	12.74	621.66	Yes	
MW-05	04/29/97	634.40	636.94	618.50	609.50	NP	0.00	13.82	11.28	623.12	Yes	
MW-05	11/03/98	634.40	636.94	618.50	609.50	NP	0.00	14.34	11.80	622.60	Yes	
MW-05	03/02/99	634.40	637.94	618.50	609.50	NP	0.00	18.46	14.92	619.48	Yes	
MW-05	04/26/00	634.40	637.94	618.50	609.50	NP	0.00	17.39	13.85	620.55	Yes	
MW-05	08/18/00	634.40	637.94	618.50	609.50	NP	0.00	17.94	14.40	620.00	Yes	
MW-05	10/10/00	634.40	637.94	618.50	609.50	NP	0.00	18.29	14.75	619.65	Yes	
MW-05	04/24/01	634.40	637.94	618.50	609.50	NP	0.00	18.17	14.63	619.77	Yes	
MW-05	10/23/01	634.40	637.94	618.50	609.50	NP	0.00	19.08	15.54	618.86	Yes	
MW-05	04/23/02	634.40	637.94	618.50	609.50	NP	0.00	18.83	15.29	619.11	Yes	
MW-05	11/05/02	634.40	637.94	618.50	609.50	NP	0.00	17.23	13.69	620.71	Yes	
MW-05	08/28/03						Abandoned					
MW-06	03/23/88	635.50	637.97	620.30	611.30	NP	0.00	21.34	18.87	616.63	No	
MW-06	09/08/88	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	09/20/88	635.50	637.97	620.30	611.30	NP	0.00	21.97	19.50	616.00	No	
MW-06	04/27/89	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	05/18/89	635.50	637.97	620.30	611.30	NP	0.00	21.21	18.74	616.76	No	
MW-06	06/30/89	635.50	637.97	620.30	611.30	NP	0.00	20.90	18.43	617.07	No	
MW-06	07/12/89	635.50	637.97	620.30	611.30	NP	0.00	21.00	18.53	616.97	No	
MW-06	07/26/89	635.50	637.97	620.30	611.30	NP	0.00	20.97	18.50	617.00	No	
MW-06	07/27/89	635.50	637.97	620.30	611.30	NP	0.00	21.07	18.60	616.90	No	
MW-06	09/03/89	635.50	637.97	620.30	611.30	NP	0.00	21.34	18.87	616.63	No	
MW-06	11/16/89	635.50	637.97	620.30	611.30	NP	0.00	21.42	18.95	616.55	No	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-06	11/28/89	635.50	637.97	620.30	611.30	NP	0.00	21.54	19.07	616.43	No	
MW-06	06/01/90	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	06/19/90	635.50	637.97	620.30	611.30	NP	0.00	21.51	19.04	616.46	No	
MW-06	06/27/90	635.50	637.97	620.30	611.30	NP	0.00	21.60	19.13	616.37	No	
MW-06	07/05/90	635.50	637.97	620.30	611.30	NP	0.00	21.71	19.24	616.26	No	
MW-06	07/13/90	635.50	637.97	620.30	611.30	NP	0.00	21.68	19.21	616.29	No	
MW-06	07/17/90	635.50	637.97	620.30	611.30	NP	0.00	21.43	18.96	616.54	No	
MW-06	07/25/90	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	08/09/90	635.50	637.97	620.30	611.30	NP	0.00	21.56	19.09	616.41	No	
MW-06	08/14/90	635.50	637.97	620.30	611.30	NP	0.00	21.54	19.07	616.43	No	
MW-06	08/27/90	635.50	637.97	620.30	611.30	NP	0.00	21.42	18.95	616.55	No	
MW-06	09/06/90	635.50	637.97	620.30	611.30	NP	0.00	21.57	19.10	616.40	No	
MW-06	01/04/91	635.50	637.97	620.30	611.30	NP	0.00	20.81	18.34	617.16	No	
MW-06	01/30/91	635.50	637.97	620.30	611.30	NP	0.00	21.00	18.53	616.97	No	
MW-06	04/24/91	635.50	637.97	620.30	611.30	NP	0.00	21.65	19.18	616.32	No	
MW-06	07/09/91	635.50	637.97	620.30	611.30	NP	0.00	20.20	17.73	617.77	No	
MW-06	10/08/91	635.50	637.97	620.30	611.30	NP	0.00	18.69	16.22	619.28	No	
MW-06	01/07/92	635.50	637.97	620.30	611.30	NP	0.00	18.68	16.21	619.29	No	
MW-06	10/14/92	635.50	637.97	620.30	611.30	NP	0.00	18.71	16.24	619.26	No	
MW-06	06/25/93	635.50	637.97	620.30	611.30	NP	0.00	17.65	15.18	620.32	Yes	
MW-06	10/28/93	635.50	637.97	620.30	611.30	NP	0.00	18.57	16.10	619.40	No	
MW-06	01/29/94	635.50	637.97	620.30	611.30	NP	0.00	19.52	17.05	618.45	No	
MW-06	04/27/94	635.50	637.97	620.30	611.30	NP	0.00	19.92	17.45	618.05	No	
MW-06	07/21/94	635.50	637.97	620.30	611.30	NP	0.00	18.56	16.09	619.41	No	
MW-06	10/25/94	635.50	637.97	620.30	611.30	NP	0.00	19.13	16.66	618.84	No	
MW-06	10/27/94	635.50	637.97	620.30	611.30	NP	0.00	18.44	15.97	619.53	No	
MW-06	11/02/94	635.50	637.97	620.30	611.30	18.42	1.43	19.85	16.27	619.23	No	
MW-06	02/01/95	635.50	637.97	620.30	611.30	NP	0.00	19.90	17.43	618.07	No	
MW-06	04/04/95	635.50	637.97	620.30	611.30	NP	0.00	20.61	18.14	617.36	No	
MW-06	07/12/95	635.50	637.97	620.30	611.30	NP	0.00	19.83	17.36	618.14	No	
MW-06	11/13/95	635.50	637.97	620.30	611.30	NP	0.00	19.25	16.78	618.72	No	
MW-06	03/13/96	635.50	637.97	620.30	611.30	NP	0.00	20.10	17.63	617.87	No	
MW-06	04/22/96	635.50	637.97	620.30	611.30	NP	0.00	19.72	17.25	618.25	No	
MW-06	10/08/96	635.50	637.97	620.30	611.30	NP	0.00	18.11	15.64	619.86	No	
MW-06	04/29/97	635.50	637.97	620.30	611.30	NP	0.00	17.52	15.05	620.45	Yes	
MW-06	11/03/98	635.50	637.97	620.30	611.30	NP	0.00	20.64	18.17	617.33	No	
MW-06	03/02/99	635.50	637.97	620.30	611.30	NP	0.00	20.60	18.13	617.37	No	
MW-06	04/26/00	635.50	637.97	620.30	611.30	NP	0.00	20.02	17.55	617.95	No	
MW-06	10/10/00	635.50	637.97	620.30	611.30	NP	0.00	20.33	17.86	617.64	No	
MW-06	04/24/01	635.50	637.97	620.30	611.30	NP	0.00	20.83	18.36	617.14	No	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

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MW-06	10/23/01	635.50	637.97	620.30	611.30	NP	0.00	20.43	17.96	617.54	No	
MW-06	04/23/02	635.50	637.97	620.30	611.30	NP	0.00	21.43	18.96	616.54	No	
MW-06	11/05/02	635.50	637.97	620.30	611.30	NP	0.00	21.15	18.68	616.82	No	
MW-06	04/17/03	635.50	637.97	620.30	611.30	NP	0.00	20.56	18.09	617.41	No	
MW-06	10/20/03	635.50	637.97	620.30	611.30	NP	0.00	21.56	19.09	616.41	No	
MW-06	04/19/04	635.32	637.70	620.30	611.30	NP	0.00	22.22	19.84	615.48	No	
MW-06	11/16/04	635.32	637.70	620.30	611.30	NP	0.00	20.75	18.37	616.95	No	
MW-06	04/18/05	635.32	637.70	620.30	611.30	NP	0.00	20.95	18.57	616.75	No	
MW-06	10/11/05	635.32	637.70	620.30	611.30	NP	0.00	20.52	18.14	617.18	No	
MW-06	05/23/06	635.32	637.70	620.30	611.30	NP	0.00	19.95	17.57	617.75	No	
MW-06	10/16/06	635.32	637.70	620.30	611.30	NP	0.00	20.43	18.05	617.27	No	
MW-06	04/23/07	635.32	637.70	620.30	611.30	NP	0.00	21.11	18.73	616.59	No	Well bent
MW-06	09/25/07	635.32	637.70	620.30	611.30	NP	0.00	21.08	18.70	616.62	No	
MW-06	05/01/08	635.32	637.70	620.30	611.30	NP	0.00	20.08	17.70	617.62	No	
MW-06	10/20/08	635.32	637.70	620.30	611.30	NP	0.00	19.05	16.67	618.65	No	
MW-06	04/18/09	635.32	637.70	620.30	611.30	NP	0.00	19.67	17.29	618.03	No	
MW-06	07/29/09						Abandoned					
MW-06R	07/29/09	637.12	639.04	623.12	613.12							
MW-06R	10/11/09	637.12	639.04	623.12	613.12	NP	0.00	21.33	19.41	617.71	No	
MW-06R	04/28/10	637.12	639.04	623.12	613.12	NP	0.00	21.22	19.30	617.82	No	
MW-06R	10/25/10	637.12	639.04	623.12	613.12	NP	0.00	19.43	17.51	619.61	No	
MW-06R	04/25/11	637.12	639.04	623.12	613.12	NP	0.00	20.56	18.64	618.48	No	
MW-06R	10/10/11	637.12	639.04	623.12	613.12	NP	0.00	19.94	18.02	619.10	No	
MW-06R	01/04/12	637.12	639.04	623.12	613.12	NP	0.00	20.94	19.02	618.10	No	
MW-06R	04/16/12	637.12	639.04	623.12	613.12	NP	0.00	21.74	19.82	617.30	No	
MW-06R	06/26/12	637.12	639.04	623.12	613.12	NP	0.00	20.02	18.10	619.02	No	
MW-06R	09/30/12	637.12	639.04	623.12	613.12	NP	0.00	21.03	19.11	618.01	No	
MW-06R	12/17/12	637.12	639.04	623.12	613.12	NP	0.00	21.58	19.66	617.46	No	
MW-06R	03/25/13	637.12	639.04	623.12	613.12	NP	0.00	22.25	20.33	616.79	No	
MW-06R	05/05/13	637.12	639.04	623.12	613.12	NP	0.00	21.99	20.07	617.05	No	
MW-07	03/23/88	634.40	637.04	619.00	610.00	NP	0.00	21.28	18.64	615.76	No	
MW-07	09/08/88	634.40	637.04	619.00	610.00	NP	0.00	21.54	18.90	615.50	No	
MW-07	09/20/88	634.40	637.04	619.00	610.00	NP	0.00	21.70	19.06	615.34	No	
MW-07	04/27/89	634.40	637.04	619.00	610.00	NP	0.00	21.61	18.97	615.43	No	
MW-07	05/18/89	634.40	637.04	619.00	610.00	NP	0.00	21.36	18.72	615.68	No	
MW-07	06/30/89	634.40	637.04	619.00	610.00	NP	0.00	20.98	18.34	616.06	No	
MW-07	07/12/89	634.40	637.04	619.00	610.00	NP	0.00	21.03	18.39	616.01	No	
MW-07	07/26/89	634.40	637.04	619.00	610.00	NP	0.00	21.00	18.36	616.04	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-07	07/27/89	634.40	637.04	619.00	610.00	NP	0.00	21.08	18.44	615.96	No	
MW-07	09/03/89	634.40	637.04	619.00	610.00	NP	0.00	21.17	18.53	615.87	No	
MW-07	11/16/89	634.40	637.04	619.00	610.00	NP	0.00	21.27	18.63	615.77	No	
MW-07	11/28/89	634.40	637.04	619.00	610.00	NP	0.00	21.31	18.67	615.73	No	
MW-07	06/01/90	634.40	637.04	619.00	610.00	NP	0.00	21.68	19.04	615.36	No	
MW-07	06/19/90	634.40	637.04	619.00	610.00	NP	0.00	21.50	18.86	615.54	No	
MW-07	06/27/90	634.40	637.04	619.00	610.00	NP	0.00	21.47	18.83	615.57	No	
MW-07	07/05/90	634.40	637.04	619.00	610.00	NP	0.00	21.46	18.82	615.58	No	
MW-07	07/13/90	634.40	637.04	619.00	610.00	NP	0.00	21.49	18.85	615.55	No	
MW-07	07/17/90	634.40	637.04	619.00	610.00	NP	0.00	21.37	18.73	615.67	No	
MW-07	07/25/90	634.40	637.04	619.00	610.00	NP	0.00	21.36	18.72	615.68	No	
MW-07	08/09/90	634.40	637.04	619.00	610.00	NP	0.00	21.34	18.70	615.70	No	
MW-07	08/14/90	634.40	637.04	619.00	610.00	NP	0.00	21.38	18.74	615.66	No	
MW-07	08/27/90	634.40	637.04	619.00	610.00	NP	0.00	21.34	18.70	615.70	No	
MW-07	09/06/90	634.40	637.04	619.00	610.00	NP	0.00	21.30	18.66	615.74	No	
MW-07	01/04/91	634.40	637.04	619.00	610.00	NP	0.00	20.89	18.25	616.15	No	
MW-07	01/30/91	634.40	637.04	619.00	610.00	NP	0.00	20.98	18.34	616.06	No	
MW-07	04/24/91	634.40	637.04	619.00	610.00	NP	0.00	21.43	18.79	615.61	No	
MW-07	07/09/91	634.40	637.04	619.00	610.00	NP	0.00	20.19	17.55	616.85	No	
MW-07	08/06/91	634.40	637.04	619.00	610.00	NP	0.00	19.83	17.19	617.21	No	
MW-07	09/04/91	634.40	637.04	619.00	610.00	NP	0.00	19.94	17.30	617.10	No	
MW-07	10/08/91	634.40	637.04	619.00	610.00	NP	0.00	19.60	16.96	617.44	No	
MW-07	11/08/91	634.40	637.04	619.00	610.00	NP	0.00	19.37	16.73	617.67	No	
MW-07	12/03/91	634.40	637.04	619.00	610.00	NP	0.00	19.32	16.68	617.72	No	
MW-07	01/07/92	634.40	637.04	619.00	610.00	NP	0.00	19.30	16.66	617.74	No	
MW-07	02/04/92	634.40	637.04	619.00	610.00	NP	0.00	19.51	16.87	617.53	No	
MW-07	03/03/92	634.40	637.04	619.00	610.00	NP	0.00	19.76	17.12	617.28	No	
MW-07	09/24/92	634.40	637.04	619.00	610.00	NP	0.00	16.47	13.83	620.57	Yes	
MW-07	10/14/92	634.40	637.04	619.00	610.00	NP	0.00	19.17	16.53	617.87	No	
MW-07	06/25/93	634.40	637.04	619.00	610.00	NP	0.00	17.54	14.90	619.50	Yes	
MW-07	10/28/93	634.40	637.04	619.00	610.00	NP	0.00	19.16	16.52	617.88	No	
MW-07	01/29/94	634.40	637.04	619.00	610.00	NP	0.00	19.77	17.13	617.27	No	
MW-07	04/27/94	634.40	637.04	619.00	610.00	NP	0.00	20.43	17.79	616.61	No	
MW-07	07/21/94	634.40	637.04	619.00	610.00	NP	0.00	19.36	16.72	617.68	No	
MW-07	10/25/94	634.40	637.04	619.00	610.00	NP	0.00	19.68	17.04	617.36	No	
MW-07	10/27/94	634.40	637.04	619.00	610.00	NP	0.00	19.16	16.52	617.88	No	
MW-07	11/02/94	634.40	637.04	619.00	610.00	NP	0.00	17.10	14.46	619.94	Yes	
MW-07	02/01/95	634.40	637.04	619.00	610.00	NP	0.00	20.24	17.60	616.80	No	
MW-07	04/04/95	634.40	637.04	619.00	610.00	NP	0.00	20.62	17.98	616.42	No	
MW-07	07/12/95	634.40	637.04	619.00	610.00	NP	0.00	20.36	17.72	616.68	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations	
MW-07	11/13/95	634.40	637.04	619.00	610.00	NP	0.00	20.01	17.37	617.03	No		
MW-07	03/13/96	634.40	637.04	619.00	610.00	NP	0.00	20.60	17.96	616.44	No		
MW-07	04/22/96	634.40	637.04	619.00	610.00	NP	0.00	20.47	17.83	616.57	No		
MW-07	10/08/96	634.40	637.04	619.00	610.00	NP	0.00	18.96	16.32	618.08	No		
MW-07	04/29/97	634.40	637.04	619.00	610.00	NP	0.00	18.75	16.11	618.29	No		
MW-07	11/03/98	634.40	637.04	619.00	610.00	NP	0.00	20.85	18.21	616.19	No		
MW-07	03/02/99	634.40	637.04	619.00	610.00	NP	0.00	20.90	18.26	616.14	No		
MW-07	04/26/00	634.40	637.04	619.00	610.00	NP	0.00	20.37	17.73	616.67	No		
MW-07	10/10/00	634.40	637.04	619.00	610.00	NP	0.00	19.68	17.04	617.36	No		
MW-07	04/24/01	634.40	637.04	619.00	610.00	NP	0.00	20.54	17.90	616.50	No		
MW-07	10/23/01	634.40	637.04	619.00	610.00	NP	0.00	20.63	17.99	616.41	No		
MW-07	04/23/02	634.40	637.04	619.00	610.00	NP	0.00	21.15	18.51	615.89	No		
MW-07	11/05/02	634.40	637.04	619.00	610.00	NP	0.00	20.59	17.95	616.45	No	Cover Rusted On	
MW-07	08/28/03					Abandoned							
MW-08	03/23/88	632.50	634.78	616.60	606.60	NP	0.00	20.97	18.69	613.81	No		
MW-08	09/08/88	632.50	634.78	616.60	606.60	NP	0.00	21.52	19.24	613.26	No		
MW-08	09/20/88	632.50	634.78	616.60	606.60	NP	0.00	21.62	19.34	613.16	No		
MW-08	04/27/89	632.50	634.78	616.60	606.60	NP	0.00	21.30	19.02	613.48	No		
MW-08	05/18/89	632.50	634.78	616.60	606.60	NP	0.00	21.04	18.76	613.74	No		
MW-08	06/30/89	632.50	634.78	616.60	606.60	NP	0.00	20.85	18.57	613.93	No		
MW-08	07/12/89	632.50	634.78	616.60	606.60	NP	0.00	20.87	18.59	613.91	No		
MW-08	07/26/89	632.50	634.78	616.60	606.60	NP	0.00	20.90	18.62	613.88	No		
MW-08	07/27/89	632.50	634.78	616.60	606.60	NP	0.00	20.96	18.68	613.82	No		
MW-08	09/03/89	632.50	634.78	616.60	606.60	NP	0.00	21.13	18.85	613.65	No		
MW-08	11/16/89	632.50	634.78	616.60	606.60	NP	0.00	21.21	18.93	613.57	No		
MW-08	11/28/89	632.50	634.78	616.60	606.60	NP	0.00	21.25	18.97	613.53	No		
MW-08	06/01/90	632.50	634.78	616.60	606.60	NP	0.00	21.92	19.64	612.86	No		
MW-08	06/19/90	632.50	634.78	616.60	606.60	NP	0.00	21.59	19.31	613.19	No		
MW-08	06/27/90	632.50	634.78	616.60	606.60	NP	0.00	21.57	19.29	613.21	No		
MW-08	07/05/90	632.50	634.78	616.60	606.60	NP	0.00	21.56	19.28	613.22	No		
MW-08	07/13/90	632.50	634.78	616.60	606.60	NP	0.00	21.60	19.32	613.18	No		
MW-08	07/17/90	632.50	634.78	616.60	606.60	NP	0.00	21.47	19.19	613.31	No		
MW-08	07/25/90	632.50	634.78	616.60	606.60	NP	0.00	21.50	19.22	613.28	No		
MW-08	08/09/90	632.50	634.78	616.60	606.60	NP	0.00	21.51	19.23	613.27	No		
MW-08	08/14/90	632.50	634.78	616.60	606.60	NP	0.00	21.55	19.27	613.23	No		
MW-08	08/27/90	632.50	634.78	616.60	606.60	NP	0.00	21.53	19.25	613.25	No		
MW-08	09/06/90	632.50	634.78	616.60	606.60	NP	0.00	21.47	19.19	613.31	No		
MW-08	01/04/91	632.50	634.78	616.60	606.60	NP	0.00	20.80	18.52	613.98	No		
MW-08	01/30/91	632.50	634.78	616.60	606.60	NP	0.00	20.97	18.69	613.81	No		

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-08	04/24/91	632.50	634.78	616.60	606.60	NP	0.00	21.44	19.16	613.34	No	
MW-08	07/09/91	632.50	634.78	616.60	606.60	NP	0.00	20.11	17.83	614.67	No	
MW-08	10/08/91	632.50	634.78	616.60	606.60	NP	0.00	18.47	16.19	616.31	No	
MW-08	01/07/92	632.50	634.78	616.60	606.60	NP	0.00	17.97	15.69	616.81	Yes	
MW-08	10/14/92	632.50	634.78	616.60	606.60	NP	0.00	17.78	15.50	617.00	Yes	
MW-08	06/25/93	632.50	634.78	616.60	606.60	NP	0.00	17.54	15.26	617.24	Yes	
MW-08	10/28/93	632.50	634.78	616.60	606.60	NP	0.00	17.73	15.45	617.05	Yes	
MW-08	01/29/94	632.50	634.78	616.60	606.60	NP	0.00	18.34	16.06	616.44	No	
MW-08	04/27/94	632.50	634.78	616.60	606.60	NP	0.00	18.98	16.70	615.80	No	
MW-08	07/21/94	632.50	634.78	616.60	606.60	NP	0.00	17.98	15.70	616.80	Yes	
MW-08	10/25/94	632.50	634.78	616.60	606.60	NP	0.00	18.29	16.01	616.49	No	
MW-08	10/27/94	632.50	634.78	616.60	606.60	NP	0.00	17.98	15.70	616.80	Yes	
MW-08	11/02/94	632.50	634.78	616.60	606.60	NP	0.00	17.38	15.10	617.40	Yes	
MW-08	02/01/95	632.50	634.78	616.60	606.60	NP	0.00	18.90	16.62	615.88	No	
MW-08	04/04/95	632.50	634.78	616.60	606.60	NP	0.00	19.59	17.31	615.19	No	
MW-08	07/12/95	632.50	634.78	616.60	606.60	NP	0.00	19.43	17.15	615.35	No	
MW-08	11/13/95	632.50	634.78	616.60	606.60	NP	0.00	18.81	16.53	615.97	No	
MW-08	03/13/96	632.50	634.78	616.60	606.60	NP	0.00	19.49	17.21	615.29	No	
MW-08	04/22/96	632.50	634.78	616.60	606.60	NP	0.00	19.05	16.77	615.73	No	
MW-08	10/08/96	632.50	634.78	616.60	606.60	NP	0.00	17.38	15.10	617.40	Yes	
MW-08	04/29/97	632.50	634.78	616.60	606.60	NP	0.00	17.16	14.88	617.62	Yes	
MW-08	11/03/98	632.50	634.78	616.60	606.60	NP	0.00	19.99	17.71	614.79	No	
MW-08	03/02/99	632.50	634.78	616.60	606.60	NP	0.00	20.09	17.81	614.69	No	
MW-08	04/26/00	632.50	634.78	616.60	606.60	NP	0.00	19.04	16.76	615.74	No	
MW-08	10/10/00	632.50	634.78	616.60	606.60	NP	0.00	19.45	17.17	615.33	No	
MW-08	04/24/01	632.50	634.78	616.60	606.60	NP	0.00	20.23	17.95	614.55	No	
MW-08	10/23/01	632.50	634.78	616.60	606.60	NP	0.00	19.66	17.38	615.12	No	
MW-08	04/23/02	632.50	634.78	616.60	606.60	NP	0.00	20.55	18.27	614.23	No	
MW-08	11/05/02	632.50	634.78	616.60	606.60	NP	0.00	19.50	17.22	615.28	No	
MW-08	08/18/03						Abandoned					
MW-09	03/23/88	629.40	631.98	613.90	604.90	NP	0.00	16.19	13.61	615.79	Yes	
MW-09	09/08/88	629.40	631.98	613.90	604.90	NP	0.00	15.22	12.64	616.76	Yes	
MW-09	09/20/88	629.40	631.98	613.90	604.90	NP	0.00	15.27	12.69	616.71	Yes	
MW-09	04/27/89	629.40	631.98	613.90	604.90	NP	0.00	15.72	13.14	616.26	Yes	
MW-09	05/18/89	629.40	631.98	613.90	604.90	NP	0.00	15.09	12.51	616.89	Yes	
MW-09	06/30/89	629.40	631.98	613.90	604.90	NP	0.00	15.00	12.42	616.98	Yes	
MW-09	07/12/89	629.40	631.98	613.90	604.90	NP	0.00	15.36	12.78	616.62	Yes	
MW-09	07/26/89	629.40	631.98	613.90	604.90	NP	0.00	15.67	13.09	616.31	Yes	
MW-09	07/27/89	629.40	631.98	613.90	604.90	NP	0.00	15.74	13.16	616.24	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-09	09/03/89	629.40	631.98	613.90	604.90	NP	0.00	15.50	12.92	616.48	Yes	
MW-09	11/16/89	629.40	631.98	613.90	604.90	NP	0.00	13.77	11.19	618.21	Yes	
MW-09	11/28/89	629.40	631.98	613.90	604.90	NP	0.00	14.28	11.70	617.70	Yes	
MW-09	06/01/90	629.40	631.98	613.90	604.90	NP	0.00	14.87	12.29	617.11	Yes	
MW-09	06/19/90	629.40	631.98	613.90	604.90	NP	0.00	14.54	11.96	617.44	Yes	
MW-09	06/27/90	629.40	631.98	613.90	604.90	NP	0.00	14.70	12.12	617.28	Yes	
MW-09	07/05/90	629.40	631.98	613.90	604.90	NP	0.00	15.03	12.45	616.95	Yes	
MW-09	07/13/90	629.40	631.98	613.90	604.90	NP	0.00	15.28	12.70	616.70	Yes	
MW-09	07/17/90	629.40	631.98	613.90	604.90	NP	0.00	15.15	12.57	616.83	Yes	
MW-09	07/25/90	629.40	631.98	613.90	604.90	NP	0.00	15.50	12.92	616.48	Yes	
MW-09	08/09/90	629.40	631.98	613.90	604.90	NP	0.00	15.56	12.98	616.42	Yes	
MW-09	08/14/90	629.40	631.98	613.90	604.90	NP	0.00	15.75	13.17	616.23	Yes	
MW-09	08/27/90	629.40	631.98	613.90	604.90	NP	0.00	14.93	12.35	617.05	Yes	
MW-09	09/06/90	629.40	631.98	613.90	604.90	NP	0.00	15.09	12.51	616.89	Yes	
MW-09	01/04/91	629.40	631.98	613.90	604.90	NP	0.00	14.28	11.70	617.70	Yes	
MW-09	01/30/91	629.40	631.98	613.90	604.90	NP	0.00	15.26	12.68	616.72	Yes	
MW-09	04/24/91	629.40	631.98	613.90	604.90	NP	0.00	15.47	12.89	616.51	Yes	
MW-09	07/09/91	629.40	631.98	613.90	604.90	NP	0.00	12.85	10.27	619.13	Yes	
MW-09	10/08/91	629.40	631.98	613.90	604.90	NP	0.00	11.98	9.40	620.00	Yes	
MW-09	01/07/92	629.40	631.98	613.90	604.90	NP	0.00	10.20	7.62	621.78	Yes	
MW-09	10/14/92	629.40	631.98	613.90	604.90	NP	0.00	9.98	7.40	622.00	Yes	
MW-09	01/29/94	629.40	631.98	613.90	604.90	NP	0.00	14.04	11.46	617.94	Yes	
MW-09	04/27/94	629.40	631.98	613.90	604.90	NP	0.00	12.84	10.26	619.14	Yes	
MW-09	07/21/94	629.40	631.98	613.90	604.90	NP	0.00	12.96	10.38	619.02	Yes	
MW-09	10/25/94	629.40	631.98	613.90	604.90	NP	0.00	11.62	9.04	620.36	Yes	
MW-09	10/27/94	629.40	631.98	613.90	604.90	NP	0.00	11.18	8.60	620.80	Yes	
MW-09	11/02/94	629.40	631.98	613.90	604.90	NP	0.00	9.30	6.72	622.68	Yes	
MW-09	02/01/95	629.40	631.98	613.90	604.90	NP	0.00	14.66	12.08	617.32	Yes	
MW-09	04/04/95	629.40	631.98	613.90	604.90	NP	0.00	15.61	13.03	616.37	Yes	
MW-09	07/12/95	629.40	631.98	613.90	604.90	NP	0.00	13.70	11.12	618.28	Yes	
MW-09	11/13/95	629.40	631.98	613.90	604.90	NP	0.00	10.19	7.61	621.79	Yes	
MW-09	03/13/96	629.40	631.98	613.90	604.90	NP	0.00	14.97	12.39	617.01	Yes	
MW-09	10/08/96	629.40	631.98	613.90	604.90	NP	0.00	10.94	8.36	621.04	Yes	
MW-09	04/29/97	629.40	631.98	613.90	604.90	NP	0.00	10.35	7.77	621.63	Yes	
MW-09	11/03/98	629.40	631.98	613.90	604.90	NP	0.00	14.24	11.66	617.74	Yes	
MW-09	03/02/99	629.40	631.98	613.90	604.90	NP	0.00	14.95	12.37	617.03	Yes	
MW-09	04/26/00	629.40	631.98	613.90	604.90	NP	0.00	14.20	11.62	617.78	Yes	
MW-09	08/18/00	629.40	631.98	613.90	604.90	NP	0.00	14.24	11.66	617.74	Yes	
MW-09	10/10/00	629.40	631.98	613.90	604.90	NP	0.00	14.66	12.08	617.32	Yes	
MW-09	11/05/02	629.40	631.98	613.90	604.90	NP	0.00	15.79	13.21	616.19	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-09	10/21/03	Monitoring Well Replaced Due to Road Construction										
MW-09	04/19/04	631.30	634.22	613.90	604.90	NP	0.00	20.55	17.63	613.67	No	
MW-09	11/16/04	631.30	634.22	613.90	604.90	NP	0.00	18.39	15.47	615.83	Yes	
MW-09	04/18/05	631.30	634.22	613.90	604.90	NP	0.00	19.32	16.40	614.90	Yes	
MW-09	10/11/05	631.30	634.22	613.90	604.90	NP	0.00	18.50	15.58	615.72	Yes	
MW-09	05/23/06	631.30	634.22	613.90	604.90	NP	0.00	17.69	14.77	616.53	Yes	
MW-09	10/16/06	631.30	634.22	613.90	604.90	NP	0.00	18.58	15.66	615.64	Yes	
MW-09	04/23/07	631.30	634.22	613.90	604.90	NP	0.00	19.31	16.39	614.91	Yes	
MW-09	09/25/07	631.30	634.22	613.90	604.90	NP	0.00	19.46	16.54	614.76	Yes	
MW-09	05/01/08	631.30	634.22	613.90	604.90	NP	0.00	18.21	15.29	616.01	Yes	
MW-09	10/20/08	631.30	634.22	613.90	604.90	NP	0.00	16.83	13.91	617.39	Yes	
MW-09	04/18/09	631.30	634.22	613.90	604.90	NP	0.00	17.66	14.74	616.56	Yes	
MW-09	10/11/09	631.30	634.22	613.90	604.90	NP	0.00	18.17	15.25	616.05	Yes	
MW-09	04/28/10	631.30	634.22	613.90	604.90	NP	0.00	18.12	15.20	616.10	Yes	
MW-09	10/25/10	631.30	634.22	613.90	604.90	NP	0.00	16.62	13.70	617.60	Yes	
MW-09	04/25/11	631.30	634.22	613.90	604.90	NP	0.00	17.42	14.50	616.80	Yes	
MW-09	10/10/11	631.30	634.22	613.90	604.90	NP	0.00	16.93	14.01	617.29	Yes	
MW-09	01/04/12	631.30	634.22	613.90	604.90	NP	0.00	18.12	15.20	616.10	Yes	
MW-09	04/16/12	631.30	634.22	613.90	604.90	NP	0.00	18.75	15.83	615.47	Yes	
MW-09	06/26/12	631.30	634.22	613.90	604.90	NP	0.00	16.50	13.58	617.72	Yes	
MW-09	09/30/12	631.30	634.22	613.90	604.90	NP	0.00	17.92	15.00	616.30	Yes	
MW-09	12/17/12	631.30	634.22	613.90	604.90	NP	0.00	18.54	15.62	615.68	Yes	
MW-09	03/25/13	631.30	634.22	613.90	604.90	NP	0.00	19.38	16.46	614.84	Yes	
MW-09	05/05/13	631.30	634.22	613.90	604.90	NP	0.00	19.07	16.15	615.15	Yes	
MW-10	03/23/88	631.40	633.77	615.90	606.90	NP	0.00	18.01	15.64	615.76	No	
MW-10	09/08/88	631.40	633.77	615.90	606.90	NP	0.00	18.38	16.01	615.39	No	
MW-10	09/20/88	631.40	633.77	615.90	606.90	NP	0.00	18.60	16.23	615.17	No	
MW-10	04/27/89	631.40	633.77	615.90	606.90	NP	0.00	18.37	16.00	615.40	No	
MW-10	05/18/89	631.40	633.77	615.90	606.90	NP	0.00	18.10	15.73	615.67	No	
MW-10	06/30/89	631.40	633.77	615.90	606.90	NP	0.00	17.55	15.18	616.22	Yes	
MW-10	07/12/89	631.40	633.77	615.90	606.90	NP	0.00	17.66	15.29	616.11	Yes	
MW-10	07/26/89	631.40	633.77	615.90	606.90	NP	0.00	17.61	15.24	616.16	Yes	
MW-10	07/27/89	631.40	633.77	615.90	606.90	NP	0.00	17.68	15.31	616.09	Yes	
MW-10	09/03/89	631.40	633.77	615.90	606.90	NP	0.00	17.73	15.36	616.04	Yes	
MW-10	11/16/89	631.40	633.77	615.90	606.90	NP	0.00	17.94	15.57	615.83	No	
MW-10	11/28/89	631.40	633.77	615.90	606.90	NP	0.00	18.20	15.83	615.57	No	
MW-10	06/01/90	631.40	633.77	615.90	606.90	NP	0.00	18.34	15.97	615.43	No	
MW-10	06/19/90	631.40	633.77	615.90	606.90	NP	0.00	18.14	15.77	615.63	No	
MW-10	06/27/90	631.40	633.77	615.90	606.90	NP	0.00	18.28	15.91	615.49	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-10	07/05/90	631.40	633.77	615.90	606.90	NP	0.00	18.50	16.13	615.27	No	
MW-10	07/13/90	631.40	633.77	615.90	606.90	NP	0.00	18.40	16.03	615.37	No	
MW-10	07/17/90	631.40	633.77	615.90	606.90	NP	0.00	18.23	15.86	615.54	No	
MW-10	07/25/90	631.40	633.77	615.90	606.90	NP	0.00	18.36	15.99	615.41	No	
MW-10	08/09/90	631.40	633.77	615.90	606.90	NP	0.00	18.28	15.91	615.49	No	
MW-10	08/14/90	631.40	633.77	615.90	606.90	NP	0.00	18.39	16.02	615.38	No	
MW-10	08/27/90	631.40	633.77	615.90	606.90	NP	0.00	18.09	15.72	615.68	No	
MW-10	09/06/90	631.40	633.77	615.90	606.90	NP	0.00	18.02	15.65	615.75	No	
MW-10	01/04/91	631.40	633.77	615.90	606.90	NP	0.00	17.44	15.07	616.33	Yes	
MW-10	01/30/91	631.40	633.77	615.90	606.90	NP	0.00	17.57	15.20	616.20	Yes	
MW-10	04/24/91	631.40	633.77	615.90	606.90	NP	0.00	18.19	15.82	615.58	No	
MW-10	07/09/91	631.40	633.77	615.90	606.90	NP	0.00	16.16	13.79	617.61	Yes	
MW-10	10/08/91	631.40	633.77	615.90	606.90	NP	0.00	14.89	12.52	618.88	Yes	
MW-10	01/07/92	631.40	633.77	615.90	606.90	NP	0.00	14.88	12.51	618.89	Yes	
MW-10	10/14/92	631.40	633.77	615.90	606.90	NP	0.00	14.87	12.50	618.90	Yes	
MW-10	01/29/94	631.40	633.77	615.90	606.90	NP	0.00	16.01	13.64	617.76	Yes	
MW-10	04/27/94	631.40	633.77	615.90	606.90	NP	0.00	16.13	13.76	617.64	Yes	
MW-10	07/21/94	631.40	633.77	615.90	606.90	NP	0.00	14.78	12.41	618.99	Yes	
MW-10	10/25/94	631.40	633.77	615.90	606.90	NP	0.00	15.25	12.88	618.52	Yes	
MW-10	10/27/94	631.40	633.77	615.90	606.90	NP	0.00	14.70	12.33	619.07	Yes	
MW-10	11/02/94	631.40	633.77	615.90	606.90	NP	0.00	17.20	14.83	616.57	Yes	
MW-10	02/01/95	631.40	633.77	615.90	606.90	NP	0.00	16.96	14.59	616.81	Yes	
MW-10	04/04/95	631.40	633.77	615.90	606.90	NP	0.00	17.12	14.75	616.65	Yes	
MW-10	07/12/95	631.40	633.77	615.90	606.90	NP	0.00	16.15	13.78	617.62	Yes	
MW-10	11/13/95	631.40	633.77	615.90	606.90	NP	0.00	14.88	12.51	618.89	Yes	
MW-10	03/13/96	631.40	633.77	615.90	606.90	16.67	0.01	16.68	14.30	617.10	Yes	
MW-10	10/08/96	631.40	633.77	615.90	606.90	NP	0.00	14.02	11.65	619.75	Yes	
MW-10	04/29/97	631.40	633.77	615.90	606.90	NP	0.00	13.30	10.93	620.47	Yes	
MW-10	11/03/98	631.40	633.77	615.90	606.90	NP	0.00	17.01	14.64	616.76	Yes	
MW-10	03/02/99	631.40	633.77	615.90	606.90	NP	0.00	17.01	14.64	616.76	Yes	
MW-10	04/26/00	631.40	633.77	615.90	606.90	NP	0.00	16.18	13.81	617.59	Yes	
MW-10	08/18/00	631.40	633.77	615.90	606.90	NP	0.00	16.62	14.25	617.15	Yes	
MW-10	10/10/00	631.40	633.77	615.90	606.90	NP	0.00	16.80	14.43	616.97	Yes	
MW-10	09/30/02	631.40	633.77	615.90	606.90	NP	0.00	17.09	14.72	616.68	Yes	
MW-10	11/05/02	631.40	633.77	615.90	606.90	NP	0.00	16.34	13.97	617.43	Yes	
MW-10	06/10/03	631.40	633.77	615.90	606.90	NP	0.00	17.85	15.48	615.92	Yes	
MW-10	10/20/03	631.40	633.77	615.90	606.90	NP	0.00	17.97	15.60	615.80	No	
MW-10	12/03/03	631.40	633.77	615.90	606.90	NP	0.00	18.31	15.94	615.46	No	
MW-10	04/19/04	634.75	633.83	615.90	606.90	NP	0.00	18.39	19.31	615.44	No	
MW-10	07/28/04	634.75	633.83	615.90	606.90	NP	0.00	17.74	18.66	616.09	Yes	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-10	11/16/04	634.75	633.83	615.90	606.90	NP	0.00	17.17	18.09	616.66	Yes	
MW-10	04/18/05	634.75	633.83	615.90	606.90	NP	0.00	17.39	18.31	616.44	Yes	
MW-10	10/11/05	634.75	633.83	615.90	606.90	NP	0.00	16.62	17.54	617.21	Yes	
MW-10	05/23/06	634.75	633.83	615.90	606.90	NP	0.00	15.91	16.83	617.92	Yes	
MW-10	10/16/06	634.75	633.83	615.90	606.90	NP	0.00	16.81	17.73	617.02	Yes	
MW-10	04/23/07	634.75	633.83	615.90	606.90	NP	0.00	17.69	18.61	616.14	Yes	
MW-10	09/25/07	634.75	635.95	615.90	606.90	NP	0.00	19.56	18.36	616.39	Yes	
MW-10	05/01/08	634.75	635.95	615.90	606.90	NP	0.00	18.35	17.15	617.60	Yes	
MW-10	10/20/08	634.75	635.95	615.90	606.90	NP	0.00	17.26	16.06	618.69	Yes	
MW-10	04/18/09	634.75	635.95	615.90	606.90	NP	0.00	18.33	17.13	617.62	Yes	
MW-10	10/11/09	634.75	635.95	615.90	606.90	NP	0.00	18.79	17.59	617.16	Yes	
MW-10	04/28/10	634.75	635.95	615.90	606.90	NP	0.00	18.91	17.71	617.04	Yes	
MW-10	10/25/10	634.75	635.95	615.90	606.90	NP	0.00	16.70	15.50	619.25	Yes	
MW-10	04/25/11	634.75	635.95	615.90	606.90	NP	0.00	17.92	16.72	618.03	Yes	
MW-10	10/10/11	634.75	635.95	615.90	606.90	NP	0.00	17.48	16.28	618.47	Yes	
MW-10	01/04/12	634.75	635.95	615.90	606.90	NP	0.00	18.78	17.58	617.17	Yes	
MW-10	04/16/12	634.75	635.95	615.90	606.90	NP	0.00	19.57	18.37	616.38	Yes	
MW-10	06/26/12	634.75	635.95	615.90	606.90	NP	0.00	17.18	15.98	618.77	Yes	
MW-10	09/30/12	634.75	635.95	615.90	606.90	NP	0.00	18.61	17.41	617.34	Yes	
MW-10	12/17/12	634.75	635.95	615.90	606.90	NP	0.00	19.21	18.01	616.74	Yes	
MW-10	03/25/13	634.75	635.95	615.90	606.90	NP	0.00	19.97	18.77	615.98	Yes	
MW-10	05/05/13	634.75	635.95	615.90	606.90	NP	0.00	19.76	18.56	616.19	Yes	
MW-10	10/03/13	634.75	635.95	615.90	606.90	NP	0.00	19.31	18.11	616.64	Yes	
MW-10	05/21/14	634.75	635.95	615.90	606.90	NP	0.00	17.85	16.65	618.10	Yes	
MW-10	10/31/14	634.75	635.95	615.90	606.90	NP	0.00	17.43	16.23	618.52	Yes	
MW-10	05/05/15	634.75	635.95	615.90	606.90	NP	0.00	19.14	17.94	616.81	Yes	
MW-10	10/05/15	634.75	635.95	615.90	606.90	NP	0.00	17.08	15.88	618.87	Yes	
MW-10	05/23/16	634.75	635.95	615.90	606.90	NP	0.00	15.15	13.95	620.80	Yes	
MW-10	10/03/16	634.75	635.95	615.90	606.90	NP	0.00	16.22	15.02	619.73	Yes	
MW-10	06/29/17	634.75	635.95	615.90	606.90	NP	0.00	15.75	14.55	620.20	Yes	
MW-11	03/23/88	630.10	632.57	614.90	605.90	NP	0.00	17.13	14.66	615.44	Yes	
MW-11	09/08/88	630.10	632.57	614.90	605.90	NP	0.00	17.50	15.03	615.07	Yes	
MW-11	09/20/88	630.10	632.57	614.90	605.90	NP	0.00	17.55	15.08	615.02	Yes	
MW-11	04/27/89	630.10	632.57	614.90	605.90	NP	0.00	17.93	15.46	614.64	No	
MW-11	05/18/89	630.10	632.57	614.90	605.90	NP	0.00	17.36	14.89	615.21	Yes	
MW-11	06/30/89	630.10	632.57	614.90	605.90	NP	0.00	16.88	14.41	615.69	Yes	
MW-11	07/12/89	630.10	632.57	614.90	605.90	NP	0.00	16.95	14.48	615.62	Yes	
MW-11	07/26/89	630.10	632.57	614.90	605.90	NP	0.00	17.01	14.54	615.56	Yes	
MW-11	07/27/89	630.10	632.57	614.90	605.90	NP	0.00	17.04	14.57	615.53	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-11	09/03/89	630.10	632.57	614.90	605.90	NP	0.00	17.14	14.67	615.43	Yes	
MW-11	11/16/89	630.10	632.57	614.90	605.90	NP	0.00	17.15	14.68	615.42	Yes	
MW-11	11/28/89	630.10	632.57	614.90	605.90	NP	0.00	17.25	14.78	615.32	Yes	
MW-11	06/01/90	630.10	632.57	614.90	605.90	NP	0.00	17.33	14.86	615.24	Yes	
MW-11	06/19/90	630.10	632.57	614.90	605.90	NP	0.00	16.91	14.44	615.66	Yes	
MW-11	06/27/90	630.10	632.57	614.90	605.90	NP	0.00	17.12	14.65	615.45	Yes	
MW-11	07/05/90	630.10	632.57	614.90	605.90	NP	0.00	17.24	14.77	615.33	Yes	
MW-11	07/13/90	630.10	632.57	614.90	605.90	NP	0.00	17.33	14.86	615.24	Yes	
MW-11	07/17/90	630.10	632.57	614.90	605.90	NP	0.00	17.19	14.72	615.38	Yes	
MW-11	07/25/90	630.10	632.57	614.90	605.90	NP	0.00	17.30	14.83	615.27	Yes	
MW-11	08/09/90	630.10	632.57	614.90	605.90	NP	0.00	17.30	14.83	615.27	Yes	
MW-11	08/14/90	630.10	632.57	614.90	605.90	NP	0.00	17.39	14.92	615.18	Yes	
MW-11	08/27/90	630.10	632.57	614.90	605.90	NP	0.00	17.21	14.74	615.36	Yes	
MW-11	09/06/90	630.10	632.57	614.90	605.90	NP	0.00	17.12	14.65	615.45	Yes	
MW-11	01/04/91	630.10	632.57	614.90	605.90	NP	0.00	16.80	14.33	615.77	Yes	
MW-11	01/30/91	630.10	632.57	614.90	605.90	NP	0.00	16.99	14.52	615.58	Yes	
MW-11	04/24/91	630.10	632.57	614.90	605.90	NP	0.00	17.31	14.84	615.26	Yes	
MW-11	07/09/91	630.10	632.57	614.90	605.90	NP	0.00	15.56	13.09	617.01	Yes	
MW-11	10/08/91	630.10	632.57	614.90	605.90	NP	0.00	14.07	11.60	618.50	Yes	
MW-11	01/07/92	630.10	632.57	614.90	605.90	NP	0.00	14.16	11.69	618.41	Yes	
MW-11	10/14/92	630.10	632.57	614.90	605.90	NP	0.00	14.06	11.59	618.51	Yes	
MW-11	01/29/94	630.10	632.57	614.90	605.90	NP	0.00	15.12	12.65	617.45	Yes	
MW-11	04/27/94	630.10	632.57	614.90	605.90	NP	0.00	15.16	12.69	617.41	Yes	
MW-11	07/21/94	630.10	632.57	614.90	605.90	NP	0.00	13.95	11.48	618.62	Yes	
MW-11	10/25/94	630.10	632.57	614.90	605.90	NP	0.00	13.90	11.43	618.67	Yes	
MW-11	10/27/94	630.10	632.57	614.90	605.90	NP	0.00	13.51	11.04	619.06	Yes	
MW-11	02/01/95	630.10	632.57	614.90	605.90	NP	0.00	18.05	15.58	614.52	No	
MW-11	04/04/95	630.10	632.57	614.90	605.90	NP	0.00	16.09	13.62	616.48	Yes	
MW-11	07/12/95	630.10	632.57	614.90	605.90	NP	0.00	15.13	12.66	617.44	Yes	
MW-11	11/13/95	630.10	632.57	614.90	605.90	NP	0.00	13.85	11.38	618.72	Yes	
MW-11	03/13/96	630.10	632.57	614.90	605.90	NP	0.00	15.79	13.32	616.78	Yes	
MW-11	10/08/96	630.10	632.57	614.90	605.90	NP	0.00	13.26	10.79	619.31	Yes	
MW-11	04/29/97	630.10	632.57	614.90	605.90	NP	0.00	12.85	10.38	619.72	Yes	
MW-11	11/03/98	630.10	632.57	614.90	605.90	NP	0.00	15.93	13.46	616.64	Yes	
MW-11	03/02/99	630.10	632.57	614.90	605.90	NP	0.00	16.78	14.31	615.79	Yes	
MW-11	04/26/00	630.10	632.57	614.90	605.90	NP	0.00	15.39	12.92	617.18	Yes	
MW-11	08/18/00	630.10	632.57	614.90	605.90	NP	0.00	15.95	13.48	616.62	Yes	
MW-11	10/10/00	630.10	632.57	614.90	605.90	NP	0.00	15.95	13.48	616.62	Yes	
MW-11	11/05/02	630.10	632.57	614.90	605.90	NP	0.00	15.95	13.48	616.62	Yes	Cover Rusted On
MW-11	08/18/03						Abandoned					

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-12	03/23/88	630.60	633.72	617.10	608.10	16.95	0.73	17.68	13.99	616.61	No	
MW-12	09/08/88	630.60	633.72	617.10	608.10	17.14	1.31	18.45	14.32	616.28	No	
MW-12	09/20/88	630.60	633.72	617.10	608.10	17.18	1.72	18.90	14.45	616.15	No	
MW-12	04/27/89	630.60	633.72	617.10	608.10	17.36	2.45	19.81	14.79	615.81	No	
MW-12	05/18/89	630.60	633.72	617.10	608.10	17.04	1.77	18.81	14.32	616.28	No	
MW-12	06/30/89	630.60	633.72	617.10	608.10	16.7	0.63	17.33	13.72	616.88	No	
MW-12	07/12/89	630.60	633.72	617.10	608.10	16.76	1.07	17.83	13.88	616.72	No	
MW-12	07/26/89	630.60	633.72	617.10	608.10	16.73	0.88	17.61	13.81	616.79	No	
MW-12	07/27/89	630.60	633.72	617.10	608.10	16.74	1.49	18.23	13.96	616.64	No	
MW-12	09/03/89	630.60	633.72	617.10	608.10	16.81	2.01	18.82	14.14	616.46	No	
MW-12	11/16/89	630.60	633.72	617.10	608.10	16.17	2.51	18.68	13.62	616.98	No	
MW-12	11/29/89	630.60	633.72	617.10	608.10	16.76	1.59	18.35	14.00	616.60	No	
MW-12	12/01/89	630.60	633.72	617.10	608.10	16.86	1.11	17.97	13.99	616.61	No	
MW-12	12/02/89	630.60	633.72	617.10	608.10	17.00	2.42	19.42	14.43	616.17	No	
MW-12	05/04/90	630.60	633.72	617.10	608.10	17.11	1.84	18.95	14.41	616.19	No	
MW-12	06/19/90	630.60	633.72	617.10	608.10	16.95	1.35	18.30	14.13	616.47	No	
MW-12	06/27/90	630.60	633.72	617.10	608.10	17.05	1.53	18.58	14.28	616.32	No	
MW-12	07/05/90	630.60	633.72	617.10	608.10	17.05	2.33	19.38	14.46	616.14	No	
MW-12	07/13/90	630.60	633.72	617.10	608.10	17.00	1.80	18.80	14.29	616.31	No	
MW-12	07/17/90	630.60	633.72	617.10	608.10	16.97	1.73	18.70	14.24	616.36	No	
MW-12	07/25/90	630.60	633.72	617.10	608.10	17.05	2.27	19.32	14.44	616.16	No	
MW-12	08/09/90	630.60	633.72	617.10	608.10	17.13	2.34	19.47	14.54	616.06	No	
MW-12	01/04/91	630.60	633.72	617.10	608.10	16.68	1.23	17.91	13.84	616.76	No	
MW-12	01/30/91	630.60	633.72	617.10	608.10	16.72	1.95	18.67	14.04	616.56	No	
MW-12	04/24/91	630.60	633.72	617.10	608.10	16.83	2.34	19.17	14.24	616.36	No	
MW-12	07/09/91	630.60	633.72	617.10	608.10	15.70	1.18	16.88	12.85	617.75	Yes	
MW-12	10/08/91	630.60	633.72	617.10	608.10	14.22	2.70	16.92	11.71	618.89	Yes	
MW-12	01/07/92	630.60	633.72	617.10	608.10	14.21	2.86	17.07	11.74	618.86	Yes	
MW-12	10/14/92	630.60	633.72	617.10	608.10	13.93	3.65	17.58	11.63	618.97	Yes	
MW-12	06/25/93	630.60	633.72	617.10	608.10	12.73	4.78	17.51	10.69	619.91	Yes	
MW-12	10/28/93	630.60	633.72	617.10	608.10	14.80	2.20	17.00	12.18	618.42	Yes	
MW-12	01/29/94	630.60	633.72	617.10	608.10	15.56	1.13	16.69	12.70	617.90	Yes	
MW-12	04/27/94	630.60	633.72	617.10	608.10	15.88	0.57	16.45	12.89	617.71	Yes	
MW-12	07/21/94	630.60	633.72	617.10	608.10	14.78	0.54	15.32	11.78	618.82	Yes	
MW-12	08/30/94	630.60	633.72	617.10	608.10	15.58	0.41	15.99	12.55	618.05	Yes	
MW-12	10/25/94	630.60	633.72	617.10	608.10	15.09	0.44	15.53	12.07	618.53	Yes	
MW-12	07/12/95	630.60	633.72	617.10	608.10	15.99	0.85	16.84	13.06	617.54	Yes	
MW-12	11/13/95	630.60	633.72	617.10	608.10	14.95	1.60	16.55	12.19	618.41	Yes	
MW-12	03/13/96	630.60	633.72	617.10	608.10	16.47	0.73	17.20	13.51	617.09	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-12	10/08/96	630.60	633.72	617.10	608.10	14.10	2.90	17.00	11.64	618.96	Yes	
MW-12	04/29/97	630.60	633.72	617.10	608.10	13.70	3.50	17.20	11.37	619.23	Yes	
MW-12	06/10/97	630.60	633.72	617.10	608.10	14.47	2.43	16.90	11.90	618.70	Yes	FP bailed 5/22/97
MW-12	11/03/98	630.60	633.72	617.10	608.10	16.71	1.66	18.37	13.96	616.64	No	
MW-12	03/02/99	630.60	633.72	617.10	608.10	16.75	2.34	19.09	14.16	616.44	No	
MW-12	10/07/99	630.60	633.72	617.10	608.10	14.28	3.28	17.56	11.90	618.70	Yes	
MW-12	11/09/99	630.60	633.72	617.10	608.10	14.26	3.11	17.37	11.84	618.76	Yes	bailed .5 gal. FP
MW-12	12/21/99	630.60	633.72	617.10	608.10	17.21	0.15	17.36	14.12	616.48	No	bailed <0.1 gal. FP
MW-12	01/27/00	630.60	633.72	617.10	608.10	16.00	1.30	17.30	13.17	617.43	Yes	bailed 0.2 gal. FP
MW-12	02/24/00	630.60	633.72	617.10	608.10	16.31	0.98	17.29	13.41	617.19	Yes	bailed 0.25 gal. FP
MW-12	03/31/00	630.60	633.72	617.10	608.10	16.37	0.87	17.24	13.45	617.15	Yes	bailed 0.25 gal. FP
MW-12	04/20/00	630.60	633.72	617.10	608.10	16.12	2.11	18.23	13.48	617.12	Yes	bailed .5 gal. FP
MW-12	04/26/00	630.60	633.72	617.10	608.10	16.40	0.83	17.23	13.47	617.13	Yes	bailed .5 gal. FP
MW-12	05/31/00	630.60	633.72	617.10	608.10	16.49	0.56	17.05	13.50	617.10	Yes	bailed .125 gal. FP
MW-12	06/29/00	630.60	633.72	617.10	608.10	16.27	0.77	17.04	13.32	617.28	Yes	bailed 0.25 gal. FP
MW-12	07/26/00	630.60	633.72	617.10	608.10	16.40	0.69	17.09	13.44	617.16	Yes	bailed <0.1 gal. FP
MW-12	08/18/00	630.60	633.72	617.10	608.10	16.62	0.57	17.19	13.63	616.97	No	bailed 0.25 gal. FP
MW-12	09/27/00	630.60	633.72	617.10	608.10	16.83	0.43	17.26	13.81	616.79	No	bailed 0.125 gal. FP
MW-12	10/11/00	630.60	633.72	617.10	608.10	16.74	0.36	17.10	13.70	616.90	No	bailed 0.15 gal. FP
MW-12	11/17/00	630.60	633.72	617.10	608.10	16.89	0.46	17.35	13.87	616.73	No	bailed 0.25 gal. FP
MW-12	12/12/00	630.60	633.72	617.10	608.10	16.84	0.37	17.21	13.80	616.80	No	bailed 0.25 gal. FP
MW-12	01/18/01	630.60	633.72	617.10	608.10	17.10	0.26	17.36	14.04	616.56	No	bailed 0.25 gal. FP
MW-12	05/23/01	630.60	633.72	617.10	608.10	16.30	0.48	16.78	13.29	617.31	Yes	no product bailed
MW-12	06/19/01	630.60	633.72	617.10	608.10	16.24	0.58	16.82	13.25	617.35	Yes	
MW-12	07/26/01	630.60	633.72	617.10	608.10	16.49	0.56	17.05	13.50	617.10	Yes	
MW-12	08/31/01	630.60	633.72	617.10	608.10	16.90	0.39	17.29	13.87	616.73	No	
MW-12	09/26/01	630.60	633.72	617.10	608.10	16.92	0.36	17.28	13.88	616.72	No	
MW-12	10/24/01	630.60	633.72	617.10	608.10	17.00	0.30	17.30	13.95	616.65	No	
MW-12	12/20/01	630.60	633.72	617.10	608.10	17.51	0.21	17.72	14.44	616.16	No	
MW-12	01/22/02	630.60	633.72	617.10	608.10	17.49	0.08	17.57	14.39	616.21	No	
MW-12	02/26/02	630.60	633.72	617.10	608.10	17.73	0.22	17.95	14.66	615.94	No	
MW-12	03/20/02	630.60	633.72	617.10	608.10	17.81	0.60	18.41	14.83	615.77	No	
MW-12	04/24/02	630.60	633.72	617.10	608.10	16.71	0.19	16.90	13.63	616.97	No	
MW-12	05/15/02	630.60	633.72	617.10	608.10	17.41	0.09	17.50	14.31	616.29	No	
MW-12	06/27/02	630.60	633.72	617.10	608.10	17.58	0.14	17.72	14.49	616.11	No	
MW-12	07/25/02	630.60	633.72	617.10	608.10	17.45	0.17	17.62	14.37	616.23	No	
MW-12	08/20/02	630.60	633.72	617.10	608.10	17.49	0.19	17.68	14.41	616.19	No	
MW-12	09/30/02	630.60	633.72	617.10	608.10	17.07	0.29	17.36	14.02	616.58	No	
MW-12	11/05/02	630.60	633.72	617.10	608.10	16.98	0.36	17.34	13.94	616.66	No	
MW-12	12/23/02	630.60	633.72	617.10	608.10	17.19	0.31	17.50	14.14	616.46	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-12	01/28/03	630.60	633.72	617.10	608.10	17.60	0.28	17.88	14.54	616.06	No	
MW-12	02/19/03	630.60	633.72	617.10	608.10	17.72	0.20	17.92	14.65	615.95	No	
MW-12	04/17/03	630.60	633.72	617.10	608.10	17.91	1.12	19.03	15.04	615.56	No	
MW-12	10/23/03	630.60	633.72	617.10	608.10	18.03	1.50	19.53	15.25	615.35	No	
MW-12	12/03/03	630.60	633.72	617.10	608.10	18.12	1.83	19.95	15.41	615.19	No	
MW-12	04/19/04	632.36	633.91	617.10	608.10	18.62	2.43	21.05	17.62	614.74	No	
MW-12	07/28/04	632.36	633.91	617.10	608.10	18.08	0.82	18.90	16.72	615.64	No	
MW-12	11/15/04	632.36	633.91	617.10	608.10	17.55	0.15	17.70	16.03	616.33	No	
MW-12	04/18/05	632.36	633.91	617.10	608.10	17.42	0.16	17.58	15.91	616.45	No	
MW-12	10/11/05	632.36	633.91	617.10	608.10	17.09	0.62	17.71	15.68	616.68	No	
MW-12	05/23/06	632.36	633.91	617.10	608.10	16.35	1.55	17.90	15.15	617.21	Yes	
MW-12	10/16/06	632.36	633.91	617.10	608.10	17.18	1.01	18.19	15.86	616.50	No	
MW-12	04/23/07	632.36	633.91	617.10	608.10	17.68	1.92	19.60	16.56	615.80	No	
MW-12	09/25/07	632.36	633.91	617.10	608.10	17.71	1.93	19.64	16.60	615.76	No	
MW-12	05/01/08	632.36	633.91	617.10	608.10	16.62	1.70	18.32	15.45	616.91	No	
MW-12	10/20/08	632.36	633.91	617.10	608.10	15.59	2.49	18.08	14.60	617.76	Yes	
MW-12	04/18/09	632.36	633.91	617.10	608.10	16.44	1.99	18.43	15.34	617.02	No	
MW-12	10/11/09	632.36	633.91	617.10	608.10	17.07	1.85	18.92	15.94	616.42	No	
MW-12	04/28/10	632.36	633.91	617.10	608.10	16.96	1.72	18.68	15.80	616.56	No	
MW-12	10/25/10	632.36	633.91	617.10	608.10	15.30	2.92	18.22	14.41	617.95	Yes	
MW-12	04/25/11	632.36	633.91	617.10	608.10	16.50	2.37	18.87	15.49	616.87	No	
MW-12	10/10/11	632.36	633.91	617.10	608.10	16.12	2.57	18.69	15.15	617.21	Yes	
MW-12	01/04/12	632.36	633.91	617.10	608.10	17.05	2.24	19.29	16.01	616.35	No	
MW-12	04/16/12	632.36	633.91	617.10	608.10	17.61	1.34	18.95	16.36	616.00	No	
MW-12	06/26/12	632.36	633.91	617.10	608.10	15.35	3.07	18.42	14.49	617.87	Yes	
MW-12	07/12/12	632.36	633.91	617.10	608.10	15.95	2.64	18.59	15.00	617.36	Yes	Spill Buddy Before Reading
MW-12	07/12/12	632.36	633.91	617.10	608.10	16.62	0.36	16.98	15.15	617.21	Yes	Spill Buddy After Reading
MW-12	07/26/12	632.36	633.91	617.10	608.10	16.28	2.52	18.80	15.30	617.06	No	Spill Buddy Before Reading
MW-12	07/26/12	632.36	633.91	617.10	608.10	16.69	0.58	17.27	15.27	617.09	No	Spill Buddy After Reading
MW-12	08/09/12	632.36	633.91	617.10	608.10	16.67	1.72	18.39	15.51	616.85	No	Spill Buddy Before Reading
MW-12	08/09/12	632.36	633.91	617.10	608.10	17.00	0.40	17.40	15.54	616.82	No	Spill Buddy After Reading
MW-12	09/29/12	632.36	633.91	617.10	608.10	17.40	1.09	18.49	16.10	616.26	No	Spill Buddy Before Reading
MW-12	09/29/12	632.36	633.91	617.10	608.10	17.65	0.27	17.92	16.16	616.20	No	Spill Buddy After Reading
MW-12	09/30/12	632.36	633.91	617.10	608.10	17.38	0.98	18.36	16.05	616.31	No	
MW-12	11/21/12	632.36	633.91	617.10	608.10	17.78	0.82	18.60	16.42	615.94	No	
MW-12	12/17/12	632.36	633.91	617.10	608.10	17.96	0.67	18.63	16.56	615.80	No	
MW-12	05/05/13	632.36	633.91	617.10	608.10	18.23	0.59	18.82	16.81	615.55	No	
MW-12	10/03/13	632.36	633.91	617.10	608.10	18.02	0.74	18.76	16.64	615.72	No	
MW-13	03/23/88	634.40	636.48	618.80	609.80	NP	0.00	19.86	17.78	616.62	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-13	09/08/88	634.40	636.48	618.80	609.80	NP	0.00	20.07	17.99	616.41	No	
MW-13	09/20/88	634.40	636.48	618.80	609.80	NP	0.00	20.30	18.22	616.18	No	
MW-13	04/27/89	634.40	636.48	618.80	609.80	NP	0.00	20.19	18.11	616.29	No	
MW-13	05/18/89	634.40	636.48	618.80	609.80	NP	0.00	19.82	17.74	616.66	No	
MW-13	06/30/89	634.40	636.48	618.80	609.80	NP	0.00	18.57	16.49	617.91	No	
MW-13	07/12/89	634.40	636.48	618.80	609.80	NP	0.00	19.74	17.66	616.74	No	
MW-13	07/26/89	634.40	636.48	618.80	609.80	NP	0.00	19.67	17.59	616.81	No	
MW-13	07/27/89	634.40	636.48	618.80	609.80	NP	0.00	19.77	17.69	616.71	No	
MW-13	09/03/89	634.40	636.48	618.80	609.80	NP	0.00	19.93	17.85	616.55	No	
MW-13	11/16/89	634.40	636.48	618.80	609.80	NP	0.00	20.05	17.97	616.43	No	
MW-13	11/28/89	634.40	636.48	618.80	609.80	NP	0.00	20.27	18.19	616.21	No	
MW-13	06/01/90	634.40	636.48	618.80	609.80	NP	0.00	20.00	17.92	616.48	No	
MW-13	06/19/90	634.40	636.48	618.80	609.80	NP	0.00	19.95	17.87	616.53	No	
MW-13	06/27/90	634.40	636.48	618.80	609.80	NP	0.00	21.11	19.03	615.37	No	
MW-13	07/05/90	634.40	636.48	618.80	609.80	NP	0.00	20.38	18.30	616.10	No	
MW-13	07/13/90	634.40	636.48	618.80	609.80	NP	0.00	20.33	18.25	616.15	No	
MW-13	07/17/90	634.40	636.48	618.80	609.80	NP	0.00	20.75	18.67	615.73	No	
MW-13	07/25/90	634.40	636.48	618.80	609.80	NP	0.00	20.28	18.20	616.20	No	
MW-13	08/09/90	634.40	636.48	618.80	609.80	NP	0.00	20.13	18.05	616.35	No	
MW-13	08/14/90	634.40	636.48	618.80	609.80	NP	0.00	20.15	18.07	616.33	No	
MW-13	08/27/90	634.40	636.48	618.80	609.80	NP	0.00	19.90	17.82	616.58	No	
MW-13	09/06/90	634.40	636.48	618.80	609.80	NP	0.00	19.69	17.61	616.79	No	
MW-13	01/04/91	634.40	636.48	618.80	609.80	NP	0.00	19.45	17.37	617.03	No	
MW-13	01/30/91	634.40	636.48	618.80	609.80	NP	0.00	19.58	17.50	616.90	No	
MW-13	04/24/91	634.40	636.48	618.80	609.80	NP	0.00	20.11	18.03	616.37	No	
MW-13	07/09/91	634.40	636.48	618.80	609.80	NP	0.00	18.41	16.33	618.07	No	
MW-13	10/08/91	634.40	636.48	618.80	609.80	NP	0.00	17.07	14.99	619.41	Yes	
MW-13	01/07/92	634.40	636.48	618.80	609.80	NP	0.00	17.20	15.12	619.28	Yes	
MW-13	10/14/92	634.40	636.48	618.80	609.80	NP	0.00	16.88	14.80	619.60	Yes	
MW-13	01/29/94	634.40	636.48	618.80	609.80	NP	0.00	18.08	16.00	618.40	No	
MW-13	04/27/94	634.40	636.48	618.80	609.80	NP	0.00	18.19	16.11	618.29	No	
MW-13	07/21/94	634.40	636.48	618.80	609.80	NP	0.00	17.99	15.91	618.49	No	
MW-13	10/25/94	634.40	636.48	618.80	609.80	NP	0.00	17.33	15.25	619.15	Yes	
MW-13	10/27/94	634.40	636.48	618.80	609.80	NP	0.00	16.82	14.74	619.66	Yes	
MW-13	02/01/95	634.40	636.48	618.80	609.80	NP	0.00	18.51	16.43	617.97	No	
MW-13	04/04/95	634.40	636.48	618.80	609.80	NP	0.00	19.34	17.26	617.14	No	
MW-13	07/12/95	634.40	636.48	618.80	609.80	NP	0.00	18.21	16.13	618.27	No	
MW-13	11/13/95	634.40	636.48	618.80	609.80	NP	0.00	17.22	15.14	619.26	Yes	
MW-13	03/13/96	634.40	636.48	618.80	609.80	NP	0.00	18.68	16.60	617.80	No	
MW-13	10/08/96	634.40	636.48	618.80	609.80	NP	0.00	16.41	14.33	620.07	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-13	04/29/97	634.40	636.48	618.80	609.80	NP	0.00	15.85	13.77	620.63	Yes	
MW-13	11/03/98	634.40	636.48	618.80	609.80	NP	0.00	19.03	16.95	617.45	No	
MW-13	03/02/99	634.40	636.48	618.80	609.80	NP	0.00	19.02	16.94	617.46	No	
MW-13	04/26/00	634.40	636.48	618.80	609.80	NP	0.00	18.36	16.28	618.12	No	
MW-13	08/18/00	634.40	636.48	618.80	609.80	NP	0.00	18.35	16.27	618.13	No	
MW-13	11/05/02	634.40	636.48	618.80	609.80	NP	0.00	18.44	16.36	618.04	No	
MW-13	08/18/03											Abandoned
MW-14	09/08/88	634.90	636.47	617.90	607.90	20.75	4.35	25.10	20.16	614.74	No	
MW-14	09/20/88	634.90	636.47	617.90	607.90	20.67	6.23	26.90	20.51	614.39	No	
MW-14	04/27/89	634.90	636.47	617.90	607.90	20.68	6.75	27.43	20.63	614.27	No	
MW-14	05/18/89	634.90	636.47	617.90	607.90	20.21	5.14	25.35	19.80	615.10	No	
MW-14	06/30/89	634.90	636.47	617.90	607.90	19.5	5.28	24.78	19.12	615.78	No	
MW-14	07/12/89	634.90	636.47	617.90	607.90	19.93	5.30	25.23	19.56	615.34	No	
MW-14	07/26/89	634.90	636.47	617.90	607.90	19.9	4.78	24.68	19.41	615.49	No	
MW-14	07/27/89	634.90	636.47	617.90	607.90	20.25	7.58	27.83	20.39	614.51	No	
MW-14	09/03/89	634.90	636.47	617.90	607.90	20.65	7.03	27.68	20.67	614.23	No	
MW-14	11/16/89	634.90	636.47	617.90	607.90	20.59	6.79	27.38	20.55	614.35	No	
MW-14	11/29/89	634.90	636.47	617.90	607.90	20.4	4.90	25.30	19.94	614.96	No	
MW-14	12/01/89	634.90	636.47	617.90	607.90	20.6	4.24	24.84	19.99	614.91	No	
MW-14	12/02/89	634.90	636.47	617.90	607.90	20.67	3.85	24.52	19.97	614.93	No	
MW-14	05/04/90	634.90	636.47	617.90	607.90	21.17	5.25	26.42	20.79	614.11	No	
MW-14	06/01/90	634.90	636.47	617.90	607.90	20.9	5.00	25.90	20.46	614.44	No	
MW-14	06/19/90	634.90	636.47	617.90	607.90	20.78	4.42	25.20	20.21	614.69	No	
MW-14	06/27/90	634.90	636.47	617.90	607.90	20.88	5.53	26.41	20.56	614.34	No	
MW-14	07/05/90	634.90	636.47	617.90	607.90	21.17	4.99	26.16	20.73	614.17	No	
MW-14	07/13/90	634.90	636.47	617.90	607.90	20.88	5.62	26.50	20.58	614.32	No	
MW-14	07/17/90	634.90	636.47	617.90	607.90	20.75	5.90	26.65	20.51	614.39	No	
MW-14	07/25/90	634.90	636.47	617.90	607.90	20.87	6.91	27.78	20.86	614.04	No	
MW-14	08/09/90	634.90	636.47	617.90	607.90	20.83	6.27	27.10	20.68	614.22	No	
MW-14	08/27/90	634.90	636.47	617.90	607.90	20.82	5.83	26.65	20.57	614.33	No	
MW-14	09/06/90	634.90	636.47	617.90	607.90	20.68	4.47	25.15	20.12	614.78	No	
MW-14	01/04/91	634.90	636.47	617.90	607.90	20.11	4.76	24.87	19.62	615.28	No	
MW-14	01/30/91	634.90	636.47	617.90	607.90	20.25	5.52	25.77	19.93	614.97	No	
MW-14	04/24/91	634.90	636.47	617.90	607.90	20.78	3.27	24.05	19.95	614.95	No	
MW-14	06/06/91	634.90	636.47	617.90	607.90	19.82	1.70	21.52	18.63	616.27	No	
MW-14	07/09/91	634.90	636.47	617.90	607.90	18.91	1.37	20.28	17.65	617.25	No	
MW-14	08/06/91	634.90	636.47	617.90	607.90	18.02	1.22	19.24	16.73	618.17	Yes	
MW-14	09/04/91	634.90	636.47	617.90	607.90	18.00	1.34	19.34	16.73	618.17	Yes	
MW-14	10/08/91	634.90	636.47	617.90	607.90	17.12	1.30	18.42	15.84	619.06	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	11/08/91	634.90	636.47	617.90	607.90	17.79	1.35	19.14	16.52	618.38	Yes	
MW-14	12/03/91	634.90	636.47	617.90	607.90	16.05	1.25	17.30	14.76	620.14	Yes	
MW-14	01/07/92	634.90	636.47	617.90	607.90	17.57	1.27	18.84	16.29	618.61	Yes	
MW-14	02/04/92	634.90	636.47	617.90	607.90	18.30	1.20	19.50	17.00	617.90	No	
MW-14	03/03/92	634.90	636.47	617.90	607.90	18.70	1.38	20.08	17.44	617.46	No	
MW-14	09/24/92	634.90	636.47	617.90	607.90	16.89	1.20	18.09	15.59	619.31	Yes	
MW-14	10/14/92	634.90	636.47	617.90	607.90	17.83	1.31	19.14	16.56	618.34	Yes	
MW-14	06/25/93	634.90	636.47	617.90	607.90	14.65	1.82	16.47	13.49	621.41	Yes	
MW-14	10/28/93	634.90	636.47	617.90	607.90	18.20	1.82	20.02	17.04	617.86	No	
MW-14	01/29/94	634.90	636.47	617.90	607.90	18.89	1.80	20.69	17.73	617.17	No	
MW-14	04/27/94	634.90	636.47	617.90	607.90	18.60	5.07	23.67	18.18	616.72	No	
MW-14	07/21/94	634.90	636.47	617.90	607.90	17.20	2.18	19.38	16.12	618.78	Yes	
MW-14	10/25/94	634.90	636.47	617.90	607.90	17.91	2.10	20.01	16.81	618.09	Yes	
MW-14	11/02/94	634.90	636.47	617.90	607.90	15.58	3.02	18.60	14.69	620.21	Yes	
MW-14	02/01/95	634.90	636.47	617.90	607.90	19.79	1.71	21.50	18.61	616.29	No	
MW-14	04/04/95	634.90	636.47	617.90	607.90	19.98	2.52	22.50	18.98	615.92	No	
MW-14	07/12/95	634.90	636.47	617.90	607.90	19.01	1.23	20.24	17.72	617.18	No	
MW-14	11/14/95	634.90	636.47	617.90	607.90	17.59	0.66	18.25	16.17	618.73	Yes	
MW-14	03/13/96	634.90	636.47	617.90	607.90	19.70	1.70	21.40	18.51	616.39	No	
MW-14	10/08/96	634.90	636.47	617.90	607.90	16.50	1.43	17.93	15.25	619.65	Yes	
MW-14	04/29/97	634.90	636.47	617.90	607.90	15.45	1.40	16.85	14.20	620.70	Yes	
MW-14	06/10/97	634.90	636.47	617.90	607.90	17.18	0.27	17.45	15.67	619.23	Yes	FP bailed 5/22/97
MW-14	11/03/98	634.90	636.47	617.90	607.90	19.60	3.34	22.94	18.78	616.12	No	
MW-14	03/02/99	634.90	636.47	617.90	607.90	19.74	3.44	23.18	18.95	615.95	No	
MW-14	10/07/99	634.90	636.47	617.90	607.90	16.49	0.16	16.65	14.96	619.94	Yes	
MW-14	11/09/99	634.90	636.47	617.90	607.90	16.30	0.41	16.71	14.82	620.08	Yes	bailed <0.1 gal. FP
MW-14	12/21/99	634.90	636.47	617.90	607.90	18.25	0.05	18.30	16.69	618.21	Yes	
MW-14	01/27/00	634.90	636.47	617.90	607.90	19.10	0.01	19.11	17.53	617.37	No	
MW-14	02/24/00	634.90	636.47	617.90	607.90	17.70	2.31	20.01	16.65	618.25	Yes	bailed <0.1 gal. FP
MW-14	03/31/00	634.90	636.47	617.90	607.90	19.17	1.53	20.70	17.95	616.95	No	bailed 0.25 gal. FP
MW-14	04/20/00	634.90	636.47	617.90	607.90	19.00	1.38	20.38	17.74	617.16	No	bailed 0.25 gal. FP
MW-14	04/26/00	634.90	636.47	617.90	607.90	18.93	1.10	20.03	17.61	617.29	No	bailed 1 gal. FP
MW-14	05/31/00	634.90	636.47	617.90	607.90	19.07	0.13	19.20	17.53	617.37	No	bailed 0.125 gal. FP
MW-14	06/29/00	634.90	636.47	617.90	607.90	19.03	0.11	19.14	17.48	617.42	No	bailed 0.1 gal. FP
MW-14	07/26/00	634.90	636.47	617.90	607.90	19.19	0.05	19.24	17.63	617.27	No	
MW-14	08/18/00	634.90	636.47	617.90	607.90	19.56	0.07	19.63	18.01	616.89	No	bailed 0.125 gal. FP
MW-14	09/27/00	634.90	636.47	617.90	607.90	19.76	1.00	20.76	18.42	616.48	No	bailed 0.125 gal. FP
MW-14	10/11/00	634.90	636.47	617.90	607.90	19.97	1.16	21.13	18.66	616.24	No	bailed 0.75 gal. FP
MW-14	11/17/00	634.90	636.47	617.90	607.90	19.53	2.33	21.86	18.49	616.41	No	bailed 1.75 gal. FP
MW-14	12/12/00	634.90	636.47	617.90	607.90	19.50	0.97	20.47	18.15	616.75	No	bailed 1.25 gal. FP

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	01/18/01	634.90	636.47	617.90	607.90	19.76	0.99	20.75	18.41	616.49	No	bailed 2 gal. FP
MW-14	04/24/01	634.90	636.47	617.90	607.90	19.58	2.32	21.90	18.53	616.37	No	product abated using vactruck
MW-14	05/23/01	634.90	636.47	617.90	607.90	18.66	0.92	19.58	17.30	617.60	No	no product bailed
MW-14	06/19/01	634.90	636.47	617.90	607.90	18.49	0.88	19.37	17.12	617.78	No	
MW-14	07/26/01	634.90	636.47	617.90	607.90	19.13	0.90	20.03	17.76	617.14	No	
MW-14	08/31/01	634.90	636.47	617.90	607.90	19.51	0.89	20.40	18.14	616.76	No	
MW-14	09/26/01	634.90	636.47	617.90	607.90	19.71	1.08	20.79	18.38	616.52	No	
MW-14	10/24/01	634.90	636.47	617.90	607.90	19.69	1.46	21.15	18.45	616.45	No	
MW-14	12/20/01	634.90	636.47	617.90	607.90	19.90	2.74	22.64	18.95	615.95	No	
MW-14	01/22/02	634.90	636.47	617.90	607.90	20.39	2.84	23.23	19.46	615.44	No	
MW-14	02/26/02	634.90	636.47	617.90	607.90	20.27	3.74	24.01	19.54	615.36	No	
MW-14	03/20/02	634.90	636.47	617.90	607.90	20.50	3.52	24.02	19.73	615.17	No	
MW-14	04/24/02	634.90	636.47	617.90	607.90	19.78	2.88	22.66	18.86	616.04	No	
MW-14	05/15/02	634.90	636.47	617.90	607.90	19.48	2.42	21.90	18.46	616.44	No	
MW-14	06/27/02	634.90	636.47	617.90	607.90	19.63	1.64	21.27	18.43	616.47	No	
MW-14	07/25/02	634.90	636.47	617.90	607.90	19.69	0.76	20.45	18.29	616.61	No	
MW-14	08/20/02	634.90	636.47	617.90	607.90	19.43	0.85	20.28	18.05	616.85	No	
MW-14	09/30/02	634.90	636.47	617.90	607.90	19.00	0.68	19.68	17.58	617.32	No	
MW-14	11/05/02	634.90	636.47	617.90	607.90	18.71	0.67	19.38	17.29	617.61	No	
MW-14	12/23/02	634.90	636.47	617.90	607.90	19.72	0.68	20.40	18.30	616.60	No	
MW-14	01/28/03	634.90	636.47	617.90	607.90	20.40	0.53	20.93	18.95	615.95	No	
MW-14	02/19/03	634.90	636.47	617.90	607.90	20.38	2.17	22.55	19.30	615.60	No	
MW-14	04/17/03	634.90	636.47	617.90	607.90	20.63	3.57	24.20	19.87	615.03	No	
MW-14	05/15/03	634.90	636.47	617.90	607.90	20.69	3.17	23.86	19.84	615.06	No	
MW-14	06/10/03	634.90	636.47	617.90	607.90	20.51	2.03	22.54	19.40	615.50	No	
MW-14	10/23/03	634.90	636.47	617.90	607.90	20.85	2.43	23.28	19.83	615.07	No	
MW-14	12/03/03	634.90	636.47	617.90	607.90	20.92	2.88	23.80	20.00	614.90	No	
MW-14	04/19/04	635.05	636.38	617.90	607.90	21.35	3.73	25.08	20.86	614.19	No	
MW-14	07/28/04	635.05	636.38	617.90	607.90	20.63	0.94	21.57	19.51	615.54	No	
MW-14	11/15/04	635.05	636.38	617.90	607.90	19.63	0.30	19.93	18.37	616.68	No	
MW-14	04/18/05	635.05	636.38	617.90	607.90	20.37	1.05	21.42	19.28	615.77	No	
MW-14	09/09/05	635.05	636.38	617.90	607.90	19.83	0.91	20.74	18.71	616.34	No	
MW-14	10/11/05	635.05	636.38	617.90	607.90	19.51	0.88	20.39	18.38	616.67	No	
MW-14	05/23/06	635.05	636.38	617.90	607.90	18.54	1.28	19.82	17.50	617.55	No	
MW-14	10/16/06	635.05	636.38	617.90	607.90	19.88	2.33	22.21	19.08	615.97	No	
MW-14	04/23/07	635.05	636.38	617.90	607.90	20.59	3.39	23.98	20.03	615.02	No	
MW-14	09/25/07	635.05	636.38	617.90	607.90	20.48	3.84	24.32	20.02	615.03	No	
MW-14	05/01/08	635.05	636.38	617.90	607.90	19.63	1.01	20.64	18.53	616.52	No	
MW-14	10/20/08	635.05	636.38	617.90	607.90	18.02	1.05	19.07	16.93	618.12	Yes	
MW-14	04/18/09	635.05	636.38	617.90	607.90	19.11	1.05	20.16	18.02	617.03	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	08/04/09	635.05	636.38	617.90	607.90	19.73	1.05	20.78	18.64	616.41	No	
MW-14	08/05/09	635.05	636.38	617.90	607.90	20.48	0.20	20.68	19.20	615.85	No	
MW-14	08/13/09	635.05	636.38	617.90	607.90	19.98	0.13	20.11	18.68	616.37	No	
MW-14	08/18/09	635.05	636.38	617.90	607.90	19.91	0.10	20.01	18.60	616.45	No	
MW-14	08/26/09	635.05	636.38	617.90	607.90	19.51	0.09	19.60	18.20	616.85	No	
MW-14	09/03/09	635.05	636.38	617.90	607.90	19.30	0.10	19.40	17.99	617.06	No	
MW-14	09/08/09	635.05	636.38	617.90	607.90	19.38	0.09	19.47	18.07	616.98	No	
MW-14	09/14/09	635.05	636.38	617.90	607.90	19.44	0.08	19.52	18.13	616.92	No	
MW-14	10/11/09	635.05	636.38	617.90	607.90	20.06	0.15	20.21	18.76	616.29	No	
MW-14	10/15/09	635.05	636.38	617.90	607.90	20.06	0.15	20.21	18.76	616.29	No	
MW-14	04/28/10	635.05	636.38	617.90	607.90	19.92	1.13	21.05	18.85	616.20	No	
MW-14	10/25/10	635.05	636.38	617.90	607.90	17.67	1.05	18.72	16.58	618.47	Yes	
MW-14	04/25/11	635.05	636.38	617.90	607.90	18.89	1.07	19.96	17.80	617.25	No	
MW-14	08/04/11	635.05	636.38	617.90	607.90	17.19	1.03	18.22	16.09	618.96	Yes	
MW-14	09/14/11	635.05	636.38	617.90	607.90	18.45	0.14	18.59	17.15	617.90	No	
MW-14	09/23/11	635.05	636.38	617.90	607.90	18.56	0.15	18.71	17.26	617.79	No	
MW-14	09/29/11	635.05	636.38	617.90	607.90	18.50	0.22	18.72	17.22	617.83	No	
MW-14	10/07/11	635.05	636.38	617.90	607.90	18.58	0.14	18.72	17.28	617.77	No	
MW-14	10/10/11	635.05	636.38	617.90	607.90	18.79	0.10	18.89	17.48	617.57	No	
MW-14	10/21/11	635.05	636.38	617.90	607.90	18.99	0.14	19.13	17.69	617.36	No	
MW-14	10/27/11	635.05	636.38	617.90	607.90	19.13	0.16	19.29	17.84	617.21	No	
MW-14	11/04/11	635.05	636.38	617.90	607.90	19.34	0.15	19.49	18.04	617.01	No	
MW-14	11/09/11	635.05	636.38	617.90	607.90	19.23	0.15	19.38	17.93	617.12	No	
MW-14	11/18/11	635.05	636.38	617.90	607.90	19.40	0.15	19.55	18.10	616.95	No	
MW-14	11/22/11	635.05	636.38	617.90	607.90	19.52	0.17	19.69	18.23	616.82	No	
MW-14	12/01/11	635.05	636.38	617.90	607.90	19.91	0.17	20.08	18.62	616.43	No	
MW-14	01/04/12	635.05	636.38	617.90	607.90	20.04	1.08	21.12	18.95	616.10	No	
MW-14	02/16/12	635.05	636.38	617.90	607.90	20.35	2.70	23.05	19.63	615.42	No	
MW-14	03/13/12	635.05	636.38	617.90	607.90	20.32	3.42	23.74	19.76	615.29	No	
MW-14	04/03/12	635.05	636.38	617.90	607.90	20.41	4.01	24.42	19.99	615.06	No	Spill Buddy Before Reading
MW-14	04/03/12	635.05	636.38	617.90	607.90	21.90	1.40	23.30	20.89	614.16	No	Spill Buddy After Reading
MW-14	04/16/12	635.05	636.38	617.90	607.90	20.58	3.38	23.96	20.01	615.04	No	
MW-14	06/18/12	635.05	636.38	617.90	607.90	19.06	0.86	19.92	17.92	617.13	No	
MW-14	06/26/12	635.05	636.38	617.90	607.90	18.31	0.96	19.27	17.20	617.85	No	
MW-14	07/12/12	635.05	636.38	617.90	607.90	18.49	0.97	19.46	17.38	617.67	No	
MW-14	07/24/12	635.05	636.38	617.90	607.90	18.84	0.99	19.83	17.73	617.32	No	
MW-14	08/09/12	635.05	636.38	617.90	607.90	18.99	1.01	20.00	17.89	617.16	No	Spill Buddy Before Reading
MW-14	08/09/12	635.05	636.38	617.90	607.90	ND	0.00	19.30	17.97	617.08	No	Spill Buddy After Reading
MW-14	08/17/12	635.05	636.38	617.90	607.90	19.33	0.09	19.42	18.02	617.03	No	
MW-14	09/17/12	635.05	636.38	617.90	607.90	19.78	0.06	19.84	18.46	616.59	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	09/20/12	635.05	636.38	617.90	607.90	19.85	0.07	19.92	18.54	616.51	No	
MW-14	09/30/12	635.05	636.38	617.90	607.90	19.97	0.06	20.03	18.65	616.40	No	
MW-14	10/22/12	635.05	636.38	617.90	607.90	20.16	1.48	21.64	19.16	615.89	No	
MW-14	11/21/12	635.05	636.38	617.90	607.90	20.05	2.83	22.88	19.36	615.69	No	
MW-14	12/17/12	635.05	636.38	617.90	607.90	20.21	3.51	23.72	19.67	615.38	No	
MW-14	03/25/13	635.05	636.38	617.90	607.90	20.90	4.24	25.14	20.53	614.52	No	
MW-14	05/05/13	635.05	636.38	617.90	607.90	20.75	3.97	24.72	20.32	614.73	No	
MW-14	10/03/13	635.05	636.38	617.90	607.90	20.32	2.21	22.53	19.49	615.56	No	
MW-14	05/22/14	635.05	636.38	617.90	607.90	18.96	0.37	19.33	17.71	617.34	No	
MW-14	10/31/14	635.05	636.38	617.90	607.90	18.63	0.34	18.97	17.38	617.67	No	
MW-14	05/06/15	635.05	636.38	617.90	607.90	20.06	2.41	22.47	19.27	615.78	No	
MW-14	07/10/15	635.05	636.38	617.90	607.90	19.27	0.68	19.95	18.09	616.96	No	
MW-14	10/05/15	635.05	636.38	617.90	607.90	18.43	0.03	18.46	17.11	617.94	Yes	
MW-14	05/23/16	635.05	636.38	617.90	607.90	16.03	0.37	16.40	14.78	620.27	Yes	
MW-14	10/03/16	635.05	636.38	617.90	607.90	17.54	0.01	17.55	16.21	618.84	Yes	
MW-14	06/14/17	635.05	636.38	617.90	607.90	NP	0.00	16.22	14.89	620.16	Yes	
MW-14	06/21/17	635.05	636.38	617.90	607.90	NP	0.00	16.73	15.40	619.65	Yes	
MW-14	06/22/17	635.05	636.38	617.90	607.90	NP	0.00	16.55	15.22	619.83	Yes	
MW-14	06/23/17	635.05	636.38	617.90	607.90	16.65	0.01	16.66	15.32	619.73	Yes	
MW-14	05/23/18	635.05	636.38	617.90	607.90	NP	0.00	19.44	18.11	616.94	No	
MW-15S	09/08/88	630.10	632.73	615.10	605.10	NP	0.00	19.92	17.29	612.81	No	
MW-15S	09/20/88	630.10	632.73	615.10	605.10	NP	0.00	20.25	17.62	612.48	No	
MW-15S	04/27/89	630.10	632.73	615.10	605.10	NP	0.00	19.84	17.21	612.89	No	
MW-15S	05/18/89	630.10	632.73	615.10	605.10	NP	0.00	19.61	16.98	613.12	No	
MW-15S	06/30/89	630.10	632.73	615.10	605.10	NP	0.00	19.34	16.71	613.39	No	
MW-15S	07/12/89	630.10	632.73	615.10	605.10	NP	0.00	19.45	16.82	613.28	No	
MW-15S	07/26/89	630.10	632.73	615.10	605.10	NP	0.00	19.52	16.89	613.21	No	
MW-15S	07/27/89	630.10	632.73	615.10	605.10	NP	0.00	19.66	17.03	613.07	No	
MW-15S	09/03/89	630.10	632.73	615.10	605.10	NP	0.00	19.76	17.13	612.97	No	
MW-15S	11/16/89	630.10	632.73	615.10	605.10	NP	0.00	19.92	17.29	612.81	No	
MW-15S	11/28/89	630.10	632.73	615.10	605.10	NP	0.00	20.09	17.46	612.64	No	
MW-15S	06/01/90	630.10	632.73	615.10	605.10	NP	0.00	20.09	17.46	612.64	No	
MW-15S	06/19/90	630.10	632.73	615.10	605.10	NP	0.00	19.91	17.28	612.82	No	
MW-15S	06/27/90	630.10	632.73	615.10	605.10	NP	0.00	19.94	17.31	612.79	No	
MW-15S	07/05/90	630.10	632.73	615.10	605.10	NP	0.00	20.05	17.42	612.68	No	
MW-15S	07/13/90	630.10	632.73	615.10	605.10	NP	0.00	20.14	17.51	612.59	No	
MW-15S	07/17/90	630.10	632.73	615.10	605.10	NP	0.00	19.98	17.35	612.75	No	
MW-15S	07/25/90	630.10	632.73	615.10	605.10	NP	0.00	20.09	17.46	612.64	No	
MW-15S	08/09/90	630.10	632.73	615.10	605.10	NP	0.00	20.50	17.87	612.23	No	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-15S	08/14/90	630.10	632.73	615.10	605.10	NP	0.00	20.18	17.55	612.55	No	
MW-15S	01/04/91	630.10	632.73	615.10	605.10	NP	0.00	19.57	16.94	613.16	No	
MW-15S	01/30/91	630.10	632.73	615.10	605.10	NP	0.00	19.80	17.17	612.93	No	
MW-15S	04/24/91	630.10	632.73	615.10	605.10	NP	0.00	19.96	17.33	612.77	No	
MW-15S	07/09/91	630.10	632.73	615.10	605.10	NP	0.00	18.13	15.50	614.60	No	
MW-15S	10/08/91	630.10	632.73	615.10	605.10	NP	0.00	17.10	14.47	615.63	Yes	
MW-15S	01/07/92	630.10	632.73	615.10	605.10	NP	0.00	17.03	14.40	615.70	Yes	
MW-15S	10/14/92	630.10	632.73	615.10	605.10	NP	0.00	16.89	14.26	615.84	Yes	
MW-15S	06/25/93	630.10	632.73	615.10	605.10	NP	0.00	15.74	13.11	616.99	Yes	
MW-15S	10/28/93	630.10	632.73	615.10	605.10	NP	0.00	17.00	14.37	615.73	Yes	
MW-15S	01/29/94	630.10	632.73	615.10	605.10	NP	0.00	17.34	14.71	615.39	Yes	
MW-15S	04/27/94	630.10	632.73	615.10	605.10	NP	0.00	17.70	15.07	615.03	No	
MW-15S	06/14/94	630.10	632.73	615.10	605.10	NP	0.00	17.01	14.38	615.72	Yes	
MW-15S	07/21/94	630.10	632.73	615.10	605.10	NP	0.00	16.92	14.29	615.81	Yes	
MW-15S	08/30/94	630.10	632.73	615.10	605.10	NP	0.00	17.65	15.02	615.08	No	
MW-15S	10/25/94	630.10	632.73	615.10	605.10	NP	0.00	17.16	14.53	615.57	Yes	
MW-15S	10/27/94	630.10	632.73	615.10	605.10	NP	0.00	16.98	14.35	615.75	Yes	
MW-15S	02/01/95	630.10	632.73	615.10	605.10	NP	0.00	18.42	15.79	614.31	No	
MW-15S	04/04/95	630.10	632.73	615.10	605.10	NP	0.00	18.75	16.12	613.98	No	
MW-15S	07/12/95	630.10	632.73	615.10	605.10	NP	0.00	18.09	15.46	614.64	No	
MW-15S	11/13/95	630.10	632.73	615.10	605.10	NP	0.00	17.19	14.56	615.54	Yes	
MW-15S	03/13/96	630.10	632.73	615.10	605.10	NP	0.00	18.61	15.98	614.12	No	
MW-15S	04/22/96	630.10	632.73	615.10	605.10	NP	0.00	17.39	14.76	615.34	Yes	
MW-15S	10/08/96	630.10	632.73	615.10	605.10	NP	0.00	16.43	13.80	616.30	Yes	
MW-15S	04/29/97	630.10	632.73	615.10	605.10	NP	0.00	15.85	13.22	616.88	Yes	
MW-15S	11/03/98	630.10	632.73	615.10	605.10	NP	0.00	18.74	16.11	613.99	No	
MW-15S	03/02/99	630.10	632.73	615.10	605.10	NP	0.00	18.93	16.30	613.80	No	
MW-15S	04/26/00	630.10	632.73	615.10	605.10	NP	0.00	18.14	15.51	614.59	No	
MW-15S	10/10/00	630.10	632.73	615.10	605.10	NP	0.00	18.60	15.97	614.13	No	
MW-15S	10/23/01	630.10	632.73	615.10	605.10	NP	0.00	18.57	15.94	614.16	No	
MW-15S	04/23/02	630.10	632.73	615.10	605.10	NP	0.00	19.06	16.43	613.67	No	
MW-15S	11/05/02	630.10	632.73	615.10	605.10	NP	0.00	17.86	15.23	614.87	No	
MW-15S	04/17/03	630.10	632.73	615.10	605.10	NP	0.00	19.72	17.09	613.01	No	
MW-15S	10/20/03	630.10	632.73	615.10	605.10	NP	0.00	19.54	16.91	613.19	No	
MW-15S	04/19/04	632.01	632.44	615.10	605.10	NP	0.00	20.02	19.59	612.42	No	
MW-15S	11/16/04	632.01	632.44	615.10	605.10	NP	0.00	18.33	17.90	614.11	No	
MW-15S	04/18/05	632.01	632.44	615.10	605.10	NP	0.00	18.70	18.27	613.74	No	
MW-15S	10/11/05	632.01	632.44	615.10	605.10	NP	0.00	17.94	17.51	614.50	No	
MW-15S	05/23/06	632.01	632.44	615.10	605.10	NP	0.00	17.43	17.00	615.01	No	
MW-15S	10/16/06	632.01	632.44	615.10	605.10	NP	0.00	18.37	17.94	614.07	No	

Table 3
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MW-15S	04/23/07	632.01	632.44	615.10	605.10	NP	0.00	19.03	18.60	613.41	No	
MW-15S	09/25/07	632.01	634.52	615.10	605.10	NP	0.00	20.96	18.45	613.56	No	
MW-15S	05/01/08	632.01	634.52	615.10	605.10	NP	0.00	19.59	17.08	614.93	No	
MW-15S	10/20/08	632.01	634.52	615.10	605.10	NP	0.00	18.41	15.90	616.11	Yes	
MW-15S	04/18/09	632.01	634.52	615.10	605.10	NP	0.00	19.40	16.89	615.12	Yes	
MW-15S	10/11/09	632.01	634.52	615.10	605.10	NP	0.00	19.86	17.35	614.66	No	
MW-15S	04/28/10	632.01	634.52	615.10	605.10	NP	0.00	20.31	17.80	614.21	No	
MW-15S	10/25/10	632.01	634.52	615.10	605.10	NP	0.00	18.58	16.07	615.94	Yes	
MW-15S	04/25/11	632.01	634.52	615.10	605.10	NP	0.00	19.43	16.92	615.09	No	
MW-15S	10/10/11	632.01	634.52	615.10	605.10	NP	0.00	18.85	16.34	615.67	Yes	
MW-15S	01/04/12	632.01	634.52	615.10	605.10	NP	0.00	20.09	17.58	614.43	No	
MW-15S	04/16/12	632.01	634.52	615.10	605.10	NP	0.00	20.78	18.27	613.74	No	
MW-15S	06/26/12	632.01	634.52	615.10	605.10	NP	0.00	18.46	15.95	616.06	Yes	
MW-15S	09/30/12	632.01	634.52	615.10	605.10	NP	0.00	19.87	17.36	614.65	No	
MW-15S	12/17/12	632.01	634.52	615.10	605.10	NP	0.00	20.56	18.05	613.96	No	
MW-15S	03/25/13	632.01	634.52	615.10	605.10	NP	0.00	21.48	18.97	613.04	No	
MW-15S	05/05/13	632.01	634.52	615.10	605.10	NP	0.00	20.84	18.33	613.68	No	
MW-15S	10/03/13	632.01	634.52	615.10	605.10	NP	0.00	20.31	17.80	614.21	No	
MW-15D	06/14/94	630.00	632.81	577.81	574.81	NP	0.00	17.17	14.36	615.64	Yes	
MW-15D	07/21/94	630.00	632.81	577.81	574.81	NP	0.00	17.13	14.32	615.68	Yes	
MW-15D	08/30/94	630.00	632.81	577.81	574.81	NP	0.00	17.83	15.02	614.98	Yes	
MW-15D	10/25/94	630.00	632.81	577.81	574.81	NP	0.00	17.39	14.58	615.42	Yes	
MW-15D	10/27/94	630.00	632.81	577.81	574.81	NP	0.00	17.22	14.41	615.59	Yes	
MW-15D	02/01/95	630.00	632.81	577.81	574.81	NP	0.00	18.52	15.71	614.29	Yes	
MW-15D	04/04/95	630.00	632.81	577.81	574.81	NP	0.00	18.96	16.15	613.85	Yes	
MW-15D	07/12/95	630.00	632.81	577.81	574.81	NP	0.00	18.33	15.52	614.48	Yes	
MW-15D	11/13/95	630.00	632.81	577.81	574.81	NP	0.00	17.35	14.54	615.46	Yes	
MW-15D	03/13/96	630.00	632.81	577.81	574.81	NP	0.00	18.85	16.04	613.96	Yes	
MW-15D	04/22/96	630.00	632.81	577.81	574.81	NP	0.00	17.46	14.65	615.35	Yes	
MW-15D	10/08/96	630.00	632.81	577.81	574.81	NP	0.00	16.17	13.36	616.64	Yes	
MW-15D	04/29/97	630.00	632.81	577.81	574.81	NP	0.00	15.98	13.17	616.83	Yes	
MW-15D	11/03/98	630.00	632.81	577.81	574.81	NP	0.00	18.92	16.11	613.89	Yes	
MW-15D	03/02/99	630.00	632.81	577.81	574.81	NP	0.00	19.08	16.27	613.73	Yes	
MW-15D	04/26/00	630.00	632.81	577.81	574.81	NP	0.00	18.21	15.40	614.60	Yes	
MW-15D	10/10/00	630.00	632.81	577.81	574.81	NP	0.00	18.79	15.98	614.02	Yes	
MW-15D	10/23/01	630.00	632.81	577.81	574.81	NP	0.00	18.76	15.95	614.05	Yes	
MW-15D	04/23/02	630.00	632.81	577.81	574.81	NP	0.00	19.20	16.39	613.61	Yes	
MW-15D	11/05/02	630.00	632.81	577.81	574.81	NP	0.00	17.99	15.18	614.82	Yes	
MW-15D	04/17/03	630.00	632.81	577.81	574.81	NP	0.00	19.87	17.06	612.94	Yes	

Table 3
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Superior, Wisconsin

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MW-15D	10/20/03	630.00	632.81	577.81	574.81	NP	0.00	19.68	16.87	613.13	Yes	
MW-15D	04/19/04	632.28	632.55	577.81	574.81	NP	0.00	20.13	19.86	612.42	Yes	
MW-15D	11/16/04	632.28	632.55	577.81	574.81	NP	0.00	18.46	18.19	614.09	Yes	
MW-15D	04/18/05	632.28	632.55	577.81	574.81	NP	0.00	18.83	18.56	613.72	Yes	
MW-15D	10/11/05	632.28	632.55	577.81	574.81	NP	0.00	18.09	17.82	614.46	Yes	
MW-15D	05/23/06	632.28	632.55	577.81	574.81	NP	0.00	17.57	17.30	614.98	Yes	
MW-15D	10/16/06	632.28	632.55	577.81	574.81	NP	0.00	18.57	18.30	613.98	Yes	
MW-15D	04/23/07	632.28	632.55	577.81	574.81	NP	0.00	19.23	18.96	613.32	Yes	
MW-15D	09/25/07	632.28	634.55	577.81	574.81	NP	0.00	20.95	18.68	613.60	Yes	
MW-15D	05/01/08	632.28	634.55	577.81	574.81	NP	0.00	19.64	17.37	614.91	Yes	
MW-15D	10/20/08	632.28	634.55	577.81	574.81	NP	0.00	18.49	16.22	616.06	Yes	
MW-15D	04/18/09	632.28	634.55	577.81	574.81	NP	0.00	19.52	17.25	615.03	Yes	
MW-15D	10/11/09	632.28	634.55	577.81	574.81	NP	0.00	19.97	17.70	614.58	Yes	
MW-15D	04/28/10	632.28	634.55	577.81	574.81	NP	0.00	20.37	18.10	614.18	Yes	
MW-15D	10/25/10	632.28	634.55	577.81	574.81	NP	0.00	18.73	16.46	615.82	Yes	
MW-15D	04/25/11	632.28	634.55	577.81	574.81	NP	0.00	19.51	17.24	615.04	Yes	
MW-15D	10/10/11	632.28	634.55	577.81	574.81	NP	0.00	19.02	16.75	615.53	Yes	
MW-15D	01/04/12	632.28	634.55	577.81	574.81	NP	0.00	20.2	17.93	614.35	Yes	
MW-15D	04/16/12	632.28	634.55	577.81	574.81	NP	0.00	20.74	18.47	613.81	Yes	
MW-15D	06/26/12	632.28	634.55	577.81	574.81	NP	0.00	18.48	16.21	616.07	Yes	
MW-15D	09/30/12	632.28	634.55	577.81	574.81	NP	0.00	20.02	17.75	614.53	Yes	
MW-15D	12/17/12	632.28	634.55	577.81	574.81	NP	0.00	20.64	18.37	613.91	Yes	
MW-15D	03/25/13	632.28	634.55	577.81	574.81	NP	0.00	21.58	19.31	612.97	Yes	
MW-15D	05/05/13	632.28	634.55	577.81	574.81	NP	0.00	20.88	18.61	613.67	Yes	
MW-15D	10/03/13	632.28	634.55	577.81	574.81	NP	0.00	20.38	18.11	614.17	Yes	
MW-16	09/08/88	634.30	636.37	619.30	604.30	NP	0.00	22.60	20.53	613.77	No	
MW-16	09/20/88	634.30	636.37	619.30	604.30	NP	0.00	22.76	20.69	613.61	No	
MW-16	04/27/89	634.30	636.37	619.30	604.30	NP	0.00	22.44	20.37	613.93	No	
MW-16	05/18/89	634.30	636.37	619.30	604.30	NP	0.00	22.19	20.12	614.18	No	
MW-16	06/30/89	634.30	636.37	619.30	604.30	NP	0.00	21.91	19.84	614.46	No	
MW-16	07/12/89	634.30	636.37	619.30	604.30	NP	0.00	22.12	20.05	614.25	No	
MW-16	07/26/89	634.30	636.37	619.30	604.30	NP	0.00	22.38	20.31	613.99	No	
MW-16	07/27/89	634.30	636.37	619.30	604.30	NP	0.00	22.45	20.38	613.92	No	
MW-16	09/03/89	634.30	636.37	619.30	604.30	NP	0.00	22.59	20.52	613.78	No	
MW-16	11/16/89	634.30	636.37	619.30	604.30	NP	0.00	22.76	20.69	613.61	No	
MW-16	11/28/89	634.30	636.37	619.30	604.30	NP	0.00	22.81	20.74	613.56	No	
MW-16	06/01/90	634.30	636.37	619.30	604.30	NP	0.00	22.75	20.68	613.62	No	
MW-16	06/19/90	634.30	636.37	619.30	604.30	NP	0.00	22.57	20.50	613.80	No	
MW-16	06/27/90	634.30	636.37	619.30	604.30	NP	0.00	22.68	20.61	613.69	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	07/05/90	634.30	636.37	619.30	604.30	NP	0.00	22.83	20.76	613.54	No	
MW-16	07/13/90	634.30	636.37	619.30	604.30	NP	0.00	22.80	20.73	613.57	No	
MW-16	07/17/90	634.30	636.37	619.30	604.30	NP	0.00	22.80	20.73	613.57	No	
MW-16	07/25/90	634.30	636.37	619.30	604.30	NP	0.00	22.93	20.86	613.44	No	
MW-16	08/09/90	634.30	636.37	619.30	604.30	NP	0.00	22.90	20.83	613.47	No	product beads on probe
MW-16	08/14/90	634.30	636.37	619.30	604.30	NP	0.00	22.99	20.92	613.38	No	
MW-16	08/27/90	634.30	636.37	619.30	604.30	NP	0.00	22.68	20.61	613.69	No	
MW-16	09/06/90	634.30	636.37	619.30	604.30	NP	0.00	22.52	20.45	613.85	No	
MW-16	01/04/91	634.30	636.37	619.30	604.30	NP	0.00	22.33	20.26	614.04	No	
MW-16	01/30/91	634.30	636.37	619.30	604.30	NP	0.00	22.57	20.50	613.80	No	
MW-16	04/24/91	634.30	636.37	619.30	604.30	NP	0.00	22.46	20.39	613.91	No	
MW-16	06/06/91	634.30	636.37	619.30	604.30	NP	0.00	21.10	19.03	615.27	No	
MW-16	07/09/91	634.30	636.37	619.30	604.30	20.31	0.01	20.32	18.24	616.06	No	
MW-16	08/06/91	634.30	636.37	619.30	604.30	19.41	1.45	20.86	17.67	616.63	No	
MW-16	09/04/91	634.30	636.37	619.30	604.30	18.30	6.55	24.85	17.71	616.59	No	
MW-16	10/08/91	634.30	636.37	619.30	604.30	17.70	7.15	24.85	17.24	617.06	No	
MW-16	11/08/91	634.30	636.37	619.30	604.30	18.13	6.93	25.06	17.63	616.67	No	
MW-16	12/03/91	634.30	636.37	619.30	604.30	16.25	9.40	25.65	16.30	618.00	No	
MW-16	01/07/92	634.30	636.37	619.30	604.30	17.78	7.96	25.74	17.51	616.79	No	
MW-16	02/04/92	634.30	636.37	619.30	604.30	18.40	8.25	26.65	18.19	616.11	No	
MW-16	03/03/92	634.30	636.37	619.30	604.30	18.80	8.30	27.10	18.60	615.70	No	
MW-16	09/24/92	634.30	636.37	619.30	604.30	16.92	10.28	27.20	17.17	617.13	No	
MW-16	10/14/92	634.30	636.37	619.30	604.30	17.88	8.52	26.40	17.73	616.57	No	
MW-16	06/25/93	634.30	636.37	619.30	604.30	14.56	12.99	27.55	15.42	618.88	No	
MW-16	10/28/93	634.30	636.37	619.30	604.30	18.27	8.80	27.07	18.19	616.11	No	
MW-16	01/29/94	634.30	636.37	619.30	604.30	19.70	5.51	25.21	18.87	615.43	No	
MW-16	04/27/94	634.30	636.37	619.30	604.30	18.97	5.72	24.69	18.19	616.11	No	
MW-16	07/21/94	634.30	636.37	619.30	604.30	17.80	8.80	26.60	17.72	616.58	No	
MW-16	08/30/94	634.30	636.37	619.30	604.30	18.84	8.58	27.42	18.71	615.59	No	
MW-16	10/25/94	634.30	636.37	619.30	604.30	18.26	8.04	26.30	18.01	616.29	No	
MW-16	11/02/94	634.30	636.37	619.30	604.30	18.49	6.71	25.20	17.94	616.36	No	
MW-16	02/01/95	634.30	636.37	619.30	604.30	22.12	0.09	22.21	20.07	614.23	No	
MW-16	04/04/95	634.30	636.37	619.30	604.30	21.78	0.15	21.93	19.74	614.56	No	
MW-16	07/12/95	634.30	636.37	619.30	604.30	20.65	0.55	21.20	18.70	615.60	No	
MW-16	11/14/95	634.30	636.37	619.30	604.30	18.05	6.80	24.85	17.52	616.78	No	
MW-16	03/13/96	634.30	636.37	619.30	604.30	19.85	7.35	27.20	19.44	614.86	No	
MW-16	10/08/96	634.30	636.37	619.30	604.30	19.43	0.08	19.51	17.38	616.92	No	
MW-16	04/29/97	634.30	636.37	619.30	604.30	16.32	9.58	25.90	16.41	617.89	No	
MW-16	06/10/97	634.30	636.37	619.30	604.30	18.02	6.41	24.43	17.40	616.90	No	FP bailed 5/22/97
MW-16	11/03/98	634.30	636.37	619.30	604.30	19.70	9.25	28.95	19.72	614.58	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	09/27/00	634.30	634.92	619.30	604.30	19.35	8.84	28.19	20.73	613.57	No	bailed 2.5 gal. FP
MW-16	10/11/00	634.30	634.92	619.30	604.30	17.70	10.20	27.90	19.38	614.92	No	bailed 2.6 gal. FP
MW-16	11/17/00	634.30	634.92	619.30	604.30	17.84	7.42	25.26	18.90	615.40	No	bailed 2.5 gal. FP
MW-16	12/12/00	634.30	634.92	619.30	604.30	17.98	5.93	23.91	18.70	615.60	No	bailed 2.5 gal. FP
MW-16	01/18/01	634.30	634.92	619.30	604.30	17.85	5.76	23.61	18.53	615.77	No	bailed 2 gal. FP
MW-16	04/24/01	634.30	634.92	619.30	604.30	17.95	5.89	23.84	18.66	615.64	No	product abated using vactruck
MW-16	05/23/01	634.30	634.92	619.30	604.30	17.25	4.37	21.62	17.62	616.68	No	no product bailed
MW-16	06/19/01	635.30	634.92	619.30	604.30	17.02	5.64	22.66	18.67	616.63	No	
MW-16	07/26/01	634.30	634.92	619.30	604.30	17.49	7.56	25.05	18.58	615.72	No	
MW-16	08/31/01	635.30	634.92	619.30	604.30	17.81	7.84	25.65	19.96	615.34	No	
MW-16	09/26/01	636.30	634.92	619.30	604.30	17.64	9.99	27.63	21.28	615.02	No	
MW-16	10/24/01	635.30	634.92	619.30	604.30	17.77	9.51	27.28	20.30	615.00	No	
MW-16	12/20/01	635.30	634.92	619.30	604.30	18.09	8.23	26.32	20.33	614.97	No	
MW-16	01/22/02	635.30	634.92	619.30	604.30	18.16	9.78	27.94	20.75	614.55	No	
MW-16	02/26/02	635.30	634.92	619.30	604.30	18.43	9.97	28.40	21.06	614.24	No	
MW-16	03/20/02	635.30	634.92	619.30	604.30	18.57	9.97	28.54	21.20	614.10	No	
MW-16	04/24/02	635.30	634.92	619.30	604.30	18.16	8.77	26.93	20.52	614.78	No	
MW-16	05/15/02	635.30	634.92	619.30	604.30	17.86	7.09	24.95	19.84	615.46	No	
MW-16	06/27/02	635.30	634.92	619.30	604.30	17.95	6.86	24.81	19.88	615.42	No	
MW-16	07/25/02	635.30	634.92	619.30	604.30	18.00	6.87	24.87	19.93	615.37	No	
MW-16	08/20/02	635.30	634.92	619.30	604.30	17.84	6.75	24.59	19.74	615.56	No	
MW-16	09/30/02	635.30	634.92	619.30	604.30	17.60	6.57	24.17	19.46	615.84	No	
MW-16	11/05/02	635.30	634.92	619.30	604.30	17.33	5.86	23.19	19.03	616.27	No	
MW-16	12/23/02	635.30	634.92	619.30	604.30	17.78	8.28	26.06	20.03	615.27	No	
MW-16	01/28/03	635.30	634.92	619.30	604.30	18.03	9.62	27.65	20.58	614.72	No	
MW-16	02/19/03	635.30	634.92	619.30	604.30	18.22	10.15	28.37	20.89	614.41	No	
MW-16	04/17/03	635.30	634.92	619.30	604.30	18.64	10.26	28.90	21.34	613.96	No	
MW-16	05/15/03	635.30	634.92	619.30	604.30	18.74	8.61	27.35	21.06	614.24	No	
MW-16	06/10/03	635.30	634.92	619.30	604.30	18.50	7.91	26.41	20.67	614.63	No	
MW-16	10/23/03	635.30	634.92	619.30	604.30	18.78	9.46	28.24	21.30	614.00	No	
MW-16	12/03/03	635.30	634.92	619.30	604.30	18.91	9.46	28.37	21.43	613.87	No	
MW-16	04/19/04	633.67	634.42	619.30	604.30	19.60	6.26	25.86	20.26	613.41	No	
MW-16	07/28/04	633.67	634.42	619.30	604.30	18.77	5.84	24.61	19.34	614.33	No	
MW-16	11/15/04	633.67	634.42	619.30	604.30	18.11	4.59	22.70	18.40	615.27	No	
MW-16	04/18/05	633.67	634.42	619.30	604.30	18.25	6.23	24.48	18.91	614.76	No	
MW-16	09/09/05	633.67	634.42	619.30	604.30	20.98	6.73	27.71	21.75	611.92	No	
MW-16	10/11/05	633.67	634.42	619.30	604.30	20.43	6.30	26.73	21.10	612.57	No	
MW-16	05/23/06	633.67	634.42	619.30	604.30	20.35	4.00	24.35	20.50	613.17	No	
MW-16	10/16/06	633.67	634.42	619.30	604.30	21.02	7.14	28.16	21.88	611.79	No	
MW-16	04/23/07	633.67	634.42	619.30	604.30	21.53	7.35	28.88	22.44	611.23	No	

Table 3
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Superior, Wisconsin

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MW-16	09/25/07	633.67	637.46	619.30	604.30	22.37	6.88	29.25	20.13	613.54	No	
MW-16	05/01/08	633.67	637.46	619.30	604.30	20.81	3.78	24.59	17.87	615.80	No	
MW-16	10/20/08	633.67	637.46	619.30	604.30	19.57	3.68	23.25	16.61	617.06	No	
MW-16	04/18/09	633.67	637.46	619.30	604.30	20.26	5.04	25.30	17.61	616.06	No	
MW-16	08/04/09	633.67	637.46	619.30	604.30	20.57	6.30	26.87	18.20	615.47	No	
MW-16	08/05/09	633.67	637.46	619.30	604.30	20.79	6.04	26.83	18.36	615.31	No	
MW-16	08/13/09	633.67	637.46	619.30	604.30	20.53	6.23	26.76	18.15	615.52	No	
MW-16	08/18/09	633.67	637.46	619.30	604.30	20.65	6.16	26.81	18.25	615.42	No	
MW-16	08/26/09	633.67	637.46	619.30	604.30	20.51	5.42	25.93	17.94	615.73	No	
MW-16	09/03/09	633.67	637.46	619.30	604.30	20.31	5.79	26.10	17.83	615.84	No	
MW-16	09/08/09	633.67	637.46	619.30	604.30	20.29	5.79	26.08	17.81	615.86	No	
MW-16	09/14/09	633.67	637.46	619.30	604.30	20.31	6.29	26.60	17.94	615.73	No	
MW-16	10/11/09	633.67	637.46	619.30	604.30	20.69	6.59	27.28	18.39	615.28	No	
MW-16	10/15/09	633.67	637.46	619.30	604.30	20.69	6.59	27.28	18.39	615.28	No	
MW-16	04/28/10	633.67	637.46	619.30	604.30	20.73	7.26	27.99	18.58	615.09	No	
MW-16	10/25/10	633.67	637.46	619.30	604.30	18.94	7.01	25.95	16.73	616.94	No	
MW-16	04/25/11	633.67	637.46	619.30	604.30	20.01	6.04	26.05	17.58	616.09	No	
MW-16	08/04/11	633.67	637.46	619.30	604.30	18.31	6.08	24.39	15.89	617.78	No	
MW-16	09/14/11	633.67	637.46	619.30	604.30	19.32	6.16	25.48	16.92	616.75	No	
MW-16	09/23/11	633.67	637.46	619.30	604.30	19.52	6.18	25.70	17.13	616.54	No	
MW-16	09/29/11	633.67	637.46	619.30	604.30	19.53	6.37	25.90	17.18	616.49	No	
MW-16	10/07/11	633.67	637.46	619.30	604.30	19.71	6.32	26.03	17.35	616.32	No	
MW-16	10/10/11	633.67	637.46	619.30	604.30	19.82	6.30	26.12	17.45	616.22	No	
MW-16	10/21/11	633.67	637.46	619.30	604.30	20.05	6.27	26.32	17.68	615.99	No	
MW-16	10/27/11	633.67	637.46	619.30	604.30	20.15	6.25	26.40	17.77	615.90	No	
MW-16	11/04/11	633.67	637.46	619.30	604.30	20.29	6.25	26.54	17.91	615.76	No	
MW-16	11/09/11	633.67	637.46	619.30	604.30	20.31	6.27	26.58	17.94	615.73	No	
MW-16	11/18/11	633.67	637.46	619.30	604.30	20.46	6.22	26.68	18.07	615.60	No	
MW-16	11/22/11	633.67	637.46	619.30	604.30	20.59	6.18	26.77	18.20	615.47	No	
MW-16	12/01/11	633.67	637.46	619.30	604.30	20.83	6.13	26.96	18.42	615.25	No	
MW-16	01/04/12	633.67	637.46	619.30	604.30	21.17	6.28	27.45	18.80	614.87	No	
MW-16	02/16/12	633.67	637.46	619.30	604.30	21.64	6.88	28.52	19.40	614.27	No	
MW-16	03/13/12	633.67	637.46	619.30	604.30	21.64	8.08	29.72	19.68	613.99	No	
MW-16	04/03/12	633.67	637.46	619.30	604.30	21.34	8.29	29.63	19.42	614.25	No	Spill Buddy Probe could not go past approximately 12-15 feet in well, could not recover with Spill Buddy
MW-16	04/16/12	633.67	637.46	619.30	604.30	21.15	7.80	28.95	19.12	614.55	No	
MW-16	06/26/12	633.67	637.46	619.30	604.30	19.89	1.94	21.83	16.54	617.13	No	
MW-16	07/12/12	633.67	637.46	619.30	604.30	19.95	3.91	23.86	17.04	616.63	No	Gauge before hand bail
MW-16	07/12/12	633.67	637.46	619.30	604.30	21.81	0.14	21.95	18.05	615.62	No	Gauge after hand bail
MW-16	07/24/12	633.67	637.46	619.30	604.30	19.90	5.04	24.94	17.25	616.42	No	
MW-16	08/17/12	633.67	637.46	619.30	604.30	20.14	5.53	25.67	17.60	616.07	No	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	09/17/12	633.67	637.46	619.30	604.30	20.45	7.09	27.54	18.26	615.41	No	
MW-16	09/20/12	633.67	637.46	619.30	604.30	20.44	7.15	27.59	18.26	615.41	No	
MW-16	09/30/12	633.67	637.46	619.30	604.30	21.67	6.28	27.95	19.30	614.37	No	
MW-16	10/22/12	633.67	637.46	619.30	604.30	21.03	7.13	28.16	18.85	614.82	No	
MW-16	11/21/12	633.67	637.46	619.30	604.30	21.15	6.94	28.09	18.93	614.74	No	
MW-16	12/17/12	633.67	637.46	619.30	604.30	21.37	6.92	28.29	19.14	614.53	No	
MW-16	03/25/13	633.67	637.46	619.30	604.30	21.71	9.54	31.25	20.07	613.60	No	
MW-16	04/03/13	633.67	637.46	619.30	604.30	21.37	9.72	31.09	19.78	613.89	No	Spill Buddy Before Reading
MW-16	04/03/13	633.67	637.46	619.30	604.30	24.29	0.58	24.87	20.63	613.04	No	Spill Buddy After Reading
MW-16	05/05/13	633.67	637.46	619.30	604.30	21.65	6.45	28.10	19.32	614.35	No	
MW-16	10/03/13	633.67	637.46	619.30	604.30	21.24	5.87	27.11	18.78	614.89	No	
MW-16	05/22/14	633.67	637.46	619.30	604.30	20.30	2.09	22.39	16.98	616.69	No	
MW-16	10/31/14	633.67	637.46	619.30	604.30	19.49	5.64	25.13	16.97	616.70	No	
MW-16	05/06/15	633.67	637.46	619.30	604.30	20.89	6.75	27.64	18.62	615.05	No	
MW-16	07/10/15	633.67	637.46	619.30	604.30	20.26	4.21	24.47	17.42	616.25	No	
MW-16	10/05/15	633.67	637.46	619.30	604.30	19.50	4.12	23.62	16.64	617.03	No	
MW-16	05/23/16	633.67	637.46	619.30	604.30	16.49	11.46	27.95	15.29	618.38	No	
MW-16	10/03/16	633.67	637.46	619.30	604.30	18.27	7.27	25.54	16.12	617.55	No	
MW-16	06/14/17	633.67	637.46	619.30	604.30	16.96	10.44	27.40	15.53	618.14	No	
MW-16	06/21/17	633.67	637.46	619.30	604.30	17.08	10.17	27.25	15.59	618.08	No	
MW-16	06/22/17	633.67	637.46	619.30	604.30	18.75	1.48	20.23	15.29	618.38	No	
MW-16	06/23/17	633.67	637.46	619.30	604.30	18.87	1.33	20.20	15.38	618.29	No	
MW-16	10/26/17	633.67	637.46	619.30	604.30	14.68	14.77	29.45	14.23	619.44	Yes	
MW-16	05/15/18	633.67	637.46	619.30	604.30	20.23	5.53	25.76	17.69	615.98	No	
MW-16	05/23/18	633.67	637.46	619.30	604.30	20.13	5.65	25.78	17.62	616.05	No	
MW-18	09/08/88	634.60	636.91	619.60	609.60	NP	0.00	20.90	18.59	616.01	No	
MW-18	09/20/88	634.60	636.91	619.60	609.60	NP	0.00	21.20	18.89	615.71	No	
MW-18	04/27/89	634.60	636.91	619.60	609.60	NP	0.00	20.93	18.62	615.98	No	
MW-18	05/18/89	634.60	636.91	619.60	609.60	NP	0.00	20.56	18.25	616.35	No	
MW-18	06/30/89	634.60	636.91	619.60	609.60	NP	0.00	20.27	17.96	616.64	No	
MW-18	07/12/89	634.60	636.91	619.60	609.60	NP	0.00	20.43	18.12	616.48	No	
MW-18	07/26/89	634.60	636.91	619.60	609.60	NP	0.00	20.32	18.01	616.59	No	
MW-18	07/27/89	634.60	636.91	619.60	609.60	NP	0.00	20.48	18.17	616.43	No	
MW-18	09/03/89	634.60	636.91	619.60	609.60	NP	0.00	20.64	18.33	616.27	No	
MW-18	11/16/89	634.60	636.91	619.60	609.60	NP	0.00	20.57	18.26	616.34	No	
MW-18	11/28/89	634.60	636.91	619.60	609.60	NP	0.00	20.81	18.50	616.10	No	
MW-18	06/01/90	634.60	636.91	619.60	609.60	NP	0.00	20.75	18.44	616.16	No	
MW-18	06/19/90	634.60	636.91	619.60	609.60	NP	0.00	20.70	18.39	616.21	No	
MW-18	06/27/90	634.60	636.91	619.60	609.60	NP	0.00	20.89	18.58	616.02	No	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-18	07/05/90	634.60	636.91	619.60	609.60	NP	0.00	21.11	18.80	615.80	No	
MW-18	07/13/90	634.60	636.91	619.60	609.60	NP	0.00	20.98	18.67	615.93	No	
MW-18	07/17/90	634.60	636.91	619.60	609.60	NP	0.00	20.71	18.40	616.20	No	
MW-18	07/25/90	634.60	636.91	619.60	609.60	NP	0.00	20.95	18.64	615.96	No	
MW-18	08/09/90	634.60	636.91	619.60	609.60	NP	0.00	20.96	18.65	615.95	No	
MW-18	08/14/90	634.60	636.91	619.60	609.60	NP	0.00	20.90	18.59	616.01	No	
MW-18	08/27/90	634.60	636.91	619.60	609.60	NP	0.00	20.75	18.44	616.16	No	
MW-18	01/04/91	634.60	636.91	619.60	609.60	NP	0.00	20.16	17.85	616.75	No	
MW-18	01/30/91	634.60	636.91	619.60	609.60	NP	0.00	20.25	17.94	616.66	No	
MW-18	04/24/91	634.60	636.91	619.60	609.60	NP	0.00	20.82	18.51	616.09	No	
MW-18	07/09/91	634.60	636.91	619.60	609.60	NP	0.00	19.05	16.74	617.86	No	
MW-18	10/08/91	634.60	636.91	619.60	609.60	NP	0.00	17.57	15.26	619.34	No	
MW-18	01/07/92	634.60	636.91	619.60	609.60	NP	0.00	17.76	15.45	619.15	No	
MW-18	10/14/92	634.60	636.91	619.60	609.60	NP	0.00	17.60	15.29	619.31	No	
MW-18	01/29/94	634.60	636.91	619.60	609.60	NP	0.00	18.76	16.45	618.15	No	
MW-18	04/27/94	634.60	636.91	619.60	609.60	NP	0.00	18.90	16.59	618.01	No	
MW-18	07/21/94	634.60	636.91	619.60	609.60	NP	0.00	17.52	15.21	619.39	No	
MW-18	10/25/94	634.60	636.91	619.60	609.60	NP	0.00	18.00	15.69	618.91	No	
MW-18	10/27/94	634.60	636.91	619.60	609.60	NP	0.00	17.44	15.13	619.47	No	
MW-18	02/01/95	634.60	636.91	619.60	609.60	NP	0.00	19.22	16.91	617.69	No	
MW-18	04/04/95	634.60	636.91	619.60	609.60	NP	0.00	19.94	17.63	616.97	No	
MW-18	07/12/95	634.60	636.91	619.60	609.60	NP	0.00	18.90	16.59	618.01	No	
MW-18	11/13/95	634.60	636.91	619.60	609.60	NP	0.00	17.71	15.40	619.20	No	
MW-18	03/13/96	634.60	636.91	619.60	609.60	NP	0.00	19.33	17.02	617.58	No	
MW-18	10/08/96	634.60	636.91	619.60	609.60	NP	0.00	16.89	14.58	620.02	Yes	
MW-18	04/29/97	634.60	636.91	619.60	609.60	NP	0.00	16.25	13.94	620.66	Yes	
MW-18	11/03/98	634.60	636.91	619.60	609.60	NP	0.00	19.75	17.44	617.16	No	
MW-18	03/02/99	634.60	636.91	619.60	609.60	NP	0.00	19.76	17.45	617.15	No	
MW-18	04/26/00	634.60	636.91	619.60	609.60	NP	0.00	18.92	16.61	617.99	No	
MW-18	08/18/00	634.60	636.91	619.60	609.60	NP	0.00	19.40	17.09	617.51	No	
MW-18	11/05/02	634.60	636.91	619.60	609.60	NP	0.00	19.01	16.70	617.90	No	
MW-18	08/18/03						Abandoned					
MW-19	06/30/89	632.80	635.42	611.10	601.10	NP	0.00	20.95	18.33	614.47	Yes	
MW-19	07/12/89	632.80	635.42	611.10	601.10	NP	0.00	22.86	20.24	612.56	Yes	
MW-19	07/26/89	632.80	635.42	611.10	601.10	NP	0.00	23.09	20.47	612.33	Yes	
MW-19	07/27/89	632.80	635.42	611.10	601.10	NP	0.00	23.17	20.55	612.25	Yes	
MW-19	09/03/89	632.80	635.42	611.10	601.10	NP	0.00	23.13	20.51	612.29	Yes	
MW-19	11/16/89	632.80	635.42	611.10	601.10	NP	0.00	23.42	20.80	612.00	Yes	
MW-19	11/28/89	632.80	635.42	611.10	601.10	NP	0.00	23.72	21.10	611.70	Yes	

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MW-19	06/19/90	632.80	635.42	611.10	601.10	NP	0.00	23.20	20.58	612.22	Yes	
MW-19	06/27/90	632.80	635.42	611.10	601.10	NP	0.00	23.61	20.99	611.81	Yes	
MW-19	07/05/90	632.80	635.42	611.10	601.10	NP	0.00	23.86	21.24	611.56	Yes	
MW-19	07/13/90	632.80	635.42	611.10	601.10	NP	0.00	23.88	21.26	611.54	Yes	
MW-19	07/17/90	632.80	635.42	611.10	601.10	NP	0.00	23.72	21.10	611.70	Yes	
MW-19	07/25/90	632.80	635.42	611.10	601.10	NP	0.00	23.38	20.76	612.04	Yes	
MW-19	08/09/90	632.80	635.42	611.10	601.10	NP	0.00	23.85	21.23	611.57	Yes	
MW-19	08/14/90	632.80	635.42	611.10	601.10	NP	0.00	23.93	21.31	611.49	Yes	
MW-19	08/27/90	632.80	635.42	611.10	601.10	NP	0.00	23.70	21.08	611.72	Yes	
MW-19	09/06/90	632.80	635.42	611.10	601.10	NP	0.00	23.34	20.72	612.08	Yes	
MW-19	01/04/91	632.80	635.42	611.10	601.10	NP	0.00	23.42	20.80	612.00	Yes	
MW-19	01/30/91	632.80	635.42	611.10	601.10	NP	0.00	23.64	21.02	611.78	Yes	
MW-19	04/24/91	632.80	635.42	611.10	601.10	NP	0.00	23.47	20.85	611.95	Yes	
MW-19	07/09/91	632.80	635.42	611.10	601.10	NP	0.00	21.72	19.10	613.70	Yes	
MW-19	10/08/91	632.80	635.42	611.10	601.10	NP	0.00	20.84	18.22	614.58	Yes	
MW-19	01/07/92	632.80	635.42	611.10	601.10	NP	0.00	20.99	18.37	614.43	Yes	
MW-19	10/14/92	632.80	635.42	611.10	601.10	NP	0.00	20.98	18.36	614.44	Yes	
MW-19	06/25/93	632.80	635.42	611.10	601.10	NP	0.00	19.56	16.94	615.86	Yes	
MW-19	10/28/93	632.80	635.42	611.10	601.10	NP	0.00	21.12	18.50	614.30	Yes	
MW-19	01/29/94	632.80	635.42	611.10	601.10	NP	0.00	21.82	19.20	613.60	Yes	
MW-19	04/27/94	632.80	635.42	611.10	601.10	NP	0.00	21.56	18.94	613.86	Yes	
MW-19	07/21/94	632.80	635.42	611.10	601.10	NP	0.00	20.61	17.99	614.81	Yes	
MW-19	10/25/94	632.80	635.42	611.10	601.10	NP	0.00	20.91	18.29	614.51	Yes	
MW-19	10/28/94	632.80	635.42	611.10	601.10	NP	0.00	20.58	17.96	614.84	Yes	
MW-19	02/01/95	632.80	635.42	611.10	601.10	NP	0.00	22.23	19.61	613.19	Yes	
MW-19	04/04/95	632.80	635.42	611.10	601.10	NP	0.00	22.40	19.78	613.02	Yes	
MW-19	07/12/95	632.80	635.42	611.10	601.10	NP	0.00	29.61	26.99	605.81	No	
MW-19	11/13/95	632.80	635.42	611.10	601.10	NP	0.00	20.72	18.10	614.70	Yes	
MW-19	03/13/96	632.80	635.42	611.10	601.10	NP	0.00	23.25	20.63	612.17	Yes	
MW-19	04/22/96	632.80	635.42	611.10	601.10	NP	0.00	20.85	18.23	614.57	Yes	
MW-19	10/08/96	632.80	635.42	611.10	601.10	NP	0.00	20.02	17.40	615.40	Yes	
MW-19	04/29/97	632.80	635.42	611.10	601.10	NP	0.00	19.40	16.78	616.02	Yes	
MW-19	11/03/98	632.80	635.42	611.10	601.10	NP	0.00	22.31	19.69	613.11	Yes	
MW-19	03/02/99	632.80	635.42	611.10	601.10	NP	0.00	22.67	20.05	612.75	Yes	
MW-19	03/02/99	632.80	635.42	611.10	601.10	NP	0.00	21.68	19.06	613.74	Yes	
MW-19	10/10/00	632.80	635.42	611.10	601.10	NP	0.00	22.27	19.65	613.15	Yes	
MW-19	04/24/01	632.80	635.42	611.10	601.10	NP	0.00	21.64	19.02	613.78	Yes	
MW-19	10/23/01	632.80	635.42	611.10	601.10	NP	0.00	22.26	19.64	613.16	Yes	
MW-19	04/23/02	632.80	635.42	611.10	601.10	NP	0.00	22.54	19.92	612.88	Yes	
MW-19	11/05/02	632.80	635.42	611.10	601.10	NP	0.00	21.27	18.65	614.15	Yes	

Table 3
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MW-19	04/17/03	632.80	635.42	611.10	601.10	NP	0.00	23.33	20.71	612.09	Yes	
MW-19	05/15/03	632.80	635.42	611.10	601.10	NM	NM	NM	NM	NM		
MW-19	10/21/03	MW-19 abandoned and replaced as MW-19 due to city road construction										
MW-19	04/19/04	633.62	636.61			NP	0.00	24.61	21.62	612.00	NA	
MW-19	11/18/04	633.62	636.61			NP	0.00	22.95	19.96	613.66	NA	
MW-19	04/18/05	633.62	636.61			NP	0.00	23.12	20.13	613.49	NA	
MW-19	09/07/05	MW-19 again abandoned and replaced as MW-19R due to reconstruction of nearby retention basin by city										
MW-19R	10/11/05	630.50	633.05	11 bgs	26 bgs	NP	0.00	18.47	15.92	614.58	NA	
MW-19R	05/23/06	630.50	633.05	need new survey		17.70	1.72	19.42	15.54	614.96	NA	
MW-19R	10/16/06	630.50	633.05	need new survey		19.19	2.07	21.26	17.11	613.39	NA	
MW-19R	04/23/07	630.50	633.05	need new survey		19.53	1.12	20.65	17.23	613.27	NA	
MW-19R	09/25/07	630.50	633.05	need new survey		19.60	2.53	22.13	17.62	612.88	NA	
MW-19R	05/01/08	630.50	633.05	need new survey		18.02	0.50	18.52	15.58	614.92	NA	
MW-19R	10/20/08	630.50	633.05	need new survey		17.21	0.68	17.89	14.81	615.69	NA	
MW-19R	04/18/09	630.50	633.05	need new survey		18.12	0.49	18.61	15.68	614.82	NA	
MW-19R	10/11/09	630.50	633.05	need new survey		18.57	1.67	20.24	16.40	614.10	NA	
MW-19R	04/28/10	630.50	633.05	need new survey		18.86	1.30	20.16	16.60	613.90	NA	
MW-19R	10/25/10	630.50	633.05	need new survey		17.41	1.46	18.87	15.19	615.31	NA	
MW-19R	04/25/11	630.50	633.05	need new survey		18.18	0.89	19.07	15.83	614.67	NA	
MW-19R	10/10/11	630.50	633.05	need new survey		17.86	2.11	19.97	15.79	614.71	NA	
MW-19R	01/04/12	630.50	633.05	need new survey		19.14	2.25	21.39	17.10	613.40	NA	
MW-19R	04/05/12	630.50	633.05	need new survey		19.57	2.62	22.19	17.61	612.89	NA	Spill Buddy Before Reading
MW-19R	04/05/12	630.50	633.05	need new survey		20.67	0.14	20.81	18.15	612.35	NA	Spill Buddy After Reading
MW-19R	04/16/12	630.50	633.05	need new survey		19.75	1.07	20.82	17.44	613.06	NA	
MW-19R	06/26/12	630.50	633.05	need new survey		17.14	0.01	17.15	14.59	615.91	NA	
MW-19R	07/26/12	630.50	633.05	need new survey		17.65	1.03	18.68	15.33	615.17	NA	Spill Buddy Before Reading
MW-19R	07/26/12	630.50	633.05	need new survey		18.26	0.03	18.29	15.72	614.78	NA	Spill Buddy After Reading
MW-19R	08/09/12	630.50	633.05	need new survey		17.79	1.26	19.05	15.52	614.98	NA	Spill Buddy Before Reading
MW-19R	08/09/12	630.50	633.05	need new survey		18.38	0.07	18.45	15.85	614.65	NA	Spill Buddy After Reading
MW-19R	09/29/12	630.50	633.05	need new survey		18.84	1.75	20.59	16.69	613.81	NA	Spill Buddy Before Reading
MW-19R	09/29/12	630.50	633.05	need new survey		19.50	0.09	19.59	16.97	613.53	NA	Spill Buddy After Reading
MW-19R	09/30/12	630.50	633.05	need new survey		18.94	0.68	19.62	16.54	613.96	NA	
MW-19R	11/21/12	630.50	633.05	need new survey		19.35	0.79	20.14	16.98	613.52	NA	
MW-19R	12/17/12	630.50	633.05	need new survey		19.60	0.85	20.45	17.24	613.26	NA	
MW-19R	03/25/13	630.50	633.05	need new survey		21.39	-0.97	20.42	18.62	612.63	NA	
MW-19R	05/05/13	630.50	633.05	need new survey		19.52	1.11	20.63	17.22	613.28	NA	
MW-19R	10/03/13	630.50	633.05	need new survey		18.91	2.08	20.99	16.83	613.67	NA	
MW-20	06/30/89	633.80	636.47	619.00	609.00	NP	0.00	19.86	17.19	616.61	No	
MW-20	07/12/89	633.80	636.47	619.00	609.00	NP	0.00	19.98	17.31	616.49	No	

Table 3
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Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-20	07/26/89	633.80	636.47	619.00	609.00	NP	0.00	19.92	17.25	616.55	No	
MW-20	07/27/89	633.80	636.47	619.00	609.00	NP	0.00	20.05	17.38	616.42	No	
MW-20	09/03/89	633.80	636.47	619.00	609.00	NP	0.00	20.16	17.49	616.31	No	
MW-20	11/16/89	633.80	636.47	619.00	609.00	NP	0.00	20.17	17.50	616.30	No	
MW-20	11/28/89	633.80	636.47	619.00	609.00	NP	0.00	20.33	17.66	616.14	No	
MW-20	06/01/90	633.80	636.47	619.00	609.00	NP	0.00	20.33	17.66	616.14	No	
MW-20	06/19/90	633.80	636.47	619.00	609.00	NP	0.00	20.20	17.53	616.27	No	
MW-20	06/27/90	633.80	636.47	619.00	609.00	NP	0.00	20.27	17.60	616.20	No	
MW-20	07/05/90	633.80	636.47	619.00	609.00	NP	0.00	20.47	17.80	616.00	No	
MW-20	07/13/90	633.80	636.47	619.00	609.00	NP	0.00	20.46	17.79	616.01	No	
MW-20	07/17/90	633.80	636.47	619.00	609.00	NP	0.00	20.24	17.57	616.23	No	
MW-20	07/25/90	633.80	636.47	619.00	609.00	NP	0.00	20.43	17.76	616.04	No	
MW-20	08/09/90	633.80	636.47	619.00	609.00	NP	0.00	20.35	17.68	616.12	No	
MW-20	08/14/90	633.80	636.47	619.00	609.00	NP	0.00	20.41	17.74	616.06	No	
MW-20	08/27/90	633.80	636.47	619.00	609.00	NP	0.00	20.24	17.57	616.23	No	
MW-20	09/06/90	633.80	636.47	619.00	609.00	NP	0.00	19.98	17.31	616.49	No	
MW-20	01/04/91	633.80	636.47	619.00	609.00	NP	0.00	19.76	17.09	616.71	No	
MW-20	01/30/91	633.80	636.47	619.00	609.00	NP	0.00	19.86	17.19	616.61	No	
MW-20	04/24/91	633.80	636.47	619.00	609.00	NP	0.00	20.26	17.59	616.21	No	
MW-20	07/09/91	633.80	636.47	619.00	609.00	NP	0.00	18.83	16.16	617.64	No	
MW-20	10/08/91	633.80	636.47	619.00	609.00	NP	0.00	17.33	14.66	619.14	Yes	
MW-20	01/07/92	633.80	636.47	619.00	609.00	NP	0.00	17.49	14.82	618.98	No	
MW-20	10/14/92	633.80	636.47	619.00	609.00	NP	0.00	17.23	14.56	619.24	Yes	
MW-20	06/25/93	633.80	636.47	619.00	609.00	NP	0.00	15.86	13.19	620.61	Yes	
MW-20	10/28/93	633.80	636.47	619.00	609.00	NP	0.00	17.43	14.76	619.04	Yes	
MW-20	01/29/94	633.80	636.47	619.00	609.00	NP	0.00	18.41	15.74	618.06	No	
MW-20	04/27/94	633.80	636.47	619.00	609.00	NP	0.00	18.52	15.85	617.95	No	
MW-20	07/21/94	633.80	636.47	619.00	609.00	NP	0.00	17.30	14.63	619.17	Yes	
MW-20	10/25/94	633.80	636.47	619.00	609.00	NP	0.00	17.67	15.00	618.80	No	
MW-20	10/27/94	633.80	636.47	619.00	609.00	NP	0.00	16.93	14.26	619.54	Yes	
MW-20	02/01/95	633.80	636.47	619.00	609.00	NP	0.00	18.71	16.04	617.76	No	
MW-20	04/04/95	633.80	636.47	619.00	609.00	NP	0.00	19.35	16.68	617.12	No	
MW-20	11/13/95	633.80	636.47	619.00	609.00	NP	0.00	17.54	14.87	618.93	No	
MW-20	03/13/96	633.80	636.47	619.00	609.00	NP	0.00	19.01	16.34	617.46	No	
MW-20	04/22/96	633.80	636.47	619.00	609.00	NP	0.00	18.35	15.68	618.12	No	
MW-20	10/08/96	633.80	636.47	619.00	609.00	NP	0.00	16.83	14.16	619.64	Yes	
MW-20	04/29/97	633.80	636.47	619.00	609.00	NP	0.00	16.30	13.63	620.17	Yes	
MW-20	11/03/98	633.80	636.47	619.00	609.00	NP	0.00	19.39	16.72	617.08	No	
MW-20	03/02/99	633.80	636.47	619.00	609.00	NP	0.00	19.39	16.72	617.08	No	
MW-20	04/26/00	633.80	636.47	619.00	609.00	NP	0.00	18.71	16.04	617.76	No	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-20	10/10/00	633.80	636.47	619.00	609.00	NP	0.00	18.95	16.28	617.52	No	
MW-20	11/05/02	633.80	636.47	619.00	609.00	NP	0.00	18.88	16.21	617.59	No	
MW-20	04/17/03	633.80	636.47	619.00	609.00	NM	NM	NM	NM	NM	NM	
MW-20	05/15/03	633.80	636.47	619.00	609.00	NM	NM	NM	NM	NM	NM	
MW-20	08/18/03	Abandoned										
MW-21	06/30/89	635.10	637.26	618.50	608.50	NP	0.00	20.53	18.37	616.73	No	
MW-21	07/12/89	635.10	637.26	618.50	608.50	NP	0.00	20.68	18.52	616.58	No	
MW-21	07/26/89	635.10	637.26	618.50	608.50	NP	0.00	20.53	18.37	616.73	No	
MW-21	07/27/89	635.10	637.26	618.50	608.50	NP	0.00	20.69	18.53	616.57	No	
MW-21	09/03/89	635.10	637.26	618.50	608.50	NP	0.00	20.89	18.73	616.37	No	
MW-21	11/16/89	635.10	637.26	618.50	608.50	NP	0.00	20.80	18.64	616.46	No	
MW-21	11/28/89	635.10	637.26	618.50	608.50	NP	0.00	21.03	18.87	616.23	No	
MW-21	06/01/90	635.10	637.26	618.50	608.50	NP	0.00	21.05	18.89	616.21	No	
MW-21	06/19/90	635.10	637.26	618.50	608.50	NP	0.00	21.06	18.90	616.20	No	
MW-21	06/27/90	635.10	637.26	618.50	608.50	NP	0.00	21.25	19.09	616.01	No	
MW-21	07/05/90	635.10	637.26	618.50	608.50	NP	0.00	21.50	19.34	615.76	No	
MW-21	07/13/90	635.10	637.26	618.50	608.50	NP	0.00	21.37	19.21	615.89	No	
MW-21	07/17/90	635.10	637.26	618.50	608.50	NP	0.00	21.06	18.90	616.20	No	
MW-21	07/25/90	635.10	637.26	618.50	608.50	NP	0.00	21.30	19.14	615.96	No	
MW-21	08/09/90	635.10	637.26	618.50	608.50	NP	0.00	21.17	19.01	616.09	No	
MW-21	08/14/90	635.10	637.26	618.50	608.50	NP	0.00	21.33	19.17	615.93	No	
MW-21	08/27/90	635.10	637.26	618.50	608.50	NP	0.00	21.24	19.08	616.02	No	
MW-21	09/06/90	635.10	637.26	618.50	608.50	NP	0.00	21.02	18.86	616.24	No	
MW-21	01/04/91	635.10	637.26	618.50	608.50	NP	0.00	20.41	18.25	616.85	No	
MW-21	01/30/91	635.10	637.26	618.50	608.50	NP	0.00	20.52	18.36	616.74	No	
MW-21	04/24/91	635.10	637.26	618.50	608.50	NP	0.00	21.04	18.88	616.22	No	
MW-21	06/06/91	635.10	637.26	618.50	608.50	NP	0.00	20.06	17.90	617.20	No	
MW-21	07/09/91	635.10	637.26	618.50	608.50	NP	0.00	19.18	17.02	618.08	No	
MW-21	08/06/91	635.10	637.26	618.50	608.50	NP	0.00	18.49	16.33	618.77	Yes	
MW-21	09/04/91	635.10	637.26	618.50	608.50	NP	0.00	18.37	16.21	618.89	Yes	
MW-21	10/08/91	635.10	637.26	618.50	608.50	NP	0.00	17.59	15.43	619.67	Yes	
MW-21	11/08/91	635.10	637.26	618.50	608.50	NP	0.00	18.28	16.12	618.98	Yes	
MW-21	12/03/91	635.10	637.26	618.50	608.50	NP	0.00	16.53	14.37	620.73	Yes	
MW-21	01/07/92	635.10	637.26	618.50	608.50	NP	0.00	17.83	15.67	619.43	Yes	
MW-21	02/04/92	635.10	637.26	618.50	608.50	NP	0.00	18.53	16.37	618.73	Yes	
MW-21	03/03/92	635.10	637.26	618.50	608.50	NP	0.00	18.95	16.79	618.31	No	
MW-21	09/24/92	635.10	637.26	618.50	608.50	NP	0.00	17.08	14.92	620.18	Yes	
MW-21	10/14/92	635.10	637.26	618.50	608.50	NP	0.00	17.84	15.68	619.42	Yes	
MW-21	06/25/93	635.10	637.26	618.50	608.50	NP	0.00	15.67	13.51	621.59	Yes	

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MW-21	10/28/93	635.10	637.26	618.50	608.50	NP	0.00	18.26	16.10	619.00	Yes		
MW-21	04/27/94	635.10	637.26	618.50	608.50	NP	0.00	19.03	16.87	618.23	No		
MW-21	07/21/94	635.10	637.26	618.50	608.50	NP	0.00	17.59	15.43	619.67	Yes		
MW-21	04/04/95	635.10	637.26	618.50	608.50	NP	0.00	20.21	18.05	617.05	No		
MW-21	07/12/95	635.10	637.26	618.50	608.50	NP	0.00	19.04	16.88	618.22	No		
MW-21	11/13/95	635.10	637.26	618.50	608.50	17.78	0.01	17.79	15.62	619.48	Yes		
MW-21	10/08/96	635.10	637.26	618.50	608.50	NP	0.00	16.93	14.77	620.33	Yes		
MW-21	04/29/97	635.10	637.26	618.50	608.50	NP	0.00	16.10	13.94	621.16	Yes		
MW-21	03/02/99	635.10	637.26	618.50	608.50	NP	0.00	19.99	17.83	617.27	No		
MW-21	10/07/99	635.10	637.26	618.50	608.50	NP	0.00	16.89	14.73	620.37	Yes		
MW-21	11/09/99	635.10	637.26	618.50	608.50	NP	0.00	16.60	14.44	620.66	Yes		
MW-21	01/27/00	635.10	637.26	618.50	608.50	NP	0.00	19.18	17.02	618.08	No		
MW-21	04/20/00	635.10	637.26	618.50	608.50	NP	0.00	19.11	16.95	618.15	No		
MW-21	04/26/00	635.10	637.26	618.50	608.50	NP	0.00	19.12	16.96	618.14	No		
MW-21	08/18/00	635.10	637.26	618.50	608.50	NP	0.00	19.62	17.46	617.64	No		
MW-21	11/05/02	635.10	637.26	618.50	608.50	NP	0.00	19.01	16.85	618.25	No		
MW-21	10/23/03	635.10	637.26	618.50	608.50	NP	0.00	21.01	18.85	616.25	No		
MW-21	04/19/04	635.88	637.31	618.50	608.50	NP	0.00	21.87	20.44	615.44	No		
MW-21	11/16/04	635.88	637.31	618.50	608.50	NP	0.00	20.14	18.71	617.17	No		
MW-21	04/18/05	635.88	637.31	618.50	608.50	NP	0.00	20.36	18.93	616.95	No		
MW-21	10/11/05	635.88	637.31	618.50	608.50	NP	0.00	19.83	18.40	617.48	No		
MW-21	05/23/06	635.88	637.31	618.50	608.50	NP	0.00	19.08	17.65	618.23	No		
MW-21	10/16/06	635.88	637.31	618.50	608.50	NP	0.00	19.87	18.44	617.44	No		
MW-21	04/23/07	635.88	637.31	618.50	608.50	NP	0.00	20.82	19.39	616.49	No	Well bent	
MW-21	06/26/07					Abandoned							
MW-22	06/30/89	636.30	638.97	618.60	608.60	22.21	1.50	23.71	19.88	616.42	No		
MW-22	07/12/89	636.30	638.97	618.60	608.60	22.10	2.50	24.60	19.99	616.31	No		
MW-22	07/26/89	636.30	638.97	618.60	608.60	22.01	2.71	24.72	19.95	616.35	No		
MW-22	07/27/89	636.30	638.97	618.60	608.60	22.06	2.78	24.84	20.02	616.28	No		
MW-22	09/03/89	636.30	638.97	618.60	608.60	22.25	2.64	24.89	20.18	616.12	No		
MW-22	11/16/89	636.30	638.97	618.60	608.60	22.08	2.61	24.69	20.00	616.30	No		
MW-22	11/29/89	636.30	638.97	618.60	608.60	22.02	2.62	24.64	19.94	616.36	No		
MW-22	12/01/89	636.30	638.97	618.60	608.60	22.35	2.45	24.80	20.23	616.07	No		
MW-22	12/02/89	636.30	638.97	618.60	608.60	22.55	2.05	24.60	20.34	615.96	No		
MW-22	05/04/90	636.30	638.97	618.60	608.60	22.78	3.56	26.34	20.91	615.39	No		
MW-22	06/01/90	636.30	638.97	618.60	608.60	22.52	3.53	26.05	20.65	615.65	No		
MW-22	06/19/90	636.30	638.97	618.60	608.60	22.52	3.24	25.76	20.58	615.72	No		
MW-22	06/27/90	636.30	638.97	618.60	608.60	22.69	3.07	25.76	20.71	615.59	No		
MW-22	07/05/90	636.30	638.97	618.60	608.60	22.85	3.22	26.07	20.91	615.39	No		

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MW-22	07/13/90	636.30	638.97	618.60	608.60	22.65	3.11	25.76	20.68	615.62	No	
MW-22	07/17/90	636.30	638.97	618.60	608.60	22.46	3.11	25.57	20.49	615.81	No	
MW-22	07/25/90	636.30	638.97	618.60	608.60	22.65	3.15	25.80	20.69	615.61	No	
MW-22	08/27/90	636.30	638.97	618.60	608.60	22.60	3.08	25.68	20.63	615.67	No	
MW-22	09/06/90	636.30	638.97	618.60	608.60	22.50	2.94	25.44	20.49	615.81	No	
MW-22	01/04/91	636.30	638.97	618.60	608.60	22.02	1.99	24.01	19.80	616.50	No	
MW-22	01/30/91	636.30	638.97	618.60	608.60	22.10	2.29	24.39	19.95	616.35	No	
MW-22	04/24/91	636.30	638.97	618.60	608.60	22.42	3.02	25.44	20.43	615.87	No	
MW-22	07/09/91	636.30	638.97	618.60	608.60	21.41	0.50	21.91	18.85	617.45	No	
MW-22	10/08/91	636.30	638.97	618.60	608.60	18.94	3.40	22.34	17.04	619.26	Yes	
MW-22	01/07/92	636.30	638.97	618.60	608.60	19.20	2.74	21.94	17.15	619.15	Yes	
MW-22	10/14/92	636.30	638.97	618.60	608.60	19.32	2.74	22.06	17.27	619.03	Yes	
MW-22	06/25/93	636.30	638.97	618.60	608.60	16.97	4.22	21.19	15.25	621.05	Yes	
MW-22	10/28/93	636.30	638.97	618.60	608.60	16.79	5.13	21.92	15.28	621.02	Yes	
MW-22	01/29/94	636.30	638.97	618.60	608.60	20.64	1.40	22.04	18.29	618.01	No	
MW-22	04/27/94	636.30	638.97	618.60	608.60	20.74	1.58	22.32	18.43	617.87	No	
MW-22	07/21/94	636.30	638.97	618.60	608.60	18.96	3.00	21.96	16.97	619.33	Yes	
MW-22	10/25/94	636.30	638.97	618.60	608.60	19.77	2.08	21.85	17.57	618.73	Yes	
MW-22	02/01/95	636.30	638.97	618.60	608.60	21.15	1.17	22.32	18.74	617.56	No	
MW-22	04/04/95	636.30	638.97	618.60	608.60	21.80	1.18	22.98	19.40	616.90	No	
MW-22	07/12/95	636.30	638.97	618.60	608.60	20.90	0.78	21.68	18.41	617.89	No	
MW-22	11/14/95	636.30	638.97	618.60	608.60	19.55	1.00	20.55	17.11	619.19	Yes	
MW-22	03/13/96	636.30	638.97	618.60	608.60	21.34	1.44	22.78	19.00	617.30	No	
MW-22	10/08/96	636.30	638.97	618.60	608.60	18.30	2.42	20.72	16.18	620.12	Yes	
MW-22	04/29/97	636.30	638.97	618.60	608.60	17.60	2.00	19.60	15.38	620.92	Yes	
MW-22	06/10/97	636.30	638.97	618.60	608.60	18.75	2.40	21.15	16.62	619.68	Yes	
MW-22	11/03/98	636.30	638.97	618.60	608.60	21.79	0.64	22.43	19.26	617.04	No	
MW-22	03/02/99	636.30	638.97	618.60	608.60	21.85	1.45	23.30	19.51	616.79	No	
MW-22	10/07/99	636.30	638.97	618.60	608.60	18.62	0.20	18.82	16.00	620.30	Yes	
MW-22	11/09/99	636.30	638.97	618.60	608.60	18.52	0.05	18.57	15.86	620.44	Yes	bailed <0.1 gal. FP
MW-22	12/21/99	636.30	638.97	618.60	608.60	18.36	0.06	18.42	15.70	620.60	Yes	
MW-22	01/27/00	636.30	638.97	618.60	608.60	20.60	1.34	21.94	18.23	618.07	No	bailed 0.3 gal. FP
MW-22	02/24/00	636.30	638.97	618.60	608.60	21.10	0.83	21.93	18.62	617.68	No	bailed 0.2 gal. FP
MW-22	03/31/00	636.30	638.97	618.60	608.60	21.34	0.32	21.66	18.74	617.56	No	bailed 0.12 gal. FP
MW-22	04/20/00	636.30	638.97	618.60	608.60	21.08	1.06	22.14	18.65	617.65	No	bailed 0.5 gal. FP
MW-22	04/26/00	636.30	638.97	618.60	608.60	20.97	0.43	21.40	18.40	617.90	No	bailed 0.25 gal. FP
MW-22	05/31/00	636.30	638.97	618.60	608.60	21.07	0.29	21.36	18.47	617.83	No	bailed 0.125 gal. FP
MW-22	06/29/00	636.30	638.97	618.60	608.60	20.88	0.26	21.14	18.27	618.03	No	bailed 0.1 gal. FP
MW-22	07/26/00	636.30	638.97	618.60	608.60	20.95	0.25	21.20	18.34	617.96	No	bailed <0.1 gal. FP
MW-22	08/18/00	636.30	638.97	618.60	608.60	21.06	0.23	21.29	18.44	617.86	No	bailed 0.125 gal. FP

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-22	09/27/00	636.30	638.97	618.60	608.60	21.69	0.36	22.05	19.10	617.20	No	bailed <0.05 gal. FP
MW-22	10/11/00	636.30	638.97	618.60	608.60	21.57	0.03	21.60	18.91	617.39	No	
MW-22	11/17/00	636.30	638.97	618.60	608.60	21.62	0.86	22.48	19.14	617.16	No	bailed 0.5 gal. FP
MW-22	12/12/00	636.30	638.97	618.60	608.60	21.30	0.51	21.81	18.75	617.55	No	bailed 0.25 gal. FP
MW-22	01/18/01	636.30	638.97	618.60	608.60	21.71	0.57	22.28	19.17	617.13	No	bailed 0.25 gal. FP
MW-22	04/24/01	636.30	638.97	618.60	608.60	21.80	1.59	23.39	19.49	616.81	No	product abated using vactruck
MW-22	05/23/01	636.30	638.97	618.60	608.60	20.78	1.26	22.04	18.39	617.91	No	no product bailed
MW-22	06/19/01	636.30	638.97	618.60	608.60	20.56	1.17	21.73	18.15	618.15	No	
MW-22	07/26/01	636.30	638.97	618.60	608.60	21.04	0.98	22.02	18.59	617.71	No	
MW-22	08/31/01	636.30	638.97	618.60	608.60	21.37	0.67	22.04	18.85	617.45	No	
MW-22	09/26/01	636.30	638.97	618.60	608.60	21.44	0.46	21.90	18.87	617.43	No	
MW-22	10/24/01	636.30	638.97	618.60	608.60	21.50	0.40	21.90	18.92	617.38	No	
MW-22	12/20/01	636.30	638.97	618.60	608.60	21.95	1.39	23.34	19.59	616.71	No	
MW-22	01/22/02	636.30	638.97	618.60	608.60	21.64	2.08	23.72	19.44	616.86	No	
MW-22	02/26/02	636.30	638.97	618.60	608.60	22.05	2.34	24.39	19.91	616.39	No	
MW-22	03/20/02	636.30	638.97	618.60	608.60	22.20	2.56	24.76	20.11	616.19	No	
MW-22	04/24/02	636.30	638.97	618.60	608.60	21.51	3.78	25.29	19.69	616.61	No	
MW-22	05/15/02	636.30	638.97	618.60	608.60	21.32	3.00	24.32	19.33	616.97	No	
MW-22	06/27/02	636.30	638.97	618.60	608.60	21.70	2.15	23.85	19.52	616.78	No	
MW-22	07/25/02	636.30	638.97	618.60	608.60	21.46	2.08	23.54	19.26	617.04	No	
MW-22	08/20/02	636.30	638.97	618.60	608.60	21.59	1.73	23.32	19.31	616.99	No	
MW-22	09/30/02	636.30	638.97	618.60	608.60	21.07	1.37	22.44	18.71	617.59	No	
MW-22	11/05/02	636.30	638.97	618.60	608.60	21.09	0.89	21.98	18.62	617.68	No	
MW-22	12/23/02	636.30	638.97	618.60	608.60	21.71	0.26	21.97	19.10	617.20	No	
MW-22	01/28/03	636.30	638.97	618.60	608.60	21.99	1.34	23.33	19.62	616.68	No	
MW-22	02/19/03	636.30	638.97	618.60	608.60	22.04	1.64	23.68	19.74	616.56	No	
MW-22	04/17/03	636.30	638.97	618.60	608.60	22.35	2.70	25.05	20.29	616.01	No	
MW-22	05/15/03	636.30	638.97	618.60	608.60	22.71	2.56	25.27	20.62	615.68	No	
MW-22	06/10/03	636.30	638.97	618.60	608.60	22.36	2.31	24.67	20.21	616.09	No	
MW-22	10/23/03	636.30	638.97	618.60	608.60	22.44	2.53	24.97	20.34	615.96	No	
MW-22	12/03/03	636.30	638.97	618.60	608.60	22.53	2.81	25.34	20.49	615.81	No	
MW-22	04/19/04	636.32	639.10	618.60	608.60	23.09	3.81	26.90	21.17	615.15	No	
MW-22	07/28/04	636.32	639.10	618.60	608.60	22.49	1.92	24.41	20.14	616.18	No	
MW-22	11/15/04	636.32	639.10	618.60	608.60	21.87	1.25	23.12	19.37	616.95	No	
MW-22	04/18/05	636.32	639.10	618.60	608.60	22.13	1.97	24.10	19.79	616.53	No	
MW-22	09/09/05	636.32	639.10	618.60	608.60	21.69	0.68	22.37	19.06	617.26	No	
MW-22	05/23/06	636.32	639.10	618.60	608.60	20.88	1.11	21.99	18.35	617.97	No	
MW-22	10/16/06	636.32	639.10	618.60	608.60	21.72	1.11	22.83	19.19	617.13	No	
MW-22	04/23/07	636.32	639.10	618.60	608.60	22.54	2.49	25.03	20.32	616.00	No	
MW-22	09/25/07	636.32	639.10	618.60	608.60	22.37	2.28	24.65	20.10	616.22	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-22	05/01/08	636.32	639.10	618.60	608.60	21.52	1.26	22.78	19.02	617.30	No	
MW-22	10/20/08	636.32	639.10	618.60	608.60	20.26	0.36	20.62	17.56	618.76	Yes	
MW-22	04/18/09	636.32	639.10	618.60	608.60	21.11	0.43	21.54	18.43	617.89	No	
MW-22	10/11/09	636.32	639.10	618.60	608.60	21.64	0.48	22.12	18.97	617.35	No	
MW-22	04/28/10	636.32	639.10	618.60	608.60	21.58	0.98	22.56	19.02	617.30	No	
MW-22	10/25/10	636.32	639.10	618.60	608.60	19.32	1.13	20.45	16.80	619.52	Yes	
MW-22	04/25/11	636.32	639.10	618.60	608.60	20.64	0.98	21.62	18.08	618.24	No	
MW-22	08/03/11	636.32	639.10	618.60	608.60	19.17	0.96	20.13	16.61	619.71	Yes	
MW-22	10/10/11	636.32	639.10	618.60	608.60	20.22	0.17	20.39	17.48	618.84	Yes	
MW-22	01/04/12	636.32	639.10	618.60	608.60	21.51	0.49	22.00	18.84	617.48	No	
MW-22	04/05/12	636.32	639.10	618.60	608.60	22.26	1.15	23.41	19.74	616.58	No	Spill Buddy Before Reading
MW-22	04/05/12	636.32	639.10	618.60	608.60	22.48	0.32	22.80	19.77	616.55	No	Spill Buddy After Reading
MW-22	04/16/12	636.32	639.10	618.60	608.60	22.44	1.24	23.68	19.94	616.38	No	
MW-22	06/18/12	636.32	639.10	618.60	608.60	20.85	0.77	21.62	18.24	618.08	No	
MW-22	06/26/12	636.32	639.10	618.60	608.60	20.44	0.66	21.10	17.81	618.51	No	
MW-22	09/30/12	636.32	639.10	618.60	608.60	21.32	0.73	22.05	18.70	617.62	No	
MW-22	11/21/12	636.32	639.10	618.60	608.60	21.88	0.07	21.95	19.12	617.20	No	
MW-22	12/17/12	636.32	639.10	618.60	608.60	22.12	0.18	22.30	19.38	616.94	No	
MW-22	03/25/13	636.32	639.10	618.60	608.60	22.28	2.47	24.75	20.06	616.26	No	
MW-22	05/05/13	636.32	639.10	618.60	608.60	22.32	2.78	25.10	20.17	616.15	No	
MW-22	10/03/13	636.32	639.10	618.60	608.60	22.08	1.02	23.10	19.53	616.79	No	
MW-22	05/22/14	636.32	639.10	618.60	608.60	20.34	1.77	22.11	17.96	618.36	No	
MW-22	10/31/14	636.32	639.10	618.60	608.60	20.16	0.77	20.93	17.55	618.77	Yes	
MW-22	05/06/15	636.32	639.10	618.60	608.60	21.99	0.04	22.03	19.22	617.10	No	
MW-22	10/05/15	636.32	639.10	618.60	608.60	20.35	0.09	20.44	17.59	618.73	Yes	
MW-22	05/23/16	636.32	639.10	618.60	608.60	17.82	0.07	17.89	15.06	621.26	Yes	
MW-22	10/03/16	636.32	639.10	618.60	608.60	18.92	0.10	19.02	16.16	620.16	Yes	
MW-22	06/14/17	636.32	639.10	618.60	608.60	18.00	0.10	18.10	15.24	621.08	Yes	
MW-22	06/21/17	636.32	639.10	618.60	608.60	18.36	0.13	18.49	15.61	620.71	Yes	
MW-22	06/22/17	636.32	639.10	618.60	608.60	18.23	0.10	18.33	15.47	620.85	Yes	
MW-22	06/23/17	636.32	639.10	618.60	608.60	18.32	0.11	18.43	15.56	620.76	Yes	
MW-23	06/30/89	633.90	636.81	624.70	609.70	17.07	3.20	20.27	14.88	619.02	No	
MW-23	07/12/89	633.90	636.81	624.70	609.70	15.08	2.50	17.58	12.73	621.17	No	
MW-23	07/26/89	633.90	636.81	624.70	609.70	17.81	2.73	20.54	15.52	618.38	No	
MW-23	07/27/89	633.90	636.81	624.70	609.70	17.83	2.77	20.60	15.55	618.35	No	
MW-23	09/03/89	633.90	636.81	624.70	609.70	17.95	3.72	21.67	15.88	618.02	No	
MW-23	11/16/89	633.90	636.81	624.70	609.70	17.20	5.15	22.35	15.45	618.45	No	
MW-23	11/29/89	633.90	636.81	624.70	609.70	17.55	3.98	21.53	15.54	618.36	No	
MW-23	12/01/89	633.90	636.81	624.70	609.70	18.20	2.27	20.47	15.80	618.10	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	12/02/89	633.90	636.81	624.70	609.70	18.41	1.41	19.82	15.82	618.08	No	
MW-23	05/04/90	633.90	636.81	624.70	609.70	18.03	4.26	22.29	16.08	617.82	No	
MW-23	06/01/90	633.90	636.81	624.70	609.70	17.35	3.65	21.00	15.26	618.64	No	
MW-23	06/19/90	633.90	636.81	624.70	609.70	17.49	3.37	20.86	15.34	618.56	No	
MW-23	06/27/90	633.90	636.81	624.70	609.70	17.78	3.28	21.06	15.61	618.29	No	
MW-23	07/05/90	633.90	636.81	624.70	609.70	18.10	3.43	21.53	15.96	617.94	No	
MW-23	07/13/90	633.90	636.81	624.70	609.70	18.02	3.65	21.67	15.93	617.97	No	
MW-23	07/17/90	633.90	636.81	624.70	609.70	17.78	3.57	21.35	15.68	618.22	No	
MW-23	07/25/90	633.90	636.81	624.70	609.70	18.10	3.79	21.89	16.05	617.85	No	
MW-23	08/09/90	633.90	636.81	624.70	609.70	20.68	2.65	23.33	18.37	615.53	No	
MW-23	08/27/90	633.90	636.81	624.70	609.70	18.29	3.71	22.00	16.22	617.68	No	
MW-23	09/06/90	633.90	636.81	624.70	609.70	17.75	3.07	20.82	15.53	618.37	No	
MW-23	01/04/91	633.90	636.81	624.70	609.70	17.84	2.56	20.40	15.51	618.39	No	
MW-23	01/30/91	633.90	636.81	624.70	609.70	18.05	3.18	21.23	15.86	618.04	No	
MW-23	04/24/91	633.90	636.81	624.70	609.70	17.18	3.78	20.96	15.12	618.78	No	
MW-23	06/06/91	633.90	636.81	624.70	609.70	15.11	4.67	19.78	13.25	620.65	No	
MW-23	07/09/91	633.90	636.81	624.70	609.70	13.76	5.93	19.69	12.19	621.71	No	
MW-23	08/06/91	633.90	636.81	624.70	609.70	12.87	7.10	19.97	11.56	622.34	No	
MW-23	09/04/91	633.90	636.81	624.70	609.70	13.93	6.02	19.95	12.38	621.52	No	
MW-23	10/08/91	633.90	636.81	624.70	609.70	13.10	6.60	19.70	11.68	622.22	No	
MW-23	11/08/91	633.90	636.81	624.70	609.70	14.32	5.15	19.47	12.57	621.33	No	
MW-23	12/03/91	633.90	636.81	624.70	609.70	10.40	10.15	20.55	9.78	624.12	No	
MW-23	01/07/92	633.90	636.81	624.70	609.70	13.27	7.60	20.87	12.08	621.82	No	
MW-23	02/04/92	633.90	636.81	624.70	609.70	15.40	4.54	19.94	13.52	620.38	No	
MW-23	03/03/92	633.90	636.81	624.70	609.70	15.45	5.75	21.20	13.84	620.06	No	
MW-23	09/24/92	633.90	636.81	624.70	609.70	13.02	6.61	19.63	11.60	622.30	No	
MW-23	10/14/92	633.90	636.81	624.70	609.70	14.23	5.64	19.87	12.59	621.31	No	
MW-23	06/25/93	633.90	636.81	624.70	609.70	9.77	9.74	19.51	9.06	624.84	Yes	
MW-23	10/28/93	633.90	636.81	624.70	609.70	15.31	4.55	19.86	13.43	620.47	No	
MW-23	01/29/94	633.90	636.81	624.70	609.70	16.32	3.70	20.02	14.25	619.65	No	
MW-23	04/27/94	633.90	636.81	624.70	609.70	13.99	6.34	20.33	12.51	621.39	No	
MW-23	07/21/94	633.90	636.81	624.70	609.70	13.72	5.86	19.58	12.13	621.77	No	
MW-23	10/25/94	633.90	636.81	624.70	609.70	13.84	6.49	20.33	12.40	621.50	No	
MW-23	02/01/95	633.90	636.81	624.70	609.70	17.28	2.53	19.81	14.94	618.96	No	
MW-23	04/04/95	633.90	636.81	624.70	609.70	17.60	2.65	20.25	15.29	618.61	No	
MW-23	11/13/95	633.90	636.81	624.70	609.70	13.05	6.90	19.95	11.70	622.20	No	
MW-23	10/08/96	633.90	636.81	624.70	609.70	12.78	6.47	19.25	11.33	622.57	No	
MW-23	04/29/97	633.90	636.81	624.70	609.70	10.25	9.20	19.45	9.42	624.48	No	
MW-23	06/10/97	633.90	636.81	624.70	609.70	13.45	5.40	18.85	11.76	622.14	No	FP bailed 5/22/97
MW-23	11/03/98	633.90	636.81	624.70	609.70	16.05	5.16	21.21	14.31	619.59	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	03/02/99	633.90	636.81	624.70	609.70	16.91	4.04	20.95	14.91	618.99	No	
MW-23	10/07/99	633.90	636.81	624.70	609.70	12.44	5.61	18.05	10.80	623.10	No	
MW-23	11/09/99	633.90	636.81	624.70	609.70	11.95	6.75	18.70	10.56	623.34	No	bailed 3 gal. FP
MW-23	12/21/99	633.90	636.81	624.70	609.70	14.55	4.45	19.00	12.65	621.25	No	bailed 8 gal. FP
MW-23	01/27/00	633.90	636.81	624.70	609.70	17.32	1.58	18.90	14.77	619.13	No	bailed 0.4 gal. FP
MW-23	02/24/00	633.90	636.81	624.70	609.70	17.64	1.32	18.96	15.03	618.87	No	bailed 0.25 gal. FP
MW-23	03/31/00	633.90	636.81	624.70	609.70	15.70	4.07	19.77	13.71	620.19	No	bailed 2 gal. FP
MW-23	04/20/00	633.90	636.81	624.70	609.70	13.18	7.37	20.55	11.93	621.97	No	bailed 6 gal. FP
MW-23	04/26/00	633.90	636.81	624.70	609.70	15.82	3.18	19.00	13.63	620.27	No	bailed 2 gal. FP
MW-23	05/31/00	633.90	636.81	624.70	609.70	16.20	2.58	18.78	13.87	620.03	No	bailed 3 gal. FP
MW-23	06/29/00	633.90	636.81	624.70	609.70	15.15	3.60	18.75	13.05	620.85	No	bailed 1 gal. FP
MW-23	07/26/00	633.90	636.81	624.70	609.70	16.02	2.84	18.86	13.75	620.15	No	bailed 1 gal. FP
MW-23	08/18/00	633.90	636.81	624.70	609.70	16.55	2.50	19.05	14.20	619.70	No	bailed 1 gal. FP
MW-23	09/27/00	633.90	636.81	624.70	609.70	17.41	2.12	19.53	14.98	618.92	No	bailed 1.25 gal. FP
MW-23	10/11/00	633.90	636.81	624.70	609.70	17.60	1.75	19.35	15.09	618.81	No	bailed .25 gal. FP
MW-23	11/17/00	633.90	636.81	624.70	609.70	14.98	5.33	20.31	13.27	620.63	No	bailed 4.25 gal. FP
MW-23	12/12/00	633.90	636.81	624.70	609.70	15.11	4.98	20.09	13.32	620.58	No	bailed 2.5 gal. FP
MW-23	01/18/01	633.90	636.81	624.70	609.70	15.51	4.92	20.43	13.71	620.19	No	bailed 2.75 gal. FP
MW-23	04/24/01	633.90	636.81	624.70	609.70	16.16	3.46	19.62	14.03	619.87	No	product abated using vactruck
MW-23	05/23/01	633.90	636.81	624.70	609.70	13.73	5.82	19.55	12.13	621.77	No	no product bailed
MW-23	06/19/01	633.90	636.81	624.70	609.70	14.77	4.47	19.24	12.87	621.03	No	
MW-23	07/26/01	633.90	636.81	624.70	609.70	16.99	2.36	19.35	14.61	619.29	No	
MW-23	08/31/01	633.90	636.81	624.70	609.70	16.99	2.69	19.68	14.69	619.21	No	
MW-23	09/26/01	633.90	636.81	624.70	609.70	17.59	2.01	19.60	15.13	618.77	No	
MW-23	10/24/01	633.90	636.81	624.70	609.70	17.16	2.70	19.86	14.86	619.04	No	
MW-23	12/20/01	633.90	636.81	624.70	609.70	17.90	2.43	20.33	15.54	618.36	No	
MW-23	01/22/02	633.90	636.81	624.70	609.70	17.89	2.01	19.90	15.43	618.47	No	
MW-23	02/26/02	633.90	636.81	624.70	609.70	18.32	2.89	21.21	16.06	617.84	No	
MW-23	03/20/02	633.90	636.81	624.70	609.70	18.45	3.10	21.55	16.24	617.66	No	
MW-23	04/24/02	633.90	636.81	624.70	609.70	17.33	2.73	20.06	15.04	618.86	No	
MW-23	05/15/02	633.90	636.81	624.70	609.70	16.47	2.99	19.46	14.24	619.66	No	
MW-23	06/27/02	633.90	636.81	624.70	609.70	16.97	2.52	19.49	14.63	619.27	No	
MW-23	07/25/02	633.90	636.81	624.70	609.70	17.23	1.94	19.17	14.76	619.14	No	
MW-23	08/20/02	633.90	636.81	624.70	609.70	17.44	1.95	19.39	14.97	618.93	No	
MW-23	09/30/02	633.90	636.81	624.70	609.70	16.65	2.05	18.70	14.20	619.70	No	
MW-23	11/05/02	633.90	636.81	624.70	609.70	15.29	4.37	19.66	13.37	620.53	No	
MW-23	12/23/02	633.90	636.81	624.70	609.70	17.69	1.78	19.47	15.18	618.72	No	
MW-23	01/28/03	633.90	636.81	624.70	609.70	18.18	1.94	20.12	15.71	618.19	No	
MW-23	02/19/03	633.90	636.81	624.70	609.70	18.31	2.64	20.95	16.00	617.90	No	
MW-23	04/17/03	633.90	636.81	624.70	609.70	18.63	3.61	22.24	16.54	617.36	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	05/15/03	633.90	636.81	624.70	609.70	18.42	3.58	22.00	16.32	617.58	No	
MW-23	06/10/03	633.90	636.81	624.70	609.70	18.10	2.32	20.42	15.71	618.19	No	
MW-23	10/23/03	633.90	636.81	624.70	609.70	18.46	3.32	21.78	16.30	617.60	No	
MW-23	12/03/03	633.90	636.81	624.70	609.70	18.58	3.58	22.16	16.48	617.42	No	
MW-23	04/19/04	635.07	636.91	624.70	609.70	18.89	3.75	22.64	17.90	617.17	No	
MW-23	07/28/04	635.07	636.91	624.70	609.70	17.95	2.15	20.10	16.60	618.47	No	
MW-23	11/15/04	635.07	636.91	624.70	609.70	16.31	3.23	19.54	15.20	619.87	No	
MW-23	04/18/05	635.07	636.91	624.70	609.70	16.59	3.89	20.48	15.63	619.44	No	
MW-23	09/09/05	635.07	636.91	624.70	609.70	17.85	1.40	19.25	16.33	618.74	No	
MW-23	10/11/05	635.07	636.91	624.70	609.70	16.07	4.22	20.29	15.18	619.89	No	
MW-23	05/23/06	635.07	636.91	624.70	609.70	15.63	2.66	18.29	14.39	620.68	No	
MW-23	10/16/06	635.07	636.91	624.70	609.70	17.59	1.53	19.12	16.10	618.97	No	
MW-23	04/23/07	635.07	636.91	624.70	609.70	18.25	3.31	21.56	17.16	617.91	No	
MW-23	09/25/07	635.07	636.91	624.70	609.70	17.93	3.27	21.20	16.83	618.24	No	
MW-23	05/01/08	635.07	636.91	624.70	609.70	15.32	3.84	19.16	14.35	620.72	No	
MW-23	10/20/08	635.07	636.91	624.70	609.70	12.98	6.13	19.11	12.52	622.55	No	
MW-23	04/18/09	635.07	636.91	624.70	609.70	15.02	4.13	19.15	14.11	620.96	No	
MW-23	10/11/09	635.07	636.91	624.70	609.70	17.82	0.52	18.34	16.10	618.97	No	
MW-23	04/28/10	635.07	636.91	624.70	609.70	17.22	1.04	18.26	15.61	619.46	No	
MW-23	10/25/10	635.07	636.91	624.70	609.70	14.84	2.69	17.53	13.61	621.46	No	
MW-23	04/25/11	635.07	636.91	624.70	609.70	15.62	2.62	18.24	14.37	620.70	No	
MW-23	08/03/11	635.07	636.91	624.70	609.70	14.29	3.38	17.67	13.21	621.86	No	
MW-23	10/10/11	635.07	636.91	624.70	609.70	16.41	1.13	17.54	14.83	620.24	No	
MW-23	01/04/12	635.07	636.91	624.70	609.70	17.95	0.51	18.46	16.23	618.84	No	
MW-23	04/05/12	635.07	636.91	624.70	609.70	18.21	2.08	20.29	16.84	618.23	No	Spill Buddy Before Reading
MW-23	04/05/12	635.07	636.91	624.70	609.70	19.55	0.05	19.60	17.72	617.35	No	Spill Buddy After Reading
MW-23	04/16/12	635.07	636.91	624.70	609.70	17.88	1.73	19.61	16.43	618.64	No	
MW-23	06/26/12	635.07	636.91	624.70	609.70	14.11	3.82	17.93	13.13	621.94	No	
MW-23	07/11/12	635.07	636.91	624.70	609.70	13.95	3.90	17.85	12.99	622.08	No	Spill Buddy Before Reading
MW-23	07/11/12	635.07	636.91	624.70	609.70	17.00	0.23	17.23	15.21	619.86	No	Spill Buddy After Reading
MW-23	08/09/12	635.07	636.91	624.70	609.70	16.72	0.98	17.70	15.10	619.97	No	Spill Buddy Before Reading
MW-23	08/09/12	635.07	636.91	624.70	609.70	17.40	0.15	17.55	15.59	619.48	No	Spill Buddy After Reading
MW-23	09/29/12	635.07	636.91	624.70	609.70	17.95	0.50	18.45	16.22	618.85	No	Spill buddy not working
MW-23	09/30/12	635.07	636.91	624.70	609.70	17.88	0.50	18.38	16.15	618.92	No	
MW-23	11/17/12	635.07	636.91	624.70	609.70	18.18	1.35	19.53	16.64	618.43	No	
MW-23	03/25/13	635.07	636.91	624.70	609.70	18.68	3.09	21.77	17.54	617.53	No	
MW-23	05/05/13	635.07	636.91	624.70	609.70	18.23	2.33	20.56	16.92	618.15	No	
MW-23	10/03/13	635.07	636.91	624.70	609.70	18.13	1.48	19.61	16.62	618.45	No	
MW-23	05/22/14	635.07	636.91	624.70	609.70	14.01	2.18	16.19	12.66	622.41	No	
MW-23	10/31/14	635.07	636.91	624.70	609.70	15.17	3.74	18.91	14.17	620.90	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	05/06/15	635.07	636.91	624.70	609.70	17.86	1.04	18.90	16.25	618.82	No	
MW-23	10/05/15	635.07	636.91	624.70	609.70	13.50	5.10	18.60	12.81	622.26	No	
MW-23	05/23/16	635.07	636.91	624.70	609.70	11.52	6.40	17.92	11.13	623.94	No	
MW-23	10/03/16	635.07	636.91	624.70	609.70	13.55	4.30	17.85	12.68	622.39	No	
MW-23	06/14/17	635.07	636.91	624.70	609.70	11.45	6.51	17.96	11.08	623.99	No	
MW-23	06/21/17	635.07	636.91	624.70	609.70	12.22	5.72	17.94	11.67	623.40	No	
MW-23	06/22/17	635.07	636.91	624.70	609.70	12.10	5.80	17.90	11.57	623.50	No	
MW-23	06/23/17	635.07	636.91	624.70	609.70	13.06	2.19	15.25	11.71	623.36	No	
MW-23	10/26/17	635.07	636.91	624.70	609.70	9.42	8.29	17.71	9.45	625.62	Yes	
MW-24	06/30/89	636.10	638.42	625.37	610.37	19.80	5.40	25.20	18.70	617.40	No	
MW-24	07/12/89	636.10	638.42	625.37	610.37	20.39	4.97	25.36	19.19	616.91	No	
MW-24	07/26/89	636.10	638.42	625.37	610.37	20.40	4.83	25.23	19.17	616.93	No	
MW-24	07/27/89	636.10	638.42	625.37	610.37	20.58	4.69	25.27	19.32	616.78	No	
MW-24	09/03/89	636.10	638.42	625.37	610.37	20.81	4.42	25.23	19.49	616.61	No	
MW-24	11/16/89	636.10	638.42	625.37	610.37	20.83	4.52	25.35	19.53	616.57	No	
MW-24	11/29/89	636.10	638.42	625.37	610.37	20.73	4.60	25.33	19.45	616.65	No	
MW-24	12/01/89	636.10	638.42	625.37	610.37	21.18	4.11	25.29	19.79	616.31	No	
MW-24	12/02/89	636.10	638.42	625.37	610.37	21.27	4.05	25.32	19.86	616.24	No	
MW-24	05/04/90	636.10	638.42	625.37	610.37	21.81	3.43	25.24	20.26	615.84	No	
MW-24	06/01/90	636.10	638.42	625.37	610.37	21.05	4.20	25.25	19.68	616.42	No	
MW-24	06/19/90	636.10	638.42	625.37	610.37	20.98	4.22	25.20	19.61	616.49	No	
MW-24	06/27/90	636.10	638.42	625.37	610.37	21.36	3.78	25.14	19.89	616.21	No	
MW-24	07/05/90	636.10	638.42	625.37	610.37	21.80	3.43	25.23	20.25	615.85	No	
MW-24	07/13/90	636.10	638.42	625.37	610.37	21.55	3.63	25.18	20.05	616.05	No	
MW-24	07/17/90	636.10	638.42	625.37	610.37	21.22	3.93	25.15	19.79	616.31	No	
MW-24	07/25/90	636.10	638.42	625.37	610.37	21.70	3.48	25.18	20.17	615.93	No	
MW-24	08/09/90	636.10	638.42	625.37	610.37	21.46	3.74	25.20	19.98	616.12	No	
MW-24	08/27/90	636.10	638.42	625.37	610.37	21.39	3.78	25.17	19.92	616.18	No	
MW-24	09/06/90	636.10	638.42	625.37	610.37	20.86	4.26	25.12	19.50	616.60	No	
MW-24	01/04/91	636.10	638.42	625.37	610.37	20.47	4.80	25.27	19.23	616.87	No	
MW-24	01/30/91	636.10	638.42	625.37	610.37	20.78	4.47	25.25	19.47	616.63	No	
MW-24	04/24/91	636.10	638.42	625.37	610.37	20.72	4.43	25.15	19.40	616.70	No	
MW-24	07/09/91	636.10	638.42	625.37	610.37	17.27	7.66	24.93	16.68	619.42	No	
MW-24	10/08/91	636.10	638.42	625.37	610.37	15.44	9.60	25.04	15.29	620.81	No	
MW-24	12/03/91	636.10	638.42	625.37	610.37	13.80	11.25	25.05	14.02	622.08	No	
MW-24	01/07/92	636.10	638.42	625.37	610.37	16.58	8.48	25.06	16.18	619.92	No	
MW-24	10/14/92	636.10	638.42	625.37	610.37	16.36	8.78	25.14	16.02	620.08	No	
MW-24	06/25/93	636.10	638.42	625.37	610.37	12.73	12.16	24.89	13.16	622.94	No	
MW-24	10/28/93	636.10	638.42	625.37	610.37	17.58	7.64	25.22	16.99	619.11	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-24	01/29/94	636.10	638.42	625.37	610.37	18.88	6.36	25.24	18.00	618.10	No	
MW-24	04/27/94	636.10	638.42	625.37	610.37	17.99	7.01	25.00	17.25	618.85	No	
MW-24	07/21/94	636.10	638.42	625.37	610.37	16.35	8.70	25.05	16.00	620.10	No	
MW-24	10/25/94	636.10	638.42	625.37	610.37	16.96	8.13	25.09	16.48	619.62	No	
MW-24	02/01/95	636.10	638.42	625.37	610.37	19.33	5.77	25.10	18.31	617.79	No	
MW-24	04/04/95	636.10	638.42	625.37	610.37	20.32	4.73	25.05	19.07	617.03	No	
MW-24	07/12/95	636.10	638.42	625.37	610.37	18.84	6.11	24.95	17.90	618.20	No	
MW-24	10/08/96	636.10	638.42	625.37	610.37	15.34	9.64	24.98	15.20	620.90	No	
MW-24	03/13/97	636.10	638.42	625.37	610.37	19.60	5.45	25.05	18.51	617.59	No	
MW-24	04/29/97	636.10	638.42	625.37	610.37	13.65	11.17	24.82	13.85	622.25	No	
MW-24	06/10/97	636.10	638.42	625.37	610.37	15.85	8.90	24.75	15.54	620.56	No	FP bailed 5/22/97
MW-24	11/03/98	636.10	638.42	625.37	610.37	19.74	5.30	25.04	18.62	617.48	No	
MW-24	03/02/99	636.10	638.42	625.37	610.37	20.24	4.86	25.10	19.02	617.08	No	
MW-24	10/07/99	636.10	638.42	625.37	610.37	15.32	9.35	24.67	15.11	620.99	No	
MW-24	11/09/99	636.10	638.42	625.37	610.37	14.97	9.66	24.63	14.83	621.27	No	bailed 6 gal. FP
MW-24	12/21/99	636.10	638.42	625.37	610.37	17.30	7.45	24.75	16.66	619.44	No	bailed 10 gal. FP
MW-24	01/27/00	636.10	638.42	625.37	610.37	19.20	5.43	24.63	18.11	617.99	No	bailed 1 gal. FP
MW-24	02/24/00	636.10	638.42	625.37	610.37	19.71	4.91	24.62	18.50	617.60	No	bailed 5 gal. FP
MW-24	03/31/00	636.10	638.42	625.37	610.37	19.36	4.99	24.35	18.17	617.93	No	bailed 4 gal. FP
MW-24	04/20/00	636.10	638.42	625.37	610.37	18.02	9.84	27.86	17.92	618.18	No	bailed 6.75 gal. FP
MW-24	04/26/00	636.10	638.42	625.37	610.37	18.77	5.55	24.32	17.70	618.40	No	bailed 4 gal. FP
MW-24	05/31/00	636.10	638.42	625.37	610.37	18.90	5.42	24.32	17.80	618.30	No	bailed 6 gal. FP
MW-24	06/29/00	636.10	638.42	625.37	610.37	18.55	5.40	23.95	17.45	618.65	No	bailed 2.5 gal. FP
MW-24	07/26/00	636.10	638.42	625.37	610.37	18.98	5.13	24.11	17.82	618.28	No	bailed 3 gal. FP
MW-24	08/18/00	636.10	638.42	625.37	610.37	19.21	5.16	24.37	18.06	618.04	No	bailed 4 gal. FP
MW-24	09/27/00	636.10	638.42	625.37	610.37	20.08	4.50	24.58	18.78	617.32	No	bailed 4 gal. FP
MW-24	10/11/00	636.10	638.42	625.37	610.37	20.37	3.07	23.44	18.74	617.36	No	bailed 2.5 gal. FP
MW-24	11/17/00	636.10	638.42	625.37	610.37	19.86	3.55	23.41	18.34	617.76	No	bailed 4 gal. FP
MW-24	12/12/00	636.10	638.42	625.37	610.37	20.00	1.52	21.52	18.02	618.08	No	bailed 2 gal. FP
MW-24	01/18/01	636.10	638.42	625.37	610.37	20.39	1.60	21.99	18.43	617.67	No	bailed 1.75 gal. FP
MW-24	04/24/01	636.10	638.42	625.37	610.37	20.00	3.40	23.40	18.45	617.65	No	product abated using vactruck
MW-24	05/23/01	636.10	638.42	625.37	610.37	18.61	4.79	23.40	17.37	618.73	No	no product bailed
MW-24	06/19/01	636.10	638.42	625.37	610.37	18.55	4.23	22.78	17.19	618.91	No	
MW-24	07/26/01	636.10	638.42	625.37	610.37	19.61	4.22	23.83	18.24	617.86	No	
MW-24	08/31/01	636.10	638.42	625.37	610.37	19.67	4.76	24.43	18.43	617.67	No	
MW-24	09/26/01	636.10	638.42	625.37	610.37	19.93	4.36	24.29	18.59	617.51	No	
MW-24	10/24/01	636.10	638.42	625.37	610.37	19.77	4.55	24.32	18.48	617.62	No	
MW-24	12/20/01	636.10	638.42	625.37	610.37	20.10	4.52	24.62	18.80	617.30	No	
MW-24	01/22/02	636.10	638.42	625.37	610.37	20.43	4.20	24.63	19.06	617.04	No	
MW-24	02/26/02	636.10	638.42	625.37	610.37	21.19	3.50	24.69	19.66	616.44	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-24	03/20/02	636.10	638.42	625.37	610.37	21.45	3.35	24.80	19.89	616.21	No	
MW-24	04/24/02	636.10	638.42	625.37	610.37	20.12	4.23	24.35	18.76	617.34	No	
MW-24	05/15/02	636.10	638.42	625.37	610.37	19.32	4.72	24.04	18.07	618.03	No	
MW-24	06/27/02	636.10	638.42	625.37	610.37	19.56	4.79	24.35	18.32	617.78	No	
MW-24	07/25/02	636.10	638.42	625.37	610.37	19.49	4.85	24.34	18.27	617.83	No	
MW-24	08/20/02	636.10	638.42	625.37	610.37	19.46	4.83	24.29	18.23	617.87	No	
MW-24	09/30/02	636.10	638.42	625.37	610.37	18.52	5.63	24.15	17.47	618.63	No	
MW-24	11/05/02	636.10	638.42	625.37	610.37	18.08	6.32	24.40	17.19	618.91	No	
MW-24	12/23/02	636.10	638.42	625.37	610.37	19.89	5.06	24.95	18.71	617.39	No	
MW-24	01/28/03	636.10	638.42	625.37	610.37	20.61	4.26	24.87	19.25	616.85	No	
MW-24	02/19/03	636.10	638.42	625.37	610.37	21.03	3.85	24.88	19.58	616.52	No	
MW-24	04/17/03	636.10	638.42	625.37	610.37	21.81	3.03	24.84	20.17	615.93	No	
MW-24	05/15/03	636.10	638.42	625.37	610.37	21.71	3.13	24.84	20.10	616.00	No	
MW-24	06/10/03	636.10	638.42	625.37	610.37	21.04	3.62	24.66	19.54	616.56	No	
MW-24	10/23/03	636.10	638.42	625.37	610.37	21.35	3.42	24.77	19.80	616.30	No	
MW-24	12/03/03	636.10	638.42	625.37	610.37	21.55	3.30	24.85	19.98	616.12	No	
MW-24	04/19/04	636.19	638.55	625.37	610.37	22.27	2.77	25.04	20.54	615.65	No	
MW-24	07/28/04	636.19	638.55	625.37	610.37	20.63	3.91	24.54	19.15	617.04	No	
MW-24	11/15/04	636.19	638.55	625.37	610.37	19.29	4.86	24.15	18.03	618.16	No	
MW-24	04/18/05	636.19	638.55	625.37	610.37	19.72	4.74	24.46	18.43	617.76	No	
MW-24	09/09/05	636.19	638.55	625.37	610.37	20.02	4.46	24.48	18.67	617.52	No	
MW-24	10/11/05	636.19	638.55	625.37	610.37	19.21	4.81	24.02	17.94	618.25	No	
MW-24	05/23/06	636.19	638.55	625.37	610.37	17.86	6.35	24.21	16.93	619.26	No	
MW-24	10/16/06	636.19	638.55	625.37	610.37	19.96	4.73	24.69	18.67	617.52	No	
MW-24	04/23/07	636.19	638.55	625.37	610.37	21.44	3.48	24.92	19.87	616.32	No	
MW-24	09/25/07	636.19	638.55	625.37	610.37	21.38	3.24	24.62	19.75	616.44	No	
MW-24	05/01/08	636.19	638.55	625.37	610.37	18.94	5.07	24.01	17.73	618.46	No	
MW-24	10/20/08	636.19	638.55	625.37	610.37	16.85	7.24	24.09	16.13	620.06	No	
MW-24	04/18/09	636.19	638.55	625.37	610.37	18.80	5.09	23.89	17.59	618.60	No	
MW-24	10/11/09	636.19	638.55	625.37	610.37	19.74	4.70	24.44	18.44	617.75	No	
MW-24	04/28/10	636.19	638.55	625.37	610.37	19.89	4.25	24.14	18.49	617.70	No	
MW-24	10/25/10	636.19	638.55	625.37	610.37	16.84	7.20	24.04	16.11	620.08	No	
MW-24	04/25/11	636.19	638.55	625.37	610.37	18.52	2.95	21.47	16.83	619.36	No	
MW-24	08/02/11	636.19	638.55	625.37	610.37	15.96	7.63	23.59	15.32	620.87	No	
MW-24	10/10/11	636.19	638.55	625.37	610.37	18.35	5.59	23.94	17.25	618.94	No	
MW-24	01/04/12	636.19	638.55	625.37	610.37	19.97	4.61	24.58	18.65	617.54	No	
MW-24	04/05/12	636.19	638.55	625.37	610.37	21.20	3.44	24.64	19.62	616.57	No	Spill Buddy Before Reading
MW-24	04/05/12	636.19	638.55	625.37	610.37	21.94	0.76	22.70	19.75	616.44	No	Spill Buddy After Reading
MW-24	04/16/12	636.19	638.55	625.37	610.37	21.23	3.25	24.48	19.60	616.59	No	
MW-24	06/18/12	636.19	638.55	625.37	610.37	18.23	5.33	23.56	17.07	619.12	No	Spill Buddy Before Reading

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-24	06/18/12	636.19	638.55	625.37	610.37	19.47	0.89	20.36	17.31	618.88	No	Spill Buddy After Reading
MW-24	06/26/12	636.19	638.55	625.37	610.37	17.59	4.80	22.39	16.31	619.88	No	
MW-24	07/11/12	636.19	638.55	625.37	610.37	18.07	5.08	23.15	16.86	619.33	No	Spill Buddy Before Reading
MW-24	07/11/12	636.19	638.55	625.37	610.37	19.45	0.34	19.79	17.17	619.02	No	Spill Buddy After Reading
MW-24	08/09/12	636.19	638.55	625.37	610.37	18.95	4.28	23.23	17.56	618.63	No	Spill Buddy Before Reading
MW-24	08/09/12	636.19	638.55	625.37	610.37	20.07	0.64	20.71	17.85	618.34	No	Spill Buddy After Reading
MW-24	09/29/12	636.19	638.55	625.37	610.37	20.32	3.32	23.64	18.71	617.48	No	Spill Buddy Before Reading
MW-24	09/29/12	636.19	638.55	625.37	610.37	21.15	0.37	21.52	18.87	617.32	No	Spill Buddy After Reading
MW-24	09/30/12	636.19	638.55	625.37	610.37	20.49	2.37	22.86	18.67	617.52	No	
MW-24	11/21/12	636.19	638.55	625.37	610.37	20.60	3.15	23.75	18.95	617.24	No	
MW-24	12/17/12	636.19	638.55	625.37	610.37	20.84	3.21	24.05	19.21	616.98	No	
MW-24	03/25/13	636.19	638.55	625.37	610.37	22.22	2.10	24.32	20.33	615.86	No	
MW-24	05/05/13	636.19	638.55	625.37	610.37	21.44	2.54	23.98	19.65	616.54	No	
MW-24	10/03/13	636.19	638.55	625.37	610.37	20.84	3.17	24.01	19.20	616.99	No	
MW-24	05/22/14	636.19	638.55	625.37	610.37	18.61	4.32	22.93	17.23	618.96	No	
MW-24	10/31/14	636.19	638.55	625.37	610.37	18.51	4.50	23.01	17.17	619.02	No	
MW-24	05/06/15	636.19	638.55	625.37	610.37	20.75	2.88	23.63	19.04	617.15	No	
MW-24	10/05/15	636.19	638.55	625.37	610.37	17.90	5.20	23.10	16.71	619.48	No	
MW-24	05/23/16	636.19	638.55	625.37	610.37	14.63	9.36	23.99	14.38	621.81	No	
MW-24	10/03/16	636.19	638.55	625.37	610.37	16.44	7.02	23.46	15.67	620.52	No	
MW-24	06/29/17	636.19	638.55	625.37	610.37	15.97	7.28	23.25	15.25	620.94	No	
MW-25	06/30/89	634.90	637.59	617.50	602.50	20.35	1.15	21.50	17.92	616.98	No	
MW-25	07/12/89	634.90	637.59	617.50	602.50	20.85	1.63	22.48	18.53	616.37	No	
MW-25	07/26/89	634.90	637.59	617.50	602.50	20.83	1.97	22.80	18.58	616.32	No	
MW-25	07/27/89	634.90	637.59	617.50	602.50	20.85	2.24	23.09	18.67	616.23	No	
MW-25	09/03/89	634.90	637.59	617.50	602.50	20.78	3.52	24.30	18.89	616.01	No	
MW-25	11/16/89	634.90	637.59	617.50	602.50	20.72	4.04	24.76	18.94	615.96	No	
MW-25	11/29/89	634.90	637.59	617.50	602.50	20.87	3.56	24.43	18.98	615.92	No	
MW-25	12/01/89	634.90	637.59	617.50	602.50	21.33	2.18	23.51	19.13	615.77	No	
MW-25	12/02/89	634.90	637.59	617.50	602.50	21.54	1.17	22.71	19.11	615.79	No	
MW-25	05/04/90	634.90	637.59	617.50	602.50	21.48	5.67	27.15	20.07	614.83	No	
MW-25	06/01/90	634.90	637.59	617.50	602.50	21.20	3.70	24.90	19.35	615.55	No	
MW-25	06/19/90	634.90	637.59	617.50	602.50	20.94	3.88	24.82	19.13	615.77	No	
MW-25	06/27/90	634.90	637.59	617.50	602.50	21.09	3.61	24.70	19.22	615.68	No	
MW-25	07/05/90	634.90	637.59	617.50	602.50	21.23	3.85	25.08	19.41	615.49	No	
MW-25	07/13/90	634.90	637.59	617.50	602.50	21.30	3.37	24.67	19.37	615.53	No	
MW-25	07/17/90	634.90	637.59	617.50	602.50	21.08	3.43	24.51	19.16	615.74	No	
MW-25	07/25/90	634.90	637.59	617.50	602.50	21.27	3.65	24.92	19.40	615.50	No	
MW-25	08/09/90	634.90	637.59	617.50	602.50	21.13	3.75	24.88	19.29	615.61	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-25	08/27/90	634.90	637.59	617.50	602.50	20.80	4.96	25.76	19.23	615.67	No	
MW-25	09/06/90	634.90	637.59	617.50	602.50	20.65	4.16	24.81	18.90	616.00	No	
MW-25	01/04/91	634.90	637.59	617.50	602.50	20.68	2.87	23.55	18.64	616.26	No	
MW-25	01/30/91	634.90	637.59	617.50	602.50	20.93	2.76	23.69	18.86	616.04	No	
MW-25	04/24/91	634.90	637.59	617.50	602.50	20.40	4.81	25.21	18.80	616.10	No	
MW-25	07/09/91	634.90	637.59	617.50	602.50	17.42	5.97	23.39	16.08	618.82	Yes	
MW-25	10/08/91	634.90	637.59	617.50	602.50	16.36	4.90	21.26	14.78	620.12	Yes	
MW-25	01/07/92	634.90	637.59	617.50	602.50	17.50	3.63	21.13	15.63	619.27	Yes	
MW-25	10/14/92	634.90	637.59	617.50	602.50	17.27	3.72	20.99	15.42	619.48	Yes	
MW-25	06/25/93	634.90	637.59	617.50	602.50	13.16	7.78	20.94	12.23	622.67	Yes	
MW-25	10/28/93	634.90	637.59	617.50	602.50	18.52	2.50	21.02	16.39	618.51	Yes	
MW-25	01/29/94	634.90	637.59	617.50	602.50	19.58	1.76	21.34	17.29	617.61	Yes	
MW-25	04/27/94	634.90	637.59	617.50	602.50	18.41	2.89	21.30	16.37	618.53	Yes	
MW-25	07/21/94	634.90	637.59	617.50	602.50	17.32	3.63	20.95	15.45	619.45	Yes	
MW-25	10/25/94	634.90	637.59	617.50	602.50	17.82	3.42	21.24	15.90	619.00	Yes	
MW-25	02/01/95	634.90	637.59	617.50	602.50	20.20	1.01	21.21	17.74	617.16	No	
MW-25	04/04/95	634.90	637.59	617.50	602.50	20.50	0.73	21.23	17.97	616.93	No	
MW-25	07/12/95	634.90	637.59	617.50	602.50	18.21	3.39	21.60	16.29	618.61	Yes	
MW-25	03/13/96	634.90	637.59	617.50	602.50	20.48	0.82	21.30	17.98	616.92	No	
MW-25	10/08/96	634.90	637.59	617.50	602.50	16.65	3.37	20.02	14.72	620.18	Yes	
MW-25	04/29/97	634.90	637.59	617.50	602.50	14.40	6.12	20.52	13.09	621.81	Yes	
MW-25	06/10/97	634.90	637.59	617.50	602.50	17.33	1.28	18.61	14.93	619.97	Yes	FP bailed 5/22/97
MW-25	11/03/98	634.90	637.59	617.50	602.50	20.24	0.70	20.94	17.71	617.19	No	
MW-25	03/02/99	634.90	637.59	617.50	602.50	20.89	0.30	21.19	18.27	616.63	No	
MW-25	10/07/99	634.90	637.59	617.50	602.50	16.87	0.66	17.53	14.33	620.57	Yes	
MW-25	11/09/99	634.90	637.59	617.50	602.50	16.70	0.80	17.50	14.19	620.71	Yes	bailed 0.25 gal. FP
MW-25	12/21/99	634.90	637.59	617.50	602.50	18.58	0.33	18.91	15.96	618.94	Yes	bailed 0.25 gal. FP
MW-25	01/27/00	634.90	637.59	617.50	602.50	19.19	1.05	20.24	16.74	618.16	Yes	bailed 0.2 gal. FP
MW-25	02/24/00	634.90	637.59	617.50	602.50	20.49	0.26	20.75	17.86	617.04	No	bailed <0.1 gal. FP
MW-25	03/31/00	634.90	637.59	617.50	602.50	20.00	0.15	20.15	17.34	617.56	Yes	No product bailed
MW-25	04/20/00	634.90	637.59	617.50	602.50	18.81	1.28	20.09	16.41	618.49	Yes	bailed 0.25 gal. FP
MW-25	04/26/00	634.90	637.59	617.50	602.50	19.68	0.06	19.74	17.00	617.90	Yes	No product bailed
MW-25	05/31/00	634.90	637.59	617.50	602.50	19.64	0.12	19.76	16.98	617.92	Yes	bailed 0.125 gal. FP
MW-25	06/29/00	634.90	637.59	617.50	602.50	19.33	0.10	19.43	16.66	618.24	Yes	bailed 0.05 gal. FP
MW-25	07/26/00	634.90	637.59	617.50	602.50	18.84	0.86	19.70	16.34	618.56	Yes	bailed <0.1 gal. FP
MW-25	08/18/00	634.90	637.59	617.50	602.50	19.93	0.06	19.99	17.25	617.65	Yes	No product bailed
MW-25	09/27/00	634.90	637.59	617.50	602.50	20.51	0.20	20.71	17.87	617.03	No	bailed <0.1 gal. FP
MW-25	10/11/00	634.90	637.59	617.50	602.50	NP	0.00	19.62	16.93	617.97	Yes	No product bailed
MW-25	11/17/00	634.90	637.59	617.50	602.50	19.01	0.05	19.06	16.33	618.57	Yes	No product bailed
MW-25	12/12/00	634.90	637.59	617.50	602.50	19.20	0.01	19.21	16.51	618.39	Yes	No product bailed

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-25	01/18/01	634.90	637.59	617.50	602.50	19.68	0.02	19.70	16.99	617.91	Yes	No product bailed
MW-25	04/24/01	634.90	637.59	617.50	602.50	NP	0.00	19.68	16.99	617.91	Yes	No product bailed
MW-25	05/23/01	634.90	637.59	617.50	602.50	NP	0.00	18.48	15.79	619.11	Yes	No product bailed
MW-25	06/19/01	634.90	637.59	617.50	602.50	NP	0.00	18.66	15.97	618.93	Yes	
MW-25	07/26/01	634.90	637.59	617.50	602.50	19.94	0.03	19.97	17.26	617.64	Yes	
MW-25	08/31/01	634.90	637.59	617.50	602.50	20.15	0.04	20.19	17.47	617.43	No	
MW-25	09/26/01	634.90	637.59	617.50	602.50	NP	0.00	20.52	17.83	617.07	No	
MW-25	10/24/01	634.90	637.59	617.50	602.50	20.40	0.00	20.40	17.71	617.19	No	
MW-25	12/20/01	634.90	637.59	617.50	602.50	20.48	0.07	20.55	17.81	617.09	No	
MW-25	01/22/02	634.90	637.59	617.50	602.50	NP	0.00	21.03	18.34	616.56	No	
MW-25	02/26/02	634.90	637.59	617.50	602.50	21.39	0.01	21.40	18.70	616.20	No	
MW-25	03/20/02	634.90	637.59	617.50	602.50	NP	0.00	21.44	18.75	616.15	No	
MW-25	04/24/02	635.90	637.59	617.50	602.50	20.43	0.01	20.44	18.74	617.16	No	
MW-25	05/15/02	635.90	637.59	617.50	602.50	NP	0.00	19.36	17.67	618.23	Yes	
MW-25	06/27/02	635.90	637.59	617.50	602.50	NP	0.00	19.56	17.87	618.03	Yes	
MW-25	07/25/02	635.90	637.59	617.50	602.50	NP	0.00	19.98	18.29	617.61	Yes	
MW-25	08/20/02	635.90	637.59	617.50	602.50	NP	0.00	19.57	17.88	618.02	Yes	
MW-25	09/30/02	635.90	637.59	617.50	602.50	NP	0.00	19.18	17.49	618.41	Yes	
MW-25	11/05/02	635.90	637.59	617.50	602.50	NP	0.00	18.87	17.18	618.72	Yes	
MW-25	12/23/02	635.90	637.59	617.50	602.50	20.40	0.03	20.43	18.72	617.18	No	
MW-25	01/28/03	635.90	637.59	617.50	602.50	21.07	0.01	21.08	19.38	616.52	No	
MW-25	02/19/03	635.90	637.59	617.50	602.50	NP	0.00	21.41	19.72	616.18	No	
MW-25	04/17/03	635.90	637.59	617.50	602.50	21.91	0.32	22.23	20.29	615.61	No	
MW-25	05/15/03	635.90	637.59	617.50	602.50	21.60	0.10	21.70	19.93	615.97	No	
MW-25	06/10/03	635.90	637.59	617.50	602.50	21.20	0.14	21.34	19.54	616.36	No	
MW-25	10/23/03	635.90	637.59	617.50	602.50	21.49	0.69	22.18	19.96	615.94	No	
MW-25	12/03/03	635.90	637.59	617.50	602.50	21.51	2.01	23.52	20.27	615.63	No	
MW-25	04/19/04	635.42	637.70	617.50	602.50	21.29	4.58	25.87	20.04	615.38	No	
MW-25	07/28/04	635.42	637.70	617.50	602.50	20.44	2.63	23.07	18.75	616.67	No	
MW-25	11/15/04	635.42	637.70	617.50	602.50	19.10	2.86	21.96	17.47	617.95	Yes	
MW-25	04/18/05	635.42	637.70	617.50	602.50	19.82	2.16	21.98	18.03	617.39	No	
MW-25	09/09/05	635.42	637.70	617.50	602.50	20.12	2.06	22.18	18.31	617.11	No	
MW-25	10/11/05	635.42	637.70	617.50	602.50	18.89	2.72	21.61	17.22	618.20	Yes	
MW-25	05/23/06	635.42	637.70	617.50	602.50	17.99	3.57	21.56	16.52	618.90	Yes	
MW-25	10/16/06	635.42	637.70	617.50	602.50	20.16	2.12	22.28	18.36	617.06	No	
MW-25	04/23/07	635.42	637.70	617.50	602.50	21.05	0.98	22.03	18.99	616.43	No	
MW-25	09/25/07	635.42	637.70	617.50	602.50	20.98	0.74	21.72	18.87	616.55	No	
MW-25	05/01/08	635.42	637.70	617.50	602.50	19.04	2.49	21.53	17.32	618.10	Yes	
MW-25	10/20/08	635.42	637.70	617.50	602.50	16.98	4.55	21.53	15.73	619.69	Yes	
MW-25	04/18/09	635.42	637.70	617.50	602.50	18.92	2.71	21.63	17.25	618.17	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-25	10/11/09	635.42	637.70	617.50	602.50	19.75	1.99	21.74	17.92	617.50	Yes	
MW-25	04/28/10	635.42	637.70	617.50	602.50	20.03	1.75	21.78	18.15	617.27	No	
MW-25	10/25/10	635.42	637.70	617.50	602.50	16.42	5.10	21.52	15.29	620.13	Yes	
MW-25	04/25/11	635.42	637.70	617.50	602.50	18.41	5.54	23.95	17.38	618.04	Yes	
MW-25	08/02/11	635.42	637.70	617.50	602.50	16.07	5.16	21.23	14.96	620.46	Yes	
MW-25	10/10/11	635.42	637.70	617.50	602.50	18.82	2.12	20.94	17.02	618.40	Yes	
MW-25	01/04/12	635.42	637.70	617.50	602.50	20.53	0.71	21.24	18.41	617.01	No	
MW-25	04/05/12	635.42	637.70	617.50	602.50	21.43	0.30	21.73	19.22	616.20	No	
MW-25	04/16/12	635.42	637.70	617.50	602.50	21.41	0.12	21.53	19.16	616.26	No	
MW-25	06/18/12	635.42	637.70	617.50	602.50	18.75	2.10	20.85	16.94	618.48	Yes	Spill Buddy Before Reading
MW-25	06/18/12	635.42	637.70	617.50	602.50	19.15	0.68	19.83	17.02	618.40	Yes	Spill Buddy After Reading
MW-25	06/26/12	635.42	637.70	617.50	602.50	17.82	1.83	19.65	15.95	619.47	Yes	
MW-25	07/11/12	635.42	637.70	617.50	602.50	18.42	1.68	20.10	16.52	618.90	Yes	Spill Buddy Before Reading
MW-25	07/11/12	635.42	637.70	617.50	602.50	18.88	0.40	19.28	16.69	618.73	Yes	Spill Buddy After Reading
MW-25	08/09/12	635.42	637.70	617.50	602.50	19.26	1.00	20.26	17.21	618.21	Yes	Spill Buddy Before Reading
MW-25	08/09/12	635.42	637.70	617.50	602.50	19.64	0.06	19.70	17.37	618.05	Yes	Spill Buddy After Reading
MW-25	09/29/12	635.42	637.70	617.50	602.50	20.48	0.47	20.95	18.31	617.11	No	Spill Buddy Before Reading
MW-25	09/29/12	635.42	637.70	617.50	602.50	NP	0.00	20.64	18.36	617.06	No	Spill Buddy After Reading
MW-25	09/30/12	635.42	637.70	617.50	602.50	20.48	0.37	20.85	18.28	617.14	No	
MW-25	11/21/12	635.42	637.70	617.50	602.50	20.96	0.06	21.02	18.69	616.73	No	
MW-25	12/17/12	635.42	637.70	617.50	602.50	21.18	0.12	21.30	18.93	616.49	No	
MW-25	03/25/13	635.42	637.70	617.50	602.50	21.76	2.32	24.08	20.00	615.42	No	
MW-25	05/05/13	635.42	637.70	617.50	602.50	20.75	2.24	22.99	18.98	616.44	No	
MW-25	10/03/13	635.42	637.70	617.50	602.50	20.59	2.37	22.96	18.85	616.57	No	
MW-25	05/22/14	635.42	637.70	617.50	602.50	18.23	3.56	21.79	16.75	618.67	Yes	
MW-25	06/19/14	635.42	637.70	617.50	602.50	18.18	4.42	22.60	16.90	618.52	Yes	
MW-25	10/31/14	635.42	637.70	617.50	602.50	18.53	2.15	20.68	16.74	618.68	Yes	
MW-25	05/06/15	635.42	637.70	617.50	602.50	20.91	0.31	21.22	18.70	616.72	No	
MW-25	10/05/15	635.42	637.70	617.50	602.50	18.10	2.72	20.82	16.43	618.99	Yes	
MW-25	05/23/16	635.42	637.70	617.50	602.50	15.89	2.45	18.34	14.16	621.26	Yes	
MW-25	10/03/16	635.42	637.70	617.50	602.50	17.38	1.96	19.34	15.54	619.88	Yes	
MW-25	06/29/17	635.42	637.70	617.50	602.50	16.92	1.93	18.85	15.08	620.34	Yes	
MW-26	06/30/89	632.70	635.98	619.20	604.20	19.55	2.50	22.05	16.83	615.87	No	
MW-26	07/12/89	632.70	635.98	619.20	604.20	19.90	2.40	22.30	17.16	615.54	No	
MW-26	07/26/89	632.70	635.98	619.20	604.20	19.96	2.40	22.36	17.22	615.48	No	
MW-26	07/27/89	632.70	635.98	619.20	604.20	20.07	2.44	22.51	17.34	615.36	No	
MW-26	09/03/89	632.70	635.98	619.20	604.20	20.32	2.64	22.96	17.64	615.06	No	
MW-26	11/16/89	632.70	635.98	619.20	604.20	20.42	2.78	23.20	17.77	614.93	No	
MW-26	11/29/89	632.70	635.98	619.20	604.20	20.30	2.81	23.11	17.65	615.05	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	12/01/89	632.70	635.98	619.20	604.20	20.47	2.63	23.10	17.78	614.92	No	
MW-26	12/02/89	632.70	635.98	619.20	604.20	20.48	2.63	23.11	17.79	614.91	No	
MW-26	05/04/90	632.70	635.98	619.20	604.20	21.16	3.23	24.39	18.61	614.09	No	
MW-26	06/01/90	632.70	635.98	619.20	604.20	23.50	6.40	29.90	21.67	611.03	No	
MW-26	06/19/90	632.70	635.98	619.20	604.20	20.82	2.46	23.28	18.10	614.60	No	
MW-26	06/27/90	632.70	635.98	619.20	604.20	20.81	2.42	23.23	18.08	614.62	No	
MW-26	07/05/90	632.70	635.98	619.20	604.20	20.80	2.45	23.25	18.07	614.63	No	
MW-26	07/13/90	632.70	635.98	619.20	604.20	20.80	2.48	23.28	18.08	614.62	No	
MW-26	07/17/90	632.70	635.98	619.20	604.20	20.78	2.45	23.23	18.05	614.65	No	
MW-26	07/25/90	632.70	635.98	619.20	604.20	20.80	2.58	23.38	18.10	614.60	No	
MW-26	08/09/90	632.70	635.98	619.20	604.20	20.77	2.63	23.40	18.08	614.62	No	
MW-26	08/27/90	632.70	635.98	619.20	604.20	20.83	2.57	23.40	18.13	614.57	No	
MW-26	09/06/90	632.70	635.98	619.20	604.20	20.67	2.51	23.18	17.96	614.74	No	
MW-26	01/04/91	632.70	635.98	619.20	604.20	19.95	2.47	22.42	17.23	615.47	No	
MW-26	01/30/91	632.70	635.98	619.20	604.20	20.18	2.60	22.78	17.49	615.21	No	
MW-26	04/24/91	632.70	635.98	619.20	604.20	20.41	2.42	22.83	17.68	615.02	No	
MW-26	07/09/91	632.70	635.98	619.20	604.20	17.93	2.59	20.52	15.23	617.47	No	
MW-26	10/08/91	632.70	635.98	619.20	604.20	15.75	5.50	21.25	13.71	618.99	No	
MW-26	01/07/92	632.70	635.98	619.20	604.20	16.55	4.59	21.14	14.31	618.39	No	
MW-26	10/14/92	632.70	635.98	619.20	604.20	16.85	4.25	21.10	14.53	618.17	No	
MW-26	06/25/93	632.70	635.98	619.20	604.20	12.58	7.92	20.50	11.09	621.61	Yes	
MW-26	10/28/93	632.70	635.98	619.20	604.20	17.77	3.10	20.87	15.19	617.51	No	
MW-26	01/29/94	632.70	635.98	619.20	604.20	18.72	2.01	20.73	15.89	616.81	No	
MW-26	04/27/94	632.70	635.98	619.20	604.20	17.97	2.65	20.62	15.29	617.41	No	
MW-26	07/21/94	632.70	635.98	619.20	604.20	16.73	3.72	20.45	14.29	618.41	No	
MW-26	10/25/94	632.70	635.98	619.20	604.20	17.44	3.18	20.62	14.88	617.82	No	
MW-26	02/01/95	632.70	635.98	619.20	604.20	19.14	1.93	21.07	16.30	616.40	No	
MW-26	04/04/95	632.70	635.98	619.20	604.20	19.50	2.33	21.83	16.75	615.95	No	
MW-26	07/12/95	632.70	635.98	619.20	604.20	18.70	1.72	20.42	15.81	616.89	No	
MW-26	11/13/95	632.70	635.98	619.20	604.20	16.45	3.85	20.30	14.04	618.66	No	
MW-26	10/08/96	632.70	635.98	619.20	604.20	15.30	4.93	20.23	13.13	619.57	Yes	
MW-26	04/29/97	632.70	635.98	619.20	604.20	13.95	6.20	20.15	12.07	620.63	Yes	
MW-26	06/10/97	632.70	635.98	619.20	604.20	16.20	3.83	20.03	13.79	618.91	No	FP bailed 5/22/97
MW-26	11/03/98	632.70	635.98	619.20	604.20	19.49	2.26	21.75	16.72	615.98	No	
MW-26	03/04/99	632.70	635.98	619.20	604.20	19.56	2.34	21.90	16.81	615.89	No	
MW-26	10/07/99	632.70	635.98	619.20	604.20	15.10	4.95	20.05	12.94	619.76	Yes	
MW-26	11/09/99	632.70	635.98	619.20	604.20	14.80	5.38	20.18	12.74	619.96	Yes	bailed 4 gal. FP
MW-26	12/21/99	632.70	635.98	619.20	604.20	17.55	1.67	19.22	14.65	618.05	No	bailed 0.25 gal. FP
MW-26	01/27/00	632.70	635.98	619.20	604.20	18.75	1.18	19.93	15.74	616.96	No	bailed 0.2 gal. FP
MW-26	02/24/00	632.70	635.98	619.20	604.20	19.18	1.50	20.68	16.24	616.46	No	bailed 2 gal. FP

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	03/31/00	632.70	635.98	619.20	604.20	18.71	1.92	20.63	15.86	616.84	No	bailed 0.25 gal. FP
MW-26	04/20/00	632.70	635.98	619.20	604.20	18.51	1.81	20.32	15.64	617.06	No	bailed 2 gal. FP
MW-26	04/26/00	632.70	635.98	619.20	604.20	18.52	1.56	20.08	15.59	617.11	No	bailed 1.5 gal. FP
MW-26	05/31/00	632.70	635.98	619.20	604.20	18.16	1.60	19.76	15.24	617.46	No	bailed 2 gal. FP
MW-26	06/29/00	632.70	635.98	619.20	604.20	18.25	1.95	20.20	15.41	617.29	No	bailed 0.5 gal. FP
MW-26	07/26/00	632.70	635.98	619.20	604.20	18.80	0.16	18.96	15.56	617.14	No	bailed 2 gal. FP
MW-26	08/18/00	632.70	635.98	619.20	604.20	18.94	1.19	20.13	15.93	616.77	No	bailed 0.25 gal. FP
MW-26	09/27/00	632.70	635.98	619.20	604.20	19.42	1.84	21.26	16.56	616.14	No	bailed 0.5 gal. FP
MW-26	10/11/00	632.70	635.98	619.20	604.20	19.27	2.33	21.60	16.52	616.18	No	bailed 1.5 gal. FP
MW-26	11/17/00	632.70	635.98	619.20	604.20	19.31	1.84	21.15	16.45	616.25	No	bailed 2.5 gal. FP
MW-26	12/12/00	632.70	635.98	619.20	604.20	19.11	0.52	19.63	15.95	616.75	No	bailed 0.25 gal. FP
MW-26	01/18/01	632.70	635.98	619.20	604.20	19.52	0.47	19.99	16.35	616.35	No	bailed 0.2 gal. FP
MW-26	04/24/01	632.70	635.98	619.20	604.20	19.37	1.06	20.43	16.33	616.37	No	product abated using vactruck
MW-26	05/23/01	632.70	635.98	619.20	604.20	17.94	1.88	19.82	15.08	617.62	No	no product bailed
MW-26	06/19/01	632.70	635.98	619.20	604.20	17.78	2.07	19.85	14.97	617.73	No	
MW-26	07/26/01	632.70	635.98	619.20	604.20	18.96	0.88	19.84	15.88	616.82	No	
MW-26	08/31/01	632.70	635.98	619.20	604.20	19.29	1.02	20.31	16.24	616.46	No	
MW-26	09/26/01	632.70	635.98	619.20	604.20	19.28	1.81	21.09	16.41	616.29	No	
MW-26	10/24/01	632.70	635.98	619.20	604.20	19.32	2.00	21.32	16.49	616.21	No	
MW-26	12/20/01	632.70	635.98	619.20	604.20	19.58	1.94	21.52	16.74	615.96	No	
MW-26	01/22/02	632.70	635.98	619.20	604.20	19.66	2.68	22.34	16.99	615.71	No	
MW-26	02/26/02	632.70	635.98	619.20	604.20	20.00	2.94	22.94	17.38	615.32	No	
MW-26	03/20/02	632.70	635.98	619.20	604.20	20.22	2.44	22.66	17.49	615.21	No	
MW-26	04/24/02	632.70	635.98	619.20	604.20	19.65	1.05	20.70	16.61	616.09	No	
MW-26	05/15/02	632.70	635.98	619.20	604.20	19.27	0.89	20.16	16.19	616.51	No	
MW-26	06/27/02	632.70	635.98	619.20	604.20	19.30	0.99	20.29	16.24	616.46	No	
MW-26	07/25/02	632.70	635.98	619.20	604.20	19.27	0.77	20.04	16.16	616.54	No	
MW-26	08/20/02	632.70	635.98	619.20	604.20	19.05	1.12	20.17	16.02	616.68	No	
MW-26	09/30/02	632.70	635.98	619.20	604.20	18.42	1.37	19.79	15.45	617.25	No	
MW-26	11/05/02	632.70	635.98	619.20	604.20	18.10	1.61	19.71	15.18	617.52	No	
MW-26	12/23/02	632.70	635.98	619.20	604.20	19.32	1.17	20.49	16.30	616.40	No	
MW-26	01/28/03	632.70	635.98	619.20	604.20	19.68	2.59	22.27	16.98	615.72	No	
MW-26	02/19/03	632.70	635.98	619.20	604.20	19.80	3.41	23.21	17.29	615.41	No	
MW-26	04/17/03	632.70	635.98	619.20	604.20	20.41	2.72	23.13	17.74	614.96	No	
MW-26	05/15/03	632.70	635.98	619.20	604.20	20.51	1.16	21.67	17.49	615.21	No	
MW-26	06/10/03	632.70	635.98	619.20	604.20	20.10	1.10	21.20	17.07	615.63	No	
MW-26	10/23/03	632.70	635.98	619.20	604.20	20.39	2.81	23.20	17.74	614.96	No	
MW-26	12/03/03	632.70	635.98	619.20	604.20	20.59	2.79	23.38	17.94	614.76	No	
MW-26	04/19/04	633.45	636.11	619.20	604.20	20.89	2.43	23.32	18.78	614.67	No	
MW-26	07/28/04	633.45	636.11	619.20	604.20	20.09	1.67	21.76	17.81	615.64	No	

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Former Amoco Terminal
Superior, Wisconsin

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MW-26	11/15/04	633.45	636.11	619.20	604.20	19.25	0.65	19.90	16.74	616.71	No	
MW-26	04/18/05	633.45	636.11	619.20	604.20	19.73	0.57	20.30	17.20	616.25	No	
MW-26	09/09/05	633.45	636.11	619.20	604.20	19.31	1.88	21.19	17.07	616.38	No	
MW-26	10/11/05	633.45	636.11	619.20	604.20	18.82	1.42	20.24	16.48	616.97	No	
MW-26	05/23/06	633.45	636.11	619.20	604.20	17.75	2.11	19.86	15.57	617.88	No	
MW-26	10/16/06	633.45	636.11	619.20	604.20	19.49	2.48	21.97	17.39	616.06	No	
MW-26	04/23/07	633.45	636.11	619.20	604.20	20.39	0.31	20.70	17.80	615.65	No	
MW-26	09/25/07	633.45	636.11	619.20	604.20	20.37	0.38	20.75	17.80	615.65	No	
MW-26	05/01/08	633.45	636.11	619.20	604.20	19.05	0.59	19.64	16.52	616.93	No	
MW-26	10/20/08	633.45	636.11	619.20	604.20	16.92	3.06	19.98	14.95	618.50	No	
MW-26	04/18/09	633.45	636.11	619.20	604.20	18.22	2.08	20.30	16.03	617.42	No	
MW-26	10/11/09	633.45	636.11	619.20	604.20	19.43	1.50	20.93	17.11	616.34	No	
MW-26	04/28/10	633.45	636.11	619.20	604.20	19.29	1.10	20.39	16.88	616.57	No	
MW-26	10/25/10	633.45	636.11	619.20	604.20	16.86	2.90	19.76	14.86	618.59	No	
MW-26	04/25/11	633.45	636.11	619.20	604.20	18.07	1.99	20.06	15.86	617.59	No	
MW-26	08/03/11	633.45	636.11	619.20	604.20	16.12	3.43	19.55	14.23	619.22	Yes	
MW-26	10/10/11	633.45	636.11	619.20	604.20	18.03	1.66	19.69	15.74	617.71	No	
MW-26	01/04/12	633.45	636.11	619.20	604.20	19.38	2.00	21.38	17.17	616.28	No	
MW-26	04/05/12	633.45	636.11	619.20	604.20	20.14	1.81	21.95	17.89	615.56	No	Spill Buddy Before Reading
MW-26	04/05/12	633.45	636.11	619.20	604.20	21.21	0.49	21.70	18.66	614.79	No	Spill Buddy After Reading
MW-26	04/16/12	633.45	636.11	619.20	604.20	20.28	0.17	20.45	17.66	615.79	No	
MW-26	06/26/12	633.45	636.11	619.20	604.20	17.20	1.69	18.89	14.92	618.53	No	
MW-26	07/11/12	633.45	636.11	619.20	604.20	17.80	1.42	19.22	15.46	617.99	No	
MW-26	07/11/12	633.45	636.11	619.20	604.20	18.14	0.34	18.48	15.56	617.89	No	
MW-26	09/29/12	633.45	636.11	619.20	604.20	19.46	0.89	20.35	17.00	616.45	No	Spill Buddy Before Reading
MW-26	09/29/12	633.45	636.11	619.20	604.20	19.76	0.17	19.93	17.14	616.31	No	Spill Buddy After Reading
MW-26	09/30/12	633.45	636.11	619.20	604.20	19.40	0.90	20.30	16.94	616.51	No	
MW-26	11/21/12	633.45	636.11	619.20	604.20	19.70	2.19	21.89	17.53	615.92	No	
MW-26	12/17/12	633.45	636.11	619.20	604.20	19.85	2.60	22.45	17.78	615.67	No	
MW-26	03/25/13	633.45	636.11	619.20	604.20	20.68	2.73	23.41	18.64	614.81	No	
MW-26	05/05/13	633.45	636.11	619.20	604.20	NP	0.00	20.45	17.79	615.66	No	
MW-26	10/03/13	633.45	636.11	619.20	604.20	19.84	1.86	21.70	17.60	615.85	No	
MW-26	05/22/14	633.45	636.11	619.20	604.20	18.34	0.56	18.90	15.81	617.64	No	
MW-26	06/19/14	633.45	636.11	619.20	604.20	17.27	0.71	17.98	14.77	618.68	No	
MW-26	10/31/14	633.45	636.11	619.20	604.20	17.92	2.11	20.03	15.74	617.71	No	
MW-26	05/06/15	633.45	636.11	619.20	604.20	19.56	0.65	20.21	17.05	616.40	No	
MW-26	10/05/15	633.45	636.11	619.20	604.20	17.62	1.68	19.30	15.34	618.11	No	
MW-26	05/23/16	633.45	636.11	619.20	604.20	14.34	5.28	19.62	12.87	620.58	Yes	
MW-26	10/03/16	633.45	636.11	619.20	604.20	16.51	3.03	19.54	14.53	618.92	No	
MW-26	06/21/17	633.45	636.11	619.20	604.20	15.25	4.30	19.55	13.56	619.89	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	06/22/17	633.45	636.11	619.20	604.20	16.09	3.44	19.53	14.21	619.24	Yes	
MW-26	06/23/17	633.45	636.11	619.20	604.20	15.23	4.30	19.53	13.54	619.91	Yes	
MW-27	06/30/89	635.10	637.02	620.89	605.89	21.60	4.40	26.00	20.67	614.43	No	
MW-27	07/12/89	635.10	637.02	620.89	605.89	21.70	4.50	26.20	20.80	614.30	No	
MW-27	07/26/89	635.10	637.02	620.89	605.89	21.80	4.14	25.94	20.82	614.28	No	
MW-27	07/27/89	635.10	637.02	620.89	605.89	21.94	7.62	29.56	21.74	613.36	No	
MW-27	09/03/89	635.10	637.02	620.89	605.89	22.10	8.49	30.59	22.10	613.00	No	
MW-27	11/16/89	635.10	637.02	620.89	605.89	21.95	8.27	30.22	21.90	613.20	No	
MW-27	11/29/89	635.10	637.02	620.89	605.89	22.03	7.92	29.95	21.90	613.20	No	
MW-27	12/01/89	635.10	637.02	620.89	605.89	22.15	8.12	30.27	22.06	613.04	No	
MW-27	12/02/89	635.10	637.02	620.89	605.89	22.19	8.16	30.35	22.11	612.99	No	
MW-27	05/04/90	635.10	637.02	620.89	605.89	22.84	8.86	31.70	22.92	612.18	No	
MW-27	06/01/90	635.10	637.02	620.89	605.89	22.65	7.55	30.20	22.44	612.66	No	
MW-27	06/19/90	635.10	637.02	620.89	605.89	22.60	6.67	29.27	22.19	612.91	No	
MW-27	06/27/90	635.10	637.02	620.89	605.89	21.55	6.51	28.06	21.10	614.00	No	
MW-27	07/05/90	635.10	637.02	620.89	605.89	21.58	7.36	28.94	21.32	613.78	No	
MW-27	07/13/90	635.10	637.02	620.89	605.89	21.50	7.00	28.50	21.16	613.94	No	
MW-27	07/17/90	635.10	637.02	620.89	605.89	21.49	6.94	28.43	21.14	613.96	No	
MW-27	07/25/90	635.10	637.02	620.89	605.89	21.50	7.26	28.76	21.22	613.88	No	
MW-27	08/09/90	635.10	637.02	620.89	605.89	21.47	7.30	28.77	21.20	613.90	No	
MW-27	08/27/90	635.10	637.02	620.89	605.89	21.49	6.55	28.04	21.05	614.05	No	
MW-27	09/06/90	635.10	637.02	620.89	605.89	21.40	3.70	25.10	20.32	614.78	No	
MW-27	01/04/91	635.10	637.02	620.89	605.89	20.70	4.12	24.82	19.71	615.39	No	
MW-27	01/30/91	635.10	637.02	620.89	605.89	20.81	7.01	27.82	20.47	614.63	No	
MW-27	04/24/91	635.10	637.02	620.89	605.89	21.17	4.73	25.90	20.32	614.78	No	
MW-27	06/06/91	635.10	637.02	620.89	605.89	20.25	2.90	23.15	18.99	616.11	No	
MW-27	07/09/91	635.10	637.02	620.89	605.89	19.35	2.63	21.98	18.02	617.08	No	
MW-27	08/06/91	635.10	637.02	620.89	605.89	18.44	2.60	21.04	17.11	617.99	No	
MW-27	09/04/91	635.10	637.02	620.89	605.89	18.47	2.47	20.94	17.11	617.99	No	
MW-27	10/08/91	635.10	637.02	620.89	605.89	17.50	3.00	20.50	16.26	618.84	No	
MW-27	11/08/91	635.10	637.02	620.89	605.89	18.17	2.50	20.67	16.81	618.29	No	
MW-27	12/03/91	635.10	637.02	620.89	605.89	16.15	4.15	20.30	15.17	619.93	No	
MW-27	01/07/92	635.10	637.02	620.89	605.89	17.95	2.40	20.35	16.57	618.53	No	
MW-27	02/04/92	635.10	637.02	620.89	605.89	18.65	2.27	20.92	17.24	617.86	No	
MW-27	03/03/92	635.10	637.02	620.89	605.89	19.02	2.48	21.50	17.66	617.44	No	
MW-27	09/24/92	635.10	637.02	620.89	605.89	16.80	3.55	20.35	15.68	619.42	No	
MW-27	10/14/92	635.10	637.02	620.89	605.89	18.21	2.41	20.62	16.83	618.27	No	
MW-27	06/25/93	635.10	637.02	620.89	605.89	14.71	4.95	19.66	13.91	621.19	Yes	
MW-27	10/28/93	635.10	637.02	620.89	605.89	18.74	2.14	20.88	17.30	617.80	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	01/29/94	635.10	637.02	620.89	605.89	19.30	2.61	21.91	17.97	617.13	No	
MW-27	04/27/94	635.10	637.02	620.89	605.89	19.21	2.23	21.44	17.79	617.31	No	
MW-27	07/21/94	635.10	637.02	620.89	605.89	17.95	2.09	20.04	16.50	618.60	No	
MW-27	10/25/94	635.10	637.02	620.89	605.89	18.61	1.81	20.42	17.10	618.00	No	
MW-27	11/02/94	635.10	637.02	620.89	605.89	18.20	2.50	20.70	16.84	618.26	No	
MW-27	02/01/95	635.10	637.02	620.89	605.89	20.24	4.16	24.40	19.26	615.84	No	
MW-27	04/04/95	635.10	637.02	620.89	605.89	20.17	2.90	23.07	18.91	616.19	No	
MW-27	07/12/95	635.10	637.02	620.89	605.89	19.43	1.23	20.66	17.79	617.31	No	
MW-27	11/14/95	635.10	637.02	620.89	605.89	18.10	1.22	19.32	16.46	618.64	No	
MW-27	03/13/96	635.10	637.02	620.89	605.89	19.75	2.90	22.65	18.49	616.61	No	
MW-27	10/08/96	635.10	637.02	620.89	605.89	16.92	2.36	19.28	15.53	619.57	No	
MW-27	04/29/97	635.10	637.02	620.89	605.89	15.80	3.20	19.00	14.60	620.50	No	
MW-27	06/10/97	635.10	637.02	620.89	605.89	17.55	1.60	19.15	15.99	619.11	No	FP bailed 5/22/97
MW-27	11/03/98	635.10	637.02	620.89	605.89	20.18	3.33	23.51	19.01	616.09	No	
MW-27	03/02/99	635.10	637.02	620.89	605.89	20.88	1.62	22.50	19.33	615.77	No	
MW-27	10/07/99	635.10	637.02	620.89	605.89	16.78	3.14	19.92	15.57	619.53	No	
MW-27	11/09/99	635.10	637.02	620.89	605.89	16.55	2.50	19.05	15.19	619.91	No	bailed 1.5 gal. FP
MW-27	12/21/99	635.10	637.02	620.89	605.89	18.70	0.58	19.28	16.91	618.19	No	bailed 0.25 gal. FP
MW-27	01/27/00	635.10	637.02	620.89	605.89	19.88	2.12	22.00	18.44	616.66	No	bailed 0.3 gal. FP
MW-27	02/24/00	635.10	637.02	620.89	605.89	19.94	1.93	21.87	18.46	616.64	No	bailed 1 gal. FP
MW-27	03/31/00	635.10	637.02	620.89	605.89	19.63	3.27	22.90	18.45	616.65	No	bailed 2.5 gal. FP
MW-27	04/20/00	635.10	637.02	620.89	605.89	19.65	1.12	20.77	17.98	617.12	No	bailed 0.25 gal. FP
MW-27	04/26/00	635.10	637.02	620.89	605.89	19.57	0.96	20.53	17.87	617.23	No	bailed 1 gal. FP
MW-27	05/31/00	635.10	637.02	620.89	605.89	19.63	0.45	20.08	17.81	617.29	No	bailed 0.125 gal. FP
MW-27	06/29/00	635.10	637.02	620.89	605.89	19.54	0.65	20.19	17.77	617.33	No	bailed 0.25 gal. FP
MW-27	07/26/00	635.10	637.02	620.89	605.89	19.61	0.07	19.68	17.71	617.39	No	
MW-27	08/18/00	635.10	637.02	620.89	605.89	19.55	4.65	24.20	18.68	616.42	No	bailed 1.5 gal. FP
MW-27	09/27/00	635.10	637.02	620.89	605.89	20.10	2.37	22.47	18.72	616.38	No	bailed 1 gal. FP
MW-27	10/11/00	635.10	637.02	620.89	605.89	19.93	2.76	22.69	18.63	616.47	No	bailed 3 gal. FP
MW-27	11/17/00	635.10	637.02	620.89	605.89	20.07	2.92	22.99	18.81	616.29	No	bailed 3 gal. FP
MW-27	12/12/00	635.10	637.02	620.89	605.89	19.92	1.14	21.06	18.26	616.84	No	bailed 2 gal. FP
MW-27	01/18/01	635.10	637.02	620.89	605.89	20.51	1.26	21.77	18.87	616.23	No	bailed 2 gal. FP
MW-27	04/24/01	635.10	637.02	620.89	605.89	19.98	2.19	22.17	18.55	616.55	No	product abated using vactruck
MW-27	05/23/01	635.10	637.02	620.89	605.89	19.47	0.02	19.49	17.55	617.55	No	no product bailed
MW-27	06/19/01	635.10	637.02	620.89	605.89	19.91	0.10	20.01	18.01	617.09	No	TPC = TOC + 0.61 feet
MW-27	07/26/01	635.10	637.02	620.89	605.89	19.82	0.51	20.33	18.02	617.08	No	
MW-27	08/31/01	635.10	637.02	620.89	605.89	20.02	1.41	21.43	18.42	616.68	No	
MW-27	09/26/01	635.10	637.02	620.89	605.89	20.10	1.88	21.98	18.60	616.50	No	
MW-27	10/24/01	635.10	637.02	620.89	605.89	20.08	2.60	22.68	18.75	616.35	No	
MW-27	12/20/01	635.10	637.02	620.89	605.89	21.13	2.68	23.81	19.82	615.28	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	01/22/02	635.10	637.02	620.89	605.89	20.78	2.99	23.77	19.54	615.56	No	
MW-27	02/26/02	635.10	637.02	620.89	605.89	20.92	3.35	24.27	19.76	615.34	No	
MW-27	03/20/02	635.10	637.02	620.89	605.89	21.09	3.31	24.40	19.92	615.18	No	
MW-27	04/24/02	635.10	637.02	620.89	605.89	20.29	3.77	24.06	19.22	615.88	No	
MW-27	05/15/02	635.10	637.02	620.89	605.89	19.98	3.19	23.17	18.78	616.32	No	
MW-27	06/27/02	635.10	637.02	620.89	605.89	20.17	2.67	22.84	18.85	616.25	No	
MW-27	07/25/02	635.10	637.02	620.89	605.89	20.08	2.22	22.30	18.66	616.44	No	
MW-27	08/20/02	635.10	637.02	620.89	605.89	19.97	1.89	21.86	18.48	616.62	No	
MW-27	09/30/02	635.10	637.02	620.89	605.89	19.70	0.65	20.35	17.93	617.17	No	
MW-27	11/05/02	635.10	637.02	620.89	605.89	19.57	0.06	19.63	17.66	617.44	No	
MW-27	12/23/02	635.10	637.02	620.89	605.89	20.33	1.06	21.39	18.65	616.45	No	
MW-27	01/28/03	635.10	637.02	620.89	605.89	20.86	1.60	22.46	19.30	615.80	No	
MW-27	02/19/03	635.10	637.02	620.89	605.89	20.89	2.54	23.43	19.54	615.56	No	
MW-27	04/17/03	635.10	637.02	620.89	605.89	21.29	3.33	24.62	20.12	614.98	No	
MW-27	05/15/03	635.10	637.02	620.89	605.89	21.36	3.46	24.82	20.22	614.88	No	
MW-27	06/10/03	635.10	637.02	620.89	605.89	21.30	2.66	23.96	19.98	615.12	No	
MW-27	10/23/03	635.10	637.02	620.89	605.89	21.35	3.01	24.36	20.11	614.99	No	
MW-27	12/03/03	635.10	637.02	620.89	605.89	21.44	3.26	24.70	20.26	614.84	No	
MW-27	04/19/04	635.10	636.93	620.89	605.89	22.02	3.94	25.96	21.08	614.02	No	
MW-27	07/28/04	635.10	636.93	620.89	605.89	21.16	2.08	23.24	19.80	615.30	No	
MW-27	11/16/04	635.10	636.93	620.89	605.89	20.99	1.23	22.22	19.44	615.66	No	
MW-27	04/18/05	635.10	636.93	620.89	605.89	20.82	2.17	22.99	19.48	615.62	No	
MW-27	09/09/05	635.10	636.93	620.89	605.89	20.37	1.70	22.07	18.92	616.18	No	
MW-27	10/11/05	635.10	636.93	620.89	605.89	20.11	1.06	21.17	18.52	616.58	No	
MW-27	05/23/06	635.10	636.93	620.89	605.89	19.36	1.22	20.58	17.81	617.29	No	
MW-27	10/16/06	635.10	636.93	620.89	605.89	20.58	2.37	22.95	19.29	615.81	No	
MW-27	04/23/07	635.10	636.93	620.89	605.89	21.45	3.45	24.90	20.40	614.70	No	
MW-27	09/25/07	635.10	637.67	620.89	605.89	21.63	3.59	25.22	19.87	615.23	No	
MW-27	05/01/08	635.10	637.67	620.89	605.89	20.78	1.43	22.21	18.53	616.57	No	
MW-27	10/20/08	635.10	637.67	620.89	605.89	19.19	0.78	19.97	16.80	618.30	No	
MW-27	04/18/09	635.10	637.67	620.89	605.89	19.23	1.83	21.06	17.07	618.03	No	
MW-27	08/04/09	635.10	637.67	620.89	605.89	20.68	1.66	22.34	18.48	616.62	No	
MW-27	08/05/09	635.10	637.67	620.89	605.89	21.10	1.25	22.35	18.81	616.29	No	
MW-27	08/13/09	635.10	637.67	620.89	605.89	20.90	0.58	21.48	18.46	616.64	No	
MW-27	08/18/09	635.10	637.67	620.89	605.89	20.53	0.79	21.32	18.14	616.96	No	
MW-27	08/26/09	635.10	637.67	620.89	605.89	20.56	0.66	21.22	18.14	616.96	No	
MW-27	09/03/09	635.10	637.67	620.89	605.89	20.28	0.70	20.98	17.87	617.23	No	
MW-27	09/08/09	635.10	637.67	620.89	605.89	20.24	0.69	20.93	17.83	617.27	No	
MW-27	09/14/09	635.10	637.67	620.89	605.89	20.30	0.96	21.26	17.95	617.15	No	
MW-27	10/11/09	635.10	637.67	620.89	605.89	20.71	1.03	21.74	18.37	616.73	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	10/15/09	635.10	637.67	620.89	605.89	20.71	1.03	21.74	18.37	616.73	No	
MW-27	04/28/10	635.10	637.67	620.89	605.89	20.73	1.89	22.62	18.59	616.51	No	
MW-27	10/25/10	635.10	637.67	620.89	605.89	18.70	1.14	19.84	16.39	618.71	No	
MW-27	04/25/11	635.10	637.67	620.89	605.89	20.03	0.79	20.82	17.64	617.46	No	
MW-27	08/04/11	635.10	637.67	620.89	605.89	18.21	1.22	19.43	15.92	619.18	No	
MW-27	09/15/11	635.10	637.67	620.89	605.89	19.41	0.32	19.73	16.91	618.19	No	
MW-27	09/23/11	635.10	637.67	620.89	605.89	19.55	0.13	19.68	17.01	618.09	No	
MW-27	09/29/11	635.10	637.67	620.89	605.89	19.45	0.50	19.95	16.99	618.11	No	
MW-27	10/07/11	635.10	637.67	620.89	605.89	19.52	0.42	19.94	17.04	618.06	No	
MW-27	10/10/11	635.10	637.67	620.89	605.89	19.70	0.39	20.09	17.22	617.88	No	
MW-27	10/21/11	635.10	637.67	620.89	605.89	19.96	0.32	20.28	17.46	617.64	No	
MW-27	10/27/11	635.10	637.67	620.89	605.89	20.09	0.29	20.38	17.59	617.51	No	
MW-27	11/04/11	635.10	637.67	620.89	605.89	20.27	0.37	20.64	17.78	617.32	No	
MW-27	11/09/11	635.10	637.67	620.89	605.89	20.20	0.24	20.44	17.68	617.42	No	
MW-27	11/18/11	635.10	637.67	620.89	605.89	20.33	0.35	20.68	17.84	617.26	No	
MW-27	11/22/11	635.10	637.67	620.89	605.89	20.43	0.50	20.93	17.97	617.13	No	
MW-27	12/01/11	635.10	637.67	620.89	605.89	20.73	0.98	21.71	18.38	616.72	No	
MW-27	01/04/12	635.10	637.67	620.89	605.89	20.93	2.61	23.54	18.95	616.15	No	
MW-27	02/16/12	635.10	637.67	620.89	605.89	21.31	2.35	23.66	19.27	615.83	No	
MW-27	03/13/12	635.10	637.67	620.89	605.89	21.46	2.73	24.19	19.51	615.59	No	
MW-27	04/03/12	635.10	637.67	620.89	605.89	21.58	2.84	24.42	19.65	615.45	No	Spill Buddy Before Reading
MW-27	04/03/12	635.10	637.67	620.89	605.89	22.20	0.65	22.85	19.78	615.32	No	Spill Buddy After Reading
MW-27	04/16/12	635.10	637.67	620.89	605.89	21.33	3.01	24.34	19.44	615.66	No	
MW-27	06/18/12	635.10	637.67	620.89	605.89	20.13	0.69	20.82	17.72	617.38	No	
MW-27	06/26/12	635.10	637.67	620.89	605.89	19.28	0.70	19.98	16.87	618.23	No	
MW-27	07/12/12	635.10	637.67	620.89	605.89	19.57	0.82	20.39	17.19	617.91	No	
MW-27	07/24/12	635.10	637.67	620.89	605.89	19.93	0.65	20.58	17.51	617.59	No	
MW-27	08/09/12	635.10	637.67	620.89	605.89	20.04	0.71	20.75	17.63	617.47	No	Spill Buddy Before Reading
MW-27	08/09/12	635.10	637.67	620.89	605.89	20.29	0.11	20.40	17.74	617.36	No	Spill Buddy After Reading
MW-27	08/17/12	635.10	637.67	620.89	605.89	20.21	0.69	20.90	17.80	617.30	No	
MW-27	09/17/12	635.10	637.67	620.89	605.89	20.57	1.01	21.58	18.23	616.87	No	
MW-27	09/18/12	635.10	637.67	620.89	605.89	20.54	1.01	21.55	18.20	616.90	No	Spill Buddy Before Reading
MW-27	09/18/12	635.10	637.67	620.89	605.89	20.79	0.06	20.85	18.23	616.87	No	Spill Buddy After Reading
MW-27	09/20/12	635.10	637.67	620.89	605.89	20.62	1.06	21.68	18.29	616.81	No	
MW-27	09/30/12	635.10	637.67	620.89	605.89	20.75	1.13	21.88	18.44	616.66	No	
MW-27	10/22/12	635.10	637.67	620.89	605.89	21.13	1.29	22.42	18.85	616.25	No	
MW-27	11/21/12	635.10	637.67	620.89	605.89	21.15	2.09	23.24	19.05	616.05	No	
MW-27	12/17/12	635.10	637.67	620.89	605.89	21.30	2.63	23.93	19.32	615.78	No	
MW-27	12/20/12	635.10	637.67	620.89	605.89	21.30	2.72	24.02	19.34	615.76	No	
MW-27	03/25/13	635.10	637.67	620.89	605.89	21.30	4.24	25.54	19.69	615.41	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	05/05/13	635.10	637.67	620.89	605.89	21.81	3.34	25.15	19.99	615.11	No	
MW-27	10/03/13	635.10	637.67	620.89	605.89	21.37	1.82	23.19	19.21	615.89	No	
MW-27	05/22/14	635.10	637.67	620.89	605.89	20.41	0.44	20.85	17.94	617.16	No	
MW-27	10/31/14	635.10	637.67	620.89	605.89	19.65	0.31	19.96	17.15	617.95	No	
MW-27	05/06/15	635.10	637.67	620.89	605.89	21.07	2.19	23.26	18.99	616.11	No	
MW-27	07/10/15	635.10	637.67	620.89	605.89	20.33	0.63	20.96	17.90	617.20	No	
MW-27	10/05/15	635.10	637.67	620.89	605.89	19.82	0.28	20.10	17.31	617.79	No	
MW-27	05/23/16	635.10	637.67	620.89	605.89	16.52	3.08	19.60	14.65	620.45	No	
MW-27	10/03/16	635.10	637.67	620.89	605.89	18.31	1.65	19.96	16.11	618.99	No	
MW-27	06/14/17	635.10	637.67	620.89	605.89	16.70	3.06	19.76	14.82	620.28	No	
MW-27	06/21/17	635.10	637.67	620.89	605.89	17.35	2.34	19.69	15.31	619.79	No	
MW-27	06/22/17	635.10	637.67	620.89	605.89	17.13	2.57	19.70	15.14	619.96	No	
MW-27	06/23/17	635.10	637.67	620.89	605.89	17.25	2.50	19.75	15.24	619.86	No	
MW-27	10/26/17	635.10	637.67	620.89	605.89	14.56	5.34	19.90	13.20	621.90	Yes	
MW-27	05/15/18	635.10	637.67	620.89	605.89	20.45	0.81	21.26	18.06	617.04	No	
MW-27	05/23/18	635.10	637.67	620.89	605.89	20.35	0.80	21.15	17.96	617.14	No	
MW-28	06/30/89	635.70	638.14	624.08	609.08	NP	0.00	21.10	18.66	617.04	No	
MW-28	07/12/89	635.70	638.14	624.08	609.08	NP	0.00	21.59	19.15	616.55	No	
MW-28	07/26/89	635.70	638.14	624.08	609.08	NP	0.00	21.73	19.29	616.41	No	
MW-28	07/27/89	635.70	638.14	624.08	609.08	NP	0.00	21.84	19.40	616.30	No	
MW-28	09/03/89	635.70	638.14	624.08	609.08	NP	0.00	21.95	19.51	616.19	No	
MW-28	11/16/89	635.70	638.14	624.08	609.08	NP	0.00	22.11	19.67	616.03	No	
MW-28	11/29/89	635.70	638.14	624.08	609.08	NP	0.00	22.39	19.95	615.75	No	
MW-28	06/19/90	635.70	638.14	624.08	609.08	NP	0.00	22.01	19.57	616.13	No	
MW-28	06/27/90	635.70	638.14	624.08	609.08	NP	0.00	22.07	19.63	616.07	No	
MW-28	07/05/90	635.70	638.14	624.08	609.08	NP	0.00	22.45	20.01	615.69	No	
MW-28	07/13/90	635.70	638.14	624.08	609.08	NP	0.00	22.45	20.01	615.69	No	
MW-28	07/17/90	635.70	638.14	624.08	609.08	NP	0.00	22.16	19.72	615.98	No	
MW-28	07/25/90	635.70	638.14	624.08	609.08	NP	0.00	22.48	20.04	615.66	No	
MW-28	09/06/90	635.70	638.14	624.08	609.08	NP	0.00	21.83	19.39	616.31	No	
MW-28	01/04/91	635.70	638.14	624.08	609.08	NP	0.00	21.71	19.27	616.43	No	
MW-28	07/09/91	635.70	638.14	624.08	609.08	NP	0.00	18.84	16.40	619.30	No	
MW-28	10/08/91	635.70	638.14	624.08	609.08	NP	0.00	17.71	15.27	620.43	No	
MW-28	01/07/92	635.70	638.14	624.08	609.08	NP	0.00	18.77	16.33	619.37	No	
MW-28	10/14/92	635.70	638.14	624.08	609.08	NP	0.00	18.48	16.04	619.66	No	
MW-28	06/25/93	635.70	638.14	624.08	609.08	NP	0.00	15.49	13.05	622.65	No	
MW-28	10/28/93	635.70	638.14	624.08	609.08	NP	0.00	19.10	16.66	619.04	No	
MW-28	01/29/94	635.70	638.14	624.08	609.08	NP	0.00	20.59	18.15	617.55	No	
MW-28	04/27/94	635.70	638.14	624.08	609.08	NP	0.00	19.67	17.23	618.47	No	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-28	07/21/94	635.70	638.14	624.08	609.08	NP	0.00	18.64	16.20	619.50	No	
MW-28	10/25/94	635.70	638.14	624.08	609.08	NP	0.00	19.04	16.60	619.10	No	
MW-28	10/27/94	635.70	638.14	624.08	609.08	NP	0.00	18.35	15.91	619.79	No	
MW-28	02/01/95	635.70	638.14	624.08	609.08	NP	0.00	20.96	18.52	617.18	No	
MW-28	04/04/95	635.70	638.14	624.08	609.08	NP	0.00	21.51	19.07	616.63	No	
MW-28	07/12/95	635.70	638.14	624.08	609.08	NP	0.00	19.98	17.54	618.16	No	
MW-28	11/13/95	635.70	638.14	624.08	609.08	NP	0.00	18.52	16.08	619.62	No	
MW-28	03/13/96	635.70	638.14	624.08	609.08	NP	0.00	21.11	18.67	617.03	No	
MW-28	04/22/96	635.70	638.14	624.08	609.08	NP	0.00	19.07	16.63	619.07	No	
MW-28	10/08/96	635.70	638.14	624.08	609.08	NP	0.00	17.82	15.38	620.32	No	
MW-28	04/29/97	635.70	638.14	624.08	609.08	NP	0.00	13.65	11.21	624.49	Yes	
MW-28	11/03/98	635.70	638.14	624.08	609.08	NP	0.00	21.02	18.58	617.12	No	
MW-28	03/02/99	635.70	638.14	624.08	609.08	NP	0.00	21.60	19.16	616.54	No	
MW-28	04/26/00	635.70	638.14	624.08	609.08	NP	0.00	20.17	17.73	617.97	No	
MW-28	10/10/00	635.70	638.14	624.08	609.08	NP	0.00	21.12	18.68	617.02	No	
MW-28	04/24/01	635.70	638.14	624.08	609.08	NP	0.00	20.63	18.19	617.51	No	
MW-28	10/24/01	635.70	638.14	624.08	609.08	NP	0.00	20.98	18.54	617.16	No	
MW-28	01/22/02	635.70	638.14	624.08	609.08	21.09	3.23	24.32	19.38	616.32	No	Deepest measured DTW
MW-28	02/26/02	635.70	638.14	624.08	609.08	NP	0.00	22.15	19.71	615.99	No	
MW-28	03/20/02	635.70	638.14	624.08	609.08	NP	0.00	22.37	19.93	615.77	No	
MW-28	04/23/02	635.70	638.14	624.08	609.08	NP	0.00	21.41	18.97	616.73	No	
MW-28	05/15/02	635.70	638.14	624.08	609.08	NP	0.00	20.49	18.05	617.65	No	
MW-28	08/20/02	635.70	638.14	624.08	609.08	NP	0.00	20.40	17.96	617.74	No	
MW-28	11/05/02	635.70	638.14	624.08	609.08	NP	0.00	19.43	16.99	618.71	No	
MW-28	12/23/02	635.70	638.14	624.08	609.08	NP	0.00	21.22	18.78	616.92	No	
MW-28	01/28/03	635.70	638.14	624.08	609.08	NP	0.00	21.70	19.26	616.44	No	
MW-28	01/28/03	635.70	638.14	624.08	609.08	NP	0.00	22.07	19.63	616.07	No	
MW-28	04/17/03	635.70	638.14	624.08	609.08	NP	0.00	22.48	20.04	615.66	No	
MW-28	06/10/03	635.70	638.14	624.08	609.08	NP	0.00	21.93	19.49	616.21	No	
MW-28	10/20/03	635.70	638.14	624.08	609.08	NP	0.00	22.05	19.61	616.09	No	
MW-28	12/03/03	635.70	638.14	624.08	609.08	NP	0.00	22.39	19.95	615.75	No	
MW-28	04/19/04	635.75	638.31	624.08	609.08	NP	0.00	22.87	20.31	615.44	No	
MW-28	07/28/04	635.75	638.31	624.08	609.08	NP	0.00	21.47	18.91	616.84	No	
MW-28	11/16/04	635.75	638.31	624.08	609.08	NP	0.00	20.34	17.78	617.97	No	
MW-28	04/18/05	635.75	638.31	624.08	609.08	NP	0.00	20.82	18.26	617.49	No	
MW-28	10/11/05	635.75	638.31	624.08	609.08	NP	0.00	20.09	17.53	618.22	No	
MW-28	05/23/06	635.75	638.31	624.08	609.08	NP	0.00	19.23	16.67	619.08	No	
MW-28	10/16/06	635.75	638.31	624.08	609.08	NP	0.00	21.15	18.59	617.16	No	
MW-28	04/23/07	635.75	638.31	624.08	609.08	NP	0.00	22.25	19.69	616.06	No	
MW-28	09/25/07	635.75	638.31	624.08	609.08	NP	0.00	22.16	19.60	616.15	No	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-28	05/01/08	635.75	638.31	624.08	609.08	NP	0.00	20.05	17.49	618.26	No	
MW-28	10/20/08	635.75	638.31	624.08	609.08	NP	0.00	18.38	15.82	619.93	No	
MW-28	04/18/09	635.75	638.31	624.08	609.08	NP	0.00	19.96	17.40	618.35	No	
MW-28	10/11/09	635.75	638.31	624.08	609.08	NP	0.00	20.82	18.26	617.49	No	
MW-28	04/28/10	635.75	638.31	624.08	609.08	NP	0.00	20.97	18.41	617.34	No	
MW-28	10/25/10	635.75	638.31	624.08	609.08	NP	0.00	18.62	16.06	619.69	No	
MW-28	04/25/11	635.75	638.31	624.08	609.08	NP	0.00	19.69	17.13	618.62	No	
MW-28	10/10/11	635.75	638.31	624.08	609.08	NP	0.00	19.85	17.29	618.46	No	
MW-28	01/04/12	635.75	638.31	624.08	609.08	NP	0.00	21.34	18.78	616.97	No	
MW-28	04/16/12	635.75	638.31	624.08	609.08	NP	0.00	22.01	19.45	616.30	No	
MW-28	06/26/12	635.75	638.31	624.08	609.08	NP	0.00	18.39	15.83	619.92	No	
MW-28	09/30/12	635.75	638.31	624.08	609.08	NP	0.00	21.19	18.63	617.12	No	
MW-28	12/17/12	635.75	638.31	624.08	609.08	NP	0.00	21.86	19.30	616.45	No	
MW-28	03/25/13	635.75	638.31	624.08	609.08	NP	0.00	22.94	20.38	615.37	No	
MW-28	05/05/13	635.75	638.31	624.08	609.08	NP	0.00	21.01	18.45	617.30	No	
MW-28	10/03/13	635.75	638.31	624.08	609.08	NP	0.00	21.65	19.09	616.66	No	
MW-30S	06/30/89	629.90	632.91	615.20	605.20	NP	0.00	17.40	14.39	615.51	Yes	
MW-30S	07/12/89	629.90	632.91	615.20	605.20	NP	0.00	17.80	14.79	615.11	No	
MW-30S	07/26/89	629.90	632.91	615.20	605.20	NP	0.00	17.98	14.97	614.93	No	
MW-30S	07/27/89	629.90	632.91	615.20	605.20	NP	0.00	18.12	15.11	614.79	No	
MW-30S	09/03/89	629.90	632.91	615.20	605.20	NP	0.00	18.44	15.43	614.47	No	
MW-30S	11/16/89	629.90	632.91	615.20	605.20	NP	0.00	18.66	15.65	614.25	No	
MW-30S	11/29/89	629.90	632.91	615.20	605.20	NP	0.00	18.77	15.76	614.14	No	
MW-30S	06/01/90	629.90	632.91	615.20	605.20	NP	0.00	18.44	15.43	614.47	No	
MW-30S	06/19/90	629.90	632.91	615.20	605.20	NP	0.00	18.30	15.29	614.61	No	
MW-30S	06/27/90	629.90	632.91	615.20	605.20	NP	0.00	18.53	15.52	614.38	No	
MW-30S	07/05/90	629.90	632.91	615.20	605.20	NP	0.00	18.65	15.64	614.26	No	
MW-30S	07/13/90	629.90	632.91	615.20	605.20	NP	0.00	18.72	15.71	614.19	No	
MW-30S	07/17/90	629.90	632.91	615.20	605.20	NP	0.00	18.56	15.55	614.35	No	
MW-30S	07/25/90	629.90	632.91	615.20	605.20	NP	0.00	18.78	15.77	614.13	No	
MW-30S	08/09/90	629.90	632.91	615.20	605.20	NP	0.00	18.80	15.79	614.11	No	
MW-30S	08/27/90	629.90	632.91	615.20	605.20	NP	0.00	18.67	15.66	614.24	No	
MW-30S	09/06/90	629.90	632.91	615.20	605.20	NP	0.00	18.44	15.43	614.47	No	
MW-30S	01/04/91	629.90	632.91	615.20	605.20	NP	0.00	17.90	14.89	615.01	No	
MW-30S	01/30/91	629.90	632.91	615.20	605.20	NP	0.00	18.20	15.19	614.71	No	
MW-30S	04/24/91	629.90	632.91	615.20	605.20	NP	0.00	18.38	15.37	614.53	No	
MW-30S	07/09/91	629.90	632.91	615.20	605.20	NP	0.00	14.66	11.65	618.25	Yes	
MW-30S	10/08/91	629.90	632.91	615.20	605.20	NP	0.00	14.07	11.06	618.84	Yes	
MW-30S	01/07/92	629.90	632.91	615.20	605.20	NP	0.00	14.94	11.93	617.97	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

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MW-30S	10/14/92	629.90	632.91	615.20	605.20	NP	0.00	15.58	12.57	617.33	Yes	
MW-30S	06/25/93	629.90	632.91	615.20	605.20	NP	0.00	10.97	7.96	621.94	Yes	
MW-30S	10/28/93	629.90	632.91	615.20	605.20	NP	0.00	15.78	12.77	617.13	Yes	
MW-30S	01/29/94	629.90	632.91	615.20	605.20	NP	0.00	17.02	14.01	615.89	Yes	
MW-30S	04/27/94	629.90	632.91	615.20	605.20	NP	0.00	15.53	12.52	617.38	Yes	
MW-30S	06/14/94	629.90	632.91	615.20	605.20	NP	0.00	14.78	11.77	618.13	Yes	
MW-30S	07/21/94	629.90	632.91	615.20	605.20	NP	0.00	15.25	12.24	617.66	Yes	
MW-30S	08/30/94	629.90	632.91	615.20	605.20	NP	0.00	16.59	13.58	616.32	Yes	
MW-30S	10/25/94	629.90	632.91	615.20	605.20	NP	0.00	15.85	12.84	617.06	Yes	
MW-30S	10/28/94	629.90	632.91	615.20	605.20	NP	0.00	15.25	12.24	617.66	Yes	
MW-30S	02/01/95	629.90	632.91	615.20	605.20	NP	0.00	18.20	15.19	614.71	No	
MW-30S	04/04/95	629.90	632.91	615.20	605.20	NP	0.00	17.78	14.77	615.13	No	
MW-30S	07/12/95	629.90	632.91	615.20	605.20	NP	0.00	16.61	13.60	616.30	Yes	
MW-30S	08/18/95	629.90	632.91	615.20	605.20	NP	0.00	17.28	14.27	615.63	Yes	
MW-30S	11/13/95	629.90	632.91	615.20	605.20	NP	0.00	14.80	11.79	618.11	Yes	
MW-30S	03/13/96	629.90	632.91	615.20	605.20	NP	0.00	17.55	14.54	615.36	Yes	
MW-30S	04/22/96	629.90	632.91	615.20	605.20	NP	0.00	14.92	11.91	617.99	Yes	
MW-30S	10/08/96	629.90	632.91	615.20	605.20	NP	0.00	14.22	11.21	618.69	Yes	
MW-30S	04/29/97	629.90	632.91	615.20	605.20	NP	0.00	12.70	9.69	620.21	Yes	
MW-30S	11/03/98	629.90	632.91	615.20	605.20	NP	0.00	17.91	14.90	615.00	No	
MW-30S	04/26/00	629.90	632.91	615.20	605.20	NP	0.00	16.24	13.23	616.67	Yes	
MW-30S	10/10/00	629.90	632.91	615.20	605.20	NP	0.00	17.66	14.65	615.25	Yes	
MW-30S	10/24/01	629.90	632.91	615.20	605.20	NP	0.00	17.67	14.66	615.24	Yes	
MW-30S	01/22/02	629.90	632.91	615.20	605.20	NP	0.00	18.11	15.10	614.80	No	
MW-30S	02/26/02	629.90	632.91	615.20	605.20	NP	0.00	18.53	15.52	614.38	No	
MW-30S	04/23/02	629.90	632.91	615.20	605.20	NP	0.00	17.83	14.82	615.08	No	
MW-30S	08/20/02	629.90	632.91	615.20	605.20	NP	0.00	16.52	13.51	616.39	Yes	
MW-30S	09/30/02	629.90	632.91	615.20	605.20	NP	0.00	16.27	13.26	616.64	Yes	
MW-30S	11/05/02	629.90	632.91	615.20	605.20	NP	0.00	15.53	12.52	617.38	Yes	
MW-30S	12/23/02	629.90	632.91	615.20	605.20	NP	0.00	17.42	14.41	615.49	Yes	
MW-30S	01/28/03	629.90	632.91	615.20	605.20	NP	0.00	18.01	15.00	614.90	No	
MW-30S	02/19/03	629.90	632.91	615.20	605.20	NP	0.00	18.28	15.27	614.63	No	
MW-30S	04/17/03	629.90	632.91	615.20	605.20	NP	0.00	18.78	15.77	614.13	No	
MW-30S	10/20/03	629.90	632.91	615.20	605.20	NP	0.00	18.66	15.65	614.25	No	
MW-30S	12/03/03	629.90	632.91	615.20	605.20	NP	0.00	18.89	15.88	614.02	No	
MW-30S	04/19/04	630.10	633.05	615.20	605.20	NP	0.00	19.23	16.28	613.82	No	
MW-30S	07/28/04	630.10	633.05	615.20	605.20	NP	0.00	17.67	14.72	615.38	Yes	
MW-30S	11/16/04	630.10	633.05	615.20	605.20	NP	0.00	16.50	13.55	616.55	Yes	
MW-30S	04/18/05	630.10	633.05	615.20	605.20	NP	0.00	16.50	13.55	616.55	Yes	
MW-30S	10/11/05	630.10	633.05	615.20	605.20	NP	0.00	16.23	13.28	616.82	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30S	05/23/06	630.10	633.05	615.20	605.20	NP	0.00	15.05	12.10	618.00	Yes	
MW-30S	10/16/06	630.10	633.05	615.20	605.20	NP	0.00	17.73	14.78	615.32	Yes	
MW-30S	04/23/07	630.10	633.05	615.20	605.20	NP	0.00	18.45	15.50	614.60	No	Water low in well
MW-30S	09/25/07	630.10	633.05	615.20	605.20	NP	0.00	18.52	15.57	614.53	No	
MW-30S	05/01/08	630.10	633.05	615.20	605.20	NP	0.00	15.57	12.62	617.48	Yes	
MW-30S	10/20/08	630.10	633.05	615.20	605.20	NP	0.00	14.84	11.89	618.21	Yes	
MW-30S	04/18/09	630.10	633.05	615.20	605.20	NP	0.00	15.87	12.92	617.18	Yes	
MW-30S	08/31/11	630.10	633.05	615.20	605.20	NP	0.00	14.76	11.81	618.29	Yes	
MW-30S	10/10/11	630.10	633.05	615.20	605.20	NP	0.00	16.19	13.24	616.86	Yes	
MW-30S	01/04/12	630.10	633.05	615.20	605.20	NP	0.00	17.78	14.83	615.27	Yes	
MW-30S	04/16/12	630.10	633.05	615.20	605.20	NP	0.00	18.44	15.49	614.61	No	
MW-30S	06/26/12	630.10	633.05	615.20	605.20	NP	0.00	13.68	10.73	619.37	Yes	
MW-30S	09/30/12	630.10	633.05	615.20	605.20	NP	0.00	17.43	14.48	615.62	Yes	
MW-30S	12/17/12	630.10	633.05	615.20	605.20	NP	0.00	18.28	15.33	614.77	No	
MW-30S	03/25/13	630.10	633.05	615.20	605.20	NP	0.00	18.37	15.42	614.68	No	
MW-30S	05/05/13	630.10	633.05	615.20	605.20	NP	0.00	19.14	16.19	613.91	No	
MW-30S	10/01/13	630.10	633.05	615.20	605.20	NP	0.00	17.94	14.99	615.11	No	
MW-30S	05/21/14	630.10	633.05	615.20	605.20	NP	0.00	14.79	11.84	618.26	Yes	
MW-30S	10/30/14	630.10	633.05	615.20	605.20	NP	0.00	15.75	12.80	617.30	Yes	
MW-30S	05/05/15	630.10	633.05	615.20	605.20	NP	0.00	17.49	14.54	615.56	Yes	
MW-30S	10/07/15	630.10	633.05	615.20	605.20	NP	0.00	15.78	12.83	617.27	Yes	OWLD/ 15.72 NWLD
MW-30S	05/23/16	630.10	633.05	615.20	605.20	NP	0.00	13.09	10.14	619.96	Yes	
MW-30S	10/03/16	630.10	633.05	615.20	605.20	NP	0.00	15.09	12.14	617.96	Yes	
MW-30S	06/29/17	630.10	633.05	615.20	605.20	NP	0.00	14.32	11.37	618.73	Yes	
MW-30S	05/14/18	630.10	633.05	615.20	605.20	NP	0.00	16.00	13.05	617.05	Yes	
MW-30S	06/18/18	630.10	633.05	615.20	605.20	NP	0.00	14.20	11.25	618.85	Yes	
MW-30S	06/27/18	630.10	633.05	615.20	605.20	NP	0.00	14.20	11.25	618.85	Yes	
MW-30S	10/08/18	630.10	633.05	615.20	605.20	NP	0.00	15.67	12.72	617.38	Yes	
MW-30D	06/14/94	630.00	633.04	578.29	575.29	NP	0.00	16.85	13.81	616.19	Yes	
MW-30D	07/21/94	630.00	633.04	578.29	575.29	NP	0.00	17.12	14.08	615.92	Yes	
MW-30D	10/25/94	630.00	633.04	578.29	575.29	NP	0.00	17.48	14.44	615.56	Yes	
MW-30D	10/28/94	630.00	633.04	578.29	575.29	NP	0.00	17.08	14.04	615.96	Yes	
MW-30D	04/04/95	630.00	633.04	578.29	575.29	NP	0.00	19.24	16.20	613.80	Yes	
MW-30D	07/12/95	630.00	633.04	578.29	575.29	NP	0.00	18.27	15.23	614.77	Yes	
MW-30D	08/18/95	630.00	633.04	578.29	575.29	NP	0.00	18.95	15.91	614.09	Yes	
MW-30D	11/13/95	630.00	633.04	578.29	575.29	NP	0.00	17.03	13.99	616.01	Yes	
MW-30D	04/22/96	630.00	633.04	578.29	575.29	NP	0.00	17.05	14.01	615.99	Yes	
MW-30D	10/08/96	630.00	633.04	578.29	575.29	NP	0.00	16.20	13.16	616.84	Yes	
MW-30D	04/29/97	630.00	633.04	578.29	575.29	NP	0.00	15.30	12.26	617.74	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30D	11/03/98	630.00	633.04	578.29	575.29	NP	0.00	19.28	16.24	613.76	Yes	
MW-30D	03/02/99	630.00	633.04	578.29	575.29	NP	0.00	19.25	16.21	613.79	Yes	
MW-30D	04/26/00	630.00	633.04	578.29	575.29	NP	0.00	18.23	15.19	614.81	Yes	
MW-30D	10/10/00	630.00	633.04	578.29	575.29	NP	0.00	19.30	16.26	613.74	Yes	
MW-30D	10/24/01	630.00	633.04	578.29	575.29	NP	0.00	19.20	16.16	613.84	Yes	
MW-30D	04/23/02	630.00	633.04	578.29	575.29	NP	0.00	19.28	16.24	613.76	Yes	
MW-30D	11/05/02	630.00	633.04	578.29	575.29	NP	0.00	17.66	14.62	615.38	Yes	
MW-30D	04/17/03	630.00	633.04	578.29	575.29	NP	0.00	20.23	17.19	612.81	Yes	
MW-30D	10/20/03	630.00	633.04	578.29	575.29	NP	0.00	20.03	16.99	613.01	Yes	
MW-30D	04/19/04	630.15	633.15	578.29	575.29	NP	0.00	20.24	17.24	612.91	Yes	
MW-30D	11/16/04	630.15	633.15	578.29	575.29	NP	0.00	18.33	15.33	614.82	Yes	
MW-30D	04/18/05	630.15	633.15	578.29	575.29	NP	0.00	18.31	15.31	614.84	Yes	
MW-30D	10/11/05	630.15	633.15	578.29	575.29	NP	0.00	18.95	15.95	614.20	Yes	
MW-30D	05/23/06	630.15	633.15	578.29	575.29	NP	0.00	17.37	14.37	615.78	Yes	
MW-30D	10/16/06	630.15	633.15	578.29	575.29	NP	0.00	19.13	16.13	614.02	Yes	
MW-30D	04/23/07	630.15	633.15	578.29	575.29	NP	0.00	19.62	16.62	613.53	Yes	
MW-30D	09/25/07	630.15	633.15	578.29	575.29	NP	0.00	19.69	16.69	613.46	Yes	
MW-30D	05/01/08	630.15	633.15	578.29	575.29	NP	0.00	17.63	14.63	615.52	Yes	
MW-30D	10/20/08	630.15	633.15	578.29	575.29	NP	0.00	16.69	13.69	616.46	Yes	
MW-30D	04/18/09	630.15	633.15	578.29	575.29	NP	0.00	17.84	14.84	615.31	Yes	
MW-30D	08/31/11	630.15	633.15	578.29	575.29	NP	0.00	16.58	13.58	616.57	Yes	
MW-30D	10/10/11	630.15	633.15	578.29	575.29	NP	0.00	17.92	14.92	615.23	Yes	
MW-30D	01/04/12	630.15	633.15	578.29	575.29	NP	0.00	19.22	16.22	613.93	Yes	
MW-30D	04/16/12	630.15	633.15	578.29	575.29	NP	0.00	19.50	16.50	613.65	Yes	
MW-30D	06/26/12	630.15	633.15	578.29	575.29	NP	0.00	16.22	13.22	616.93	Yes	
MW-30D	09/30/12	630.15	633.15	578.29	575.29	NP	0.00	18.99	15.99	614.16	Yes	
MW-30D	12/17/12	630.15	633.15	578.29	575.29	NP	0.00	19.60	16.60	613.55	Yes	
MW-30D	03/25/13	630.15	633.15	578.29	575.29	NP	0.00	20.53	17.53	612.62	Yes	
MW-30D	05/05/13	630.15	633.15	578.29	575.29	NP	0.00	19.52	16.52	613.63	Yes	
MW-30D	10/01/13	630.15	633.15	578.29	575.29	NP	0.00	19.17	16.17	613.98	Yes	
MW-30D	05/21/14	630.15	633.15	578.29	575.29	NP	0.00	16.76	13.76	616.39	Yes	
MW-30D	10/30/14	630.15	633.15	578.29	575.29	NP	0.00	17.26	14.26	615.89	Yes	
MW-30D	05/05/15	630.15	633.15	578.29	575.29	NP	0.00	18.93	15.93	614.22	Yes	
MW-30D	10/07/15	630.15	633.15	578.29	575.29	NP	0.00	17.51	14.51	615.64	Yes	
MW-30D	05/23/16	630.15	633.15	578.29	575.29	NP	0.00	15.53	12.53	617.62	Yes	
MW-30D	10/03/16	630.15	633.15	578.29	575.29	NP	0.00	15.68	12.68	617.47	Yes	
MW-30D	06/14/17	630.15	633.15	578.29	575.29	NP	0.00	15.61	12.61	617.54	Yes	
MW-30D	10/03/17	630.15	633.15	578.29	575.29	NP	0.00	14.55	11.55	618.60	Yes	
MW-30D	05/14/18	630.15	633.15	578.29	575.29	NP	0.00	17.74	14.74	615.41	Yes	
MW-30D	06/18/18	630.15	633.15	578.29	575.29	NP	0.00	16.45	13.45	616.70	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30D	06/27/18	630.15	633.15	578.29	575.29	NP	0.00	16.30	13.30	616.85	Yes	
MW-30D	10/08/18	630.15	633.15	578.29	575.29	NP	0.00	17.28	14.28	615.87	Yes	
MW-30DD	07/12/95	630.00	632.98	548.63	545.63	NP	0.00	18.58	15.60	614.40	Yes	
MW-30DD	08/08/95	630.00	632.98	548.63	545.63	NP	0.00	18.80	15.82	614.18	Yes	
MW-30DD	11/13/95	630.00	632.98	548.63	545.63	NP	0.00	17.05	14.07	615.93	Yes	
MW-30DD	04/22/96	630.00	632.98	548.63	545.63	NP	0.00	17.41	14.43	615.57	Yes	
MW-30DD	10/08/96	630.00	632.98	548.63	545.63	NP	0.00	16.69	13.71	616.29	Yes	
MW-30DD	04/29/97	630.00	632.98	548.63	545.63	NP	0.00	16.45	13.47	616.53	Yes	
MW-30DD	11/03/98	630.00	632.98	548.63	545.63	NP	0.00	19.35	16.37	613.63	Yes	
MW-30DD	03/02/99	630.00	632.98	548.63	545.63	NP	0.00	19.12	16.14	613.86	Yes	
MW-30DD	04/26/00	630.00	632.98	548.63	545.63	NP	0.00	18.17	15.19	614.81	Yes	
MW-30DD	10/10/00	630.00	632.98	548.63	545.63	NP	0.00	19.34	16.36	613.64	Yes	
MW-30DD	04/23/02	630.00	632.98	548.63	545.63	NP	0.00	19.37	16.39	613.61	Yes	
MW-30DD	11/05/02	630.00	632.98	548.63	545.63	NP	0.00	17.86	14.88	615.12	Yes	
MW-30DD	04/17/03	630.00	632.98	548.63	545.63	NP	0.00	20.31	17.33	612.67	Yes	
MW-30DD	10/20/03	630.00	632.98	548.63	545.63	NP	0.00	20.10	17.12	612.88	Yes	Very silty
MW-30DD	04/19/04	630.17	633.05	548.63	545.63	NP	0.00	20.08	17.20	612.97	Yes	Very silty
MW-30DD	11/16/04	630.17	633.05	548.63	545.63	NP	0.00	18.36	15.48	614.69	Yes	
MW-30DD	04/18/05	630.17	633.05	548.63	545.63	NP	0.00	18.92	16.04	614.13	Yes	
MW-30DD	10/11/05	630.17	633.05	548.63	545.63	NP	0.00	18.15	15.27	614.90	Yes	
MW-30DD	05/23/06	630.17	633.05	548.63	545.63	NP	0.00	17.53	14.65	615.52	Yes	
MW-30DD	10/16/06	630.17	633.05	548.63	545.63	NP	0.00	19.12	16.24	613.93	Yes	
MW-30DD	04/23/07	630.17	633.05	548.63	545.63	NP	0.00	19.67	16.79	613.38	Yes	
MW-30DD	09/25/07	630.17	633.05	548.63	545.63	NP	0.00	19.78	16.90	613.27	Yes	
MW-30DD	05/01/08	630.17	633.05	548.63	545.63	NP	0.00	17.93	15.05	615.12	Yes	
MW-30DD	10/20/08	630.17	633.05	548.63	545.63	NP	0.00	16.71	13.83	616.34	Yes	
MW-30DD	04/18/09	630.17	633.05	548.63	545.63	NP	0.00	18.05	15.17	615.00	Yes	
MW-30DD	08/31/11	630.17	633.05	548.63	545.63	NP	0.00	16.46	13.58	616.59	Yes	
MW-30DD	10/10/11	630.17	633.05	548.63	545.63	NP	0.00	17.85	14.97	615.20	Yes	
MW-30DD	01/04/12	630.17	633.05	548.63	545.63	NP	0.00	19.34	16.46	613.71	Yes	
MW-30DD	04/16/12	630.17	633.05	548.63	545.63	NP	0.00	19.57	16.69	613.48	Yes	
MW-30DD	06/26/12	630.17	633.05	548.63	545.63	NP	0.00	16.51	13.63	616.54	Yes	
MW-30DD	09/30/12	630.17	633.05	548.63	545.63	NP	0.00	19.13	16.25	613.92	Yes	
MW-30DD	12/17/12	630.17	633.05	548.63	545.63	NP	0.00	19.71	16.83	613.34	Yes	
MW-30DD	03/25/13	630.17	633.05	548.63	545.63	NP	0.00	20.49	17.61	612.56	Yes	
MW-30DD	05/05/13	630.17	633.05	548.63	545.63	NP	0.00	19.58	16.70	613.47	Yes	
MW-30DD	10/01/13	630.17	633.05	548.63	545.63	NP	0.00	19.25	16.37	613.80	Yes	
MW-30DD	05/20/14	630.17	633.05	548.63	545.63	NP	0.00	17.01	14.13	616.04	Yes	
MW-30DD	10/31/14	630.17	633.05	548.63	545.63	NP	0.00	17.53	14.65	615.52	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30DD	05/04/15	630.17	633.05	548.63	545.63	NP	0.00	19.03	16.15	614.02	Yes	
MW-30DD	10/05/15	630.17	633.05	548.63	545.63	NP	0.00	17.26	14.38	615.79	Yes	
MW-30DD	05/23/16	630.17	633.05	548.63	545.63	NP	0.00	15.71	12.83	617.34	Yes	
MW-30DD	10/03/16	630.17	633.05	548.63	545.63	NP	0.00	16.83	13.95	616.22	Yes	
MW-30DD	06/29/17	630.17	633.05	548.63	545.63	NP	0.00	16.29	13.41	616.76	Yes	
MW-30DD	06/18/18	630.17	633.05	548.63	545.63	NP	0.00	16.70	13.82	616.35	Yes	
MW-30DD	10/08/18	630.17	633.05	548.63	545.63	NP	0.00	17.43	14.55	615.62	Yes	
MW-30DDD	06/18/18	630.10	632.74	534.10	531.10	NP	0.00	16.38	13.74	616.36	Yes	
MW-30DDD	06/27/18	630.10	632.74	534.10	531.10	NP	0.00	16.27	13.63	616.47	Yes	
MW-30DDD	10/08/18	630.10	632.74	534.10	531.10	NP	0.00	17.38	14.74	615.36	Yes	
MW-33	08/06/91	630.40	632.74	616.84	606.84	NP	0.00	12.78	10.44	619.96	Yes	
MW-33	10/08/91	630.40	632.74	616.84	606.84	NP	0.00	13.22	10.88	619.52	Yes	
MW-33	01/07/92	630.40	632.74	616.84	606.84	NP	0.00	14.29	11.95	618.45	Yes	
MW-33	10/14/92	630.40	632.74	616.84	606.84	NP	0.00	15.49	13.15	617.25	Yes	
MW-33	06/25/93	630.40	632.74	616.84	606.84	NP	0.00	9.70	7.36	623.04	Yes	
MW-33	10/28/93	630.40	632.74	616.84	606.84	NP	0.00	15.78	13.44	616.96	Yes	
MW-33	01/29/94	630.40	632.74	616.84	606.84	NP	0.00	16.86	14.52	615.88	No	
MW-33	04/27/94	630.40	632.74	616.84	606.84	NP	0.00	15.19	12.85	617.55	Yes	
MW-33	07/21/94	630.40	632.74	616.84	606.84	NP	0.00	14.97	12.63	617.77	Yes	
MW-33	10/25/94	630.40	632.74	616.84	606.84	NP	0.00	15.91	13.57	616.83	No	
MW-33	10/28/94	630.40	632.74	616.84	606.84	NP	0.00	15.62	13.28	617.12	Yes	
MW-33	02/01/95	630.40	632.74	616.84	606.84	NP	0.00	17.62	15.28	615.12	No	
MW-33	04/04/95	630.40	632.74	616.84	606.84	NP	0.00	17.55	15.21	615.19	No	
MW-33	07/12/95	630.40	632.74	616.84	606.84	NP	0.00	16.45	14.11	616.29	No	
MW-33	11/13/95	630.40	632.74	616.84	606.84	NP	0.00	14.76	12.42	617.98	Yes	
MW-33	03/13/96	630.40	632.74	616.84	606.84	NP	0.00	17.60	15.26	615.14	No	
MW-33	04/22/96	630.40	632.74	616.84	606.84	NP	0.00	14.37	12.03	618.37	Yes	
MW-33	10/08/96	630.40	632.74	616.84	606.84	NP	0.00	14.29	11.95	618.45	Yes	
MW-33	04/29/97	630.40	632.74	616.84	606.84	NP	0.00	12.35	10.01	620.39	Yes	
MW-33	11/03/98	630.40	632.74	616.84	606.84	NP	0.00	18.09	15.75	614.65	No	
MW-33	03/02/99	630.40	632.74	616.84	606.84	NP	0.00	18.00	15.66	614.74	No	
MW-33	04/26/00	630.40	632.74	616.84	606.84	NP	0.00	15.92	13.58	616.82	No	
MW-33	04/24/01	630.40	632.74	616.84	606.84	NP	0.00	16.57	14.23	616.17	No	
MW-33	10/23/01	630.40	632.74	616.84	606.84	NP	0.00	17.74	15.40	615.00	No	
MW-33	04/23/02	630.40	632.74	616.84	606.84	NP	0.00	17.85	15.51	614.89	No	
MW-33	08/20/02	630.40	632.74	616.84	606.84	NP	0.00	16.47	14.13	616.27	No	
MW-33	11/05/02	630.40	632.74	616.84	606.84	NP	0.00	15.54	13.20	617.20	Yes	
MW-33	12/23/02	630.40	632.74	616.84	606.84	NP	0.00	17.17	14.83	615.57	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-33	01/28/03	630.40	632.74	616.84	606.84	NP	0.00	17.80	15.46	614.94	No	
MW-33	02/19/03	630.40	632.74	616.84	606.84	NP	0.00	18.18	15.84	614.56	No	
MW-33	04/17/03	630.40	632.74	616.84	606.84	NP	0.00	18.80	16.46	613.94	No	
MW-33	10/20/03	630.40	632.74	616.84	606.84	NP	0.00	18.66	16.32	614.08	No	
MW-33	12/03/03	630.40	632.74	616.84	606.84	NP	0.00	18.95	16.61	613.79	No	
MW-33	04/19/04	630.61	632.85	616.84	606.84	NP	0.00	19.00	16.76	613.85	No	
MW-33	07/28/04	630.61	632.85	616.84	606.84	NP	0.00	17.45	15.21	615.40	No	
MW-33	11/16/04	630.61	632.85	616.84	606.84	NP	0.00	16.44	14.20	616.41	No	
MW-33	04/18/05	630.61	632.85	616.84	606.84	NP	0.00	16.48	14.24	616.37	No	
MW-33	10/11/05	630.61	632.85	616.84	606.84	NP	0.00	16.25	14.01	616.60	No	
MW-33	05/23/06	630.61	632.85	616.84	606.84	NP	0.00	14.54	12.30	618.31	Yes	
MW-33	10/16/06	630.61	632.85	616.84	606.84	NP	0.00	17.79	15.55	615.06	No	
MW-33	04/23/07	630.61	632.85	616.84	606.84	NP	0.00	18.24	16.00	614.61	No	
MW-33	09/25/07	630.61	632.85	616.84	606.84	NP	0.00	18.51	16.27	614.34	No	
MW-33	05/01/08	630.61	632.85	616.84	606.84	NP	0.00	14.95	12.71	617.90	Yes	
MW-33	10/20/08	630.61	632.85	616.84	606.84	NP	0.00	14.82	12.58	618.03	Yes	
MW-33	08/31/11	630.61	632.85	616.84	606.84	NP	0.00	14.33	12.09	618.52	Yes	
MW-33	10/10/11	630.61	632.85	616.84	606.84	NP	0.00	15.86	13.62	616.99	Yes	
MW-33	01/04/12	630.61	632.85	616.84	606.84	NP	0.00	17.56	15.32	615.29	No	
MW-33	04/16/12	630.61	632.85	616.84	606.84	NP	0.00	18.23	15.99	614.62	No	
MW-33	06/26/12	630.61	632.85	616.84	606.84	NP	0.00	12.72	10.48	620.13	Yes	
MW-33	09/30/12	630.61	632.85	616.84	606.84	NP	0.00	17.14	14.90	615.71	No	
MW-33	12/17/12	630.61	632.85	616.84	606.84	NP	0.00	18.20	15.96	614.65	No	
MW-33	03/25/13	630.61	632.85	616.84	606.84	NP	0.00	19.10	16.86	613.75	No	
MW-33	05/05/13	630.61	632.85	616.84	606.84	NP	0.00	18.19	15.95	614.66	No	
MW-33	05/20/14	630.61	632.85	616.84	606.84	NP	0.00	13.87	11.63	618.98	Yes	
MW-33	10/29/14	630.61	632.85	616.84	606.84	NP	0.00	15.40	13.16	617.45	Yes	
MW-33	05/06/15	630.61	632.85	616.84	606.84	NP	0.00	17.27	15.03	615.58	No	
MW-33	10/05/05	630.61	632.85	616.84	606.84	NP	0.00	16.76	14.52	616.09	No	
MW-33	05/23/16	630.61	632.85	616.84	606.84	NP	0.00	12.49	10.25	620.36	Yes	
MW-33	10/03/16	630.61	632.85	616.84	606.84	NP	0.00	15.07	12.83	617.78	Yes	
MW-33	06/29/17	630.61	632.85	616.84	606.84	NP	0.00	13.68	11.44	619.17	Yes	
MW-34	08/06/91	627.70	629.37	608.97	598.97	NP	0.00	12.55	10.88	616.82	Yes	
MW-34	10/08/91	627.70	629.37	608.97	598.97	NP	0.00	12.55	10.88	616.82	Yes	
MW-34	01/07/92	627.70	629.37	608.97	598.97	NP	0.00	12.99	11.32	616.38	Yes	
MW-34	10/14/92	627.70	629.37	608.97	598.97	NP	0.00	13.47	11.80	615.90	Yes	
MW-34	06/25/93	627.70	629.37	608.97	598.97	NP	0.00	10.32	8.65	619.05	Yes	
MW-34	10/28/93	627.70	629.37	608.97	598.97	NP	0.00	13.80	12.13	615.57	Yes	
MW-34	01/29/94	627.70	629.37	608.97	598.97	NP	0.00	14.41	12.74	614.96	Yes	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-34	04/27/94	627.70	629.37	608.97	598.97	NP	0.00	13.05	11.38	616.32	Yes	
MW-34	07/21/94	627.70	629.37	608.97	598.97	NP	0.00	13.17	11.50	616.20	Yes	
MW-34	10/25/94	627.70	629.37	608.97	598.97	NP	0.00	13.58	11.91	615.79	Yes	
MW-34	10/28/94	627.70	629.37	608.97	598.97	NP	0.00	13.34	11.67	616.03	Yes	
MW-34	04/04/95	627.70	629.37	608.97	598.97	NP	0.00	15.93	14.26	613.44	Yes	
MW-34	11/13/95	627.70	629.37	608.97	598.97	NP	0.00	12.73	11.06	616.64	Yes	
MW-34	04/22/96	627.70	629.37	608.97	598.97	NP	0.00	12.41	10.74	616.96	Yes	
MW-34	10/08/96	627.70	629.37	608.97	598.97	NP	0.00	12.87	11.20	616.50	Yes	
MW-34	04/29/97	627.70	629.37	608.97	598.97	NP	0.00	11.60	9.93	617.77	Yes	
MW-34	11/03/98	627.70	629.37	608.97	598.97	NP	0.00	15.20	13.53	614.17	Yes	
MW-34	03/02/99	627.70	629.37	608.97	598.97	NP	0.00	15.28	13.61	614.09	Yes	
MW-34	04/26/00	627.70	629.37	608.97	598.97	NP	0.00	13.67	12.00	615.70	Yes	
MW-34	10/10/00	627.70	629.37	608.97	598.97	NP	0.00	14.89	13.22	614.48	Yes	
MW-34	10/23/01	627.70	629.37	608.97	598.97	NP	0.00	15.09	13.42	614.28	Yes	
MW-34	04/23/02	627.70	629.37	608.97	598.97	NP	0.00	14.92	13.25	614.45	Yes	
MW-34	11/05/02	627.70	629.37	608.97	598.97	NP	0.00	13.15	11.48	616.22	Yes	
MW-34	04/17/03	627.70	629.37	608.97	598.97	NP	0.00	15.90	14.23	613.47	Yes	
MW-34	10/20/03	627.70	629.37	608.97	598.97	NP	0.00	15.64	13.97	613.73	Yes	
MW-34	04/19/04	627.72	629.45	608.97	598.97	NP	0.00	15.72	13.99	613.73	Yes	
MW-34	11/16/04	627.72	629.45	608.97	598.97	NP	0.00	13.47	11.74	615.98	Yes	
MW-34	04/18/05	627.72	629.45	608.97	598.97	NP	0.00	13.73	12.00	615.72	Yes	
MW-34	10/11/05	627.72	629.45	608.97	598.97	NP	0.00	13.51	11.78	615.94	Yes	
MW-34	05/23/06	627.72	629.45	608.97	598.97	NP	0.00	12.88	11.15	616.57	Yes	
MW-34	10/16/06	627.72	629.45	608.97	598.97	NP	0.00	14.99	13.26	614.46	Yes	
MW-34	04/23/07	627.72	629.45	608.97	598.97	NP	0.00	15.50	13.77	613.95	Yes	
MW-34	09/25/07	627.72	629.45	608.97	598.97	NP	0.00	15.42	13.69	614.03	Yes	
MW-34	05/01/08	627.72	629.45	608.97	598.97	NP	0.00	13.04	11.31	616.41	Yes	
MW-34	10/20/08	627.72	629.45	608.97	598.97	NP	0.00	12.76	11.03	616.69	Yes	
MW-34	04/18/09	627.72	629.45	608.97	598.97	NP	0.00	13.78	12.05	615.67	Yes	
MW-34	10/11/09	627.72	629.45	608.97	598.97	NP	0.00	14.88	13.15	614.57	Yes	
MW-34	04/28/10	627.72	629.45	608.97	598.97	NP	0.00	14.83	13.10	614.62	Yes	
MW-34	10/25/10	627.72	629.45	608.97	598.97	NP	0.00	13.44	11.71	616.01	Yes	
MW-34	04/25/11	627.72	629.45	608.97	598.97	NP	0.00	13.78	12.05	615.67	Yes	
MW-34	10/10/11	627.72	629.45	608.97	598.97	NP	0.00	13.99	12.26	615.46	Yes	
MW-34	01/04/12	627.72	629.45	608.97	598.97	NP	0.00	15.14	13.41	614.31	Yes	
MW-34	04/16/12	627.72	629.45	608.97	598.97	NP	0.00	15.78	14.05	613.67	Yes	
MW-34	06/26/12	627.72	629.45	608.97	598.97	NP	0.00	12.29	10.56	617.16	Yes	
MW-34	09/30/12	627.72	629.45	608.97	598.97	NP	0.00	14.82	13.09	614.63	Yes	
MW-34	12/17/12	627.72	629.45	608.97	598.97	NP	0.00	15.62	13.89	613.83	Yes	
MW-34	05/05/13	627.72	629.45	608.97	598.97	NP	0.00	15.64	13.91	613.81	Yes	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-34	10/01/13	627.72	629.45	608.97	598.97	NP	0.00	14.90	13.17	614.55	Yes	
MW-34	05/20/14	627.72	629.45	608.97	598.97	NP	0.00	11.74	10.01	617.71	Yes	
MW-34	10/29/14	627.72	629.45	608.97	598.97	NP	0.00	13.43	11.70	616.02	Yes	
MW-34	05/06/15	627.72	629.45	608.97	598.97	NP	0.00	14.58	12.85	614.87	Yes	
MW-34	10/06/15	627.72	629.45	608.97	598.97	NP	0.00	13.10	11.37	616.35	Yes	
MW-34	05/23/16	627.72	629.45	608.97	598.97	NP	0.00	12.02	10.29	617.43	Yes	
MW-34	10/03/16	627.72	629.45	608.97	598.97	NP	0.00	13.18	11.45	616.27	Yes	
MW-34	06/29/17	627.72	629.45	608.97	598.97	NP	0.00	12.71	10.98	616.74	Yes	
MW-35	08/06/91	637.20	639.58	619.08	609.08	NP	0.00	16.96	14.58	622.62	Yes	
MW-35	10/08/91	637.20	639.58	619.08	609.08	NP	0.00	16.85	14.47	622.73	Yes	
MW-35	01/07/92	637.20	639.58	619.08	609.08	NP	0.00	17.28	14.90	622.30	Yes	
MW-35	10/14/92	637.20	639.58	619.08	609.08	NP	0.00	17.59	15.21	621.99	Yes	
MW-35	06/25/93	637.20	639.58	619.08	609.08	NP	0.00	14.39	12.01	625.19	Yes	
MW-35	10/28/93	637.20	639.58	619.08	609.08	NP	0.00	18.09	15.71	621.49	Yes	
MW-35	01/29/94	637.20	639.58	619.08	609.08	NP	0.00	19.41	17.03	620.17	Yes	
MW-35	04/27/94	637.20	639.58	619.08	609.08	NP	0.00	17.43	15.05	622.15	Yes	
MW-35	07/21/94	637.20	639.58	619.08	609.08	NP	0.00	17.35	14.97	622.23	Yes	
MW-35	10/25/94	637.20	639.58	619.08	609.08	NP	0.00	17.35	14.97	622.23	Yes	
MW-35	10/28/94	637.20	639.58	619.08	609.08	NP	0.00	16.93	14.55	622.65	Yes	
MW-35	02/01/95	637.20	639.58	619.08	609.08	NP	0.00	19.91	17.53	619.67	Yes	
MW-35	04/04/95	637.20	639.58	619.08	609.08	NP	0.00	20.35	17.97	619.23	Yes	
MW-35	07/12/95	637.20	639.58	619.08	609.08	NP	0.00	18.88	16.50	620.70	Yes	
MW-35	11/13/95	637.20	639.58	619.08	609.08	NP	0.00	17.05	14.67	622.53	Yes	
MW-35	03/13/96	637.20	639.58	619.08	609.08	NP	0.00	20.22	17.84	619.36	Yes	
MW-35	04/22/96	637.20	639.58	619.08	609.08	NP	0.00	17.12	14.74	622.46	Yes	
MW-35	10/08/96	637.20	639.58	619.08	609.08	NP	0.00	16.83	14.45	622.75	Yes	
MW-35	04/29/97	637.20	639.58	619.08	609.08	NP	0.00	13.95	11.57	625.63	Yes	
MW-35	11/03/98	637.20	639.58	619.08	609.08	NP	0.00	19.91	17.53	619.67	Yes	
MW-35	03/02/99	637.20	639.58	619.08	609.08	NP	0.00	21.59	19.21	617.99	No	
MW-35	04/26/00	637.20	639.58	619.08	609.08	NP	0.00	18.59	16.21	620.99	Yes	
MW-35	10/10/00	637.20	639.58	619.08	609.08	NP	0.00	21.90	19.52	617.68	No	
MW-35	10/23/01	637.20	639.58	619.08	609.08	NP	0.00	20.22	17.84	619.36	Yes	
MW-35	01/22/02	637.20	641.16	619.08	609.08	NP	0.00	22.09	18.13	619.07	No	
MW-35	02/26/02	637.20	641.16	619.08	609.08	NP	0.00	22.85	18.89	618.31	No	
MW-35	03/20/02	637.20	641.16	619.08	609.08	NP	0.00	23.07	19.11	618.09	No	
MW-35	04/23/02	637.20	641.16	619.08	609.08	NP	0.00	21.59	17.63	619.57	Yes	
MW-35	05/15/02	637.20	639.58	619.08	609.08	NP	0.00	18.47	16.09	621.11	Yes	
MW-35	08/20/02	637.20	639.58	619.08	609.08	NP	0.00	19.30	16.92	620.28	Yes	
MW-35	09/30/02	637.20	639.58	619.08	609.08	NP	0.00	18.78	16.40	620.80	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-35	11/05/02	637.20	639.58	619.08	609.08	NP	0.00	19.82	17.44	619.76	Yes	
MW-35	12/23/02	637.20	639.58	619.08	609.08	NP	0.00	21.83	19.45	617.75	No	
MW-35	01/28/03	637.20	639.58	619.08	609.08	NP	0.00	22.56	20.18	617.02	No	
MW-35	02/19/03	637.20	639.58	619.08	609.08	NP	0.00	23.12	20.74	616.46	No	
MW-35	04/17/03	637.20	639.58	619.08	609.08	NP	0.00	21.72	19.34	617.86	No	
MW-35	06/10/03	637.20	641.16	619.08	609.08	NP	0.00	22.07	18.11	619.09	Yes	
MW-35	10/20/03	637.20	641.16	619.08	609.08	NP	0.00	21.27	17.31	619.89	Yes	
MW-35	12/03/03	637.20	641.16	619.08	609.08	NP	0.00	23.21	19.25	617.95	No	
MW-35	04/19/04	637.55	639.74	619.08	609.08	NP	0.00	23.41	21.22	616.33	No	
MW-35	07/28/04	637.55	639.74	619.08	609.08	NP	0.00	20.06	17.87	619.68	Yes	
MW-35	11/16/04	637.55	639.74	619.08	609.08	NP	0.00	20.68	18.49	619.06	No	
MW-35	04/18/05	637.55	639.74	619.08	609.08	NP	0.00	21.63	19.44	618.11	No	
MW-35	10/11/05	637.55	639.74	619.08	609.08	NP	0.00	19.12	16.93	620.62	Yes	
MW-35	05/23/06	637.55	639.74	619.08	609.08	NP	0.00	17.97	15.78	621.77	Yes	
MW-35	10/16/06	637.55	639.74	619.08	609.08	NP	0.00	19.97	17.78	619.77	Yes	
MW-35	04/23/07	637.55	639.74	619.08	609.08	NP	0.00	21.26	19.07	618.48	No	
MW-35	09/25/07	637.55	639.74	619.08	609.08	NP	0.00	20.70	18.51	619.04	No	
MW-35	05/01/08	637.55	639.74	619.08	609.08	NP	0.00	18.73	16.54	621.01	Yes	
MW-35	10/20/08	637.55	639.74	619.08	609.08	NP	0.00	17.16	14.97	622.58	Yes	
MW-35	04/18/09	637.55	639.74	619.08	609.08	NP	0.00	19.34	17.15	620.40	Yes	
MW-35	10/11/09	637.55	639.74	619.08	609.08	NP	0.00	20.20	18.01	619.54	Yes	
MW-35	04/28/10	637.55	639.74	619.08	609.08	NP	0.00	20.26	18.07	619.48	Yes	
MW-35	10/25/10	637.55	639.74	619.08	609.08	NP	0.00	18.24	16.05	621.50	Yes	
MW-35	04/25/11	637.55	639.74	619.08	609.08	NP	0.00	19.61	17.42	620.13	Yes	
MW-35	10/10/11	637.55	639.74	619.08	609.08	NP	0.00	19.75	17.56	619.99	Yes	
MW-35	01/04/12	637.55	639.74	619.08	609.08	NP	0.00	21.18	18.99	618.56	No	
MW-35	04/16/12	637.55	639.74	619.08	609.08	NP	0.00	21.24	19.05	618.50	No	
MW-35	06/26/12	637.55	639.74	619.08	609.08	NP	0.00	17.50	15.31	622.24	Yes	
MW-35	09/30/12	637.55	639.74	619.08	609.08	NP	0.00	21.04	18.85	618.70	No	
MW-35	12/17/12	637.55	639.74	619.08	609.08	NP	0.00	21.53	19.34	618.21	No	
MW-35	03/25/13	637.55	639.74	619.08	609.08	NP	0.00	22.92	20.73	616.82	No	
MW-35	05/05/13	637.55	639.74	619.08	609.08	NP	0.00	21.67	19.48	618.07	No	
MW-35	10/01/13	637.55	639.74	619.08	609.08	NP	0.00	21.10	18.91	618.64	No	
MW-35	05/20/14	637.55	639.74	619.08	609.08	NP	0.00	18.50	16.31	621.24	Yes	
MW-35	10/29/14	637.55	639.74	619.08	609.08	NP	0.00	19.17	16.98	620.57	Yes	
MW-35	05/06/15	637.55	639.74	619.08	609.08	NP	0.00	21.75	19.56	617.99	No	
MW-35	10/06/15	637.55	639.74	619.08	609.08	NP	0.00	18.80	16.61	620.94	Yes	
MW-35	05/23/16	637.55	639.74	619.08	609.08	NP	0.00	16.94	14.75	622.80	Yes	
MW-35	10/03/16	637.55	639.74	619.08	609.08	NP	0.00	18.34	16.15	621.40	Yes	
MW-35	06/29/17	637.55	639.74	619.08	609.08	NP	0.00	17.96	15.77	621.78	Yes	

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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-47	10/03/16	630.30	632.46	618.30	608.30	NP	0.00	16.08	13.92	616.38	No	
MW-47	06/29/17	630.30	632.46	618.30	608.30	NP	0.00	15.90	13.74	616.56	No	
MWT-2S	10/21/03	630.07	632.65	620.70	605.70	NP	0.00	18.76	16.18	613.89	No	
MWT-2S	01/20/04	630.07	632.65	620.70	605.70	NP	0.00	19.35	16.77	613.30	No	
MWT-2S	04/19/04	630.07	632.65	620.70	605.70	NP	0.00	19.04	16.46	613.61	No	
MWT-2S	07/27/04	630.07	632.65	620.70	605.70	NP	0.00	17.71	15.13	614.94	No	
MWT-2S	11/16/04	630.07	632.65	620.70	605.70	NP	0.00	16.60	14.02	616.05	No	
MWT-2S	04/18/05	630.07	632.65	620.70	605.70	NP	0.00	16.65	14.07	616.00	No	
MWT-2S	10/11/05	630.07	632.65	620.70	605.70	NP	0.00	16.16	13.58	616.49	No	
MWT-2S	05/23/06	630.07	632.65	620.70	605.70	NP	0.00	15.07	12.49	617.58	No	
MWT-2S	10/16/06	630.07	632.65	620.70	605.70	NP	0.00	17.93	15.35	614.72	No	
MWT-2S	04/23/07	630.07	632.65	620.70	605.70	NP	0.00	18.46	15.88	614.19	No	
MWT-2S	09/25/07	630.07	632.52	620.70	605.70	NP	0.00	18.42	15.97	614.10	No	
MWT-2S	05/01/08	630.07	632.52	620.70	605.70	NP	0.00	15.80	13.35	616.72	No	
MWT-2S	10/20/08	630.07	632.52	620.70	605.70	NP	0.00	14.78	12.33	617.74	No	
MWT-2S	08/31/11	630.07	632.52	620.70	605.70	NP	0.00	14.77	12.32	617.75	No	
MWT-2S	10/10/11	630.07	632.52	620.70	605.70	NP	0.00	16.23	13.78	616.29	No	
MWT-2S	01/04/12	630.07	632.52	620.70	605.70	NP	0.00	17.75	15.30	614.77	No	
MWT-2S	04/16/12	630.07	632.52	620.70	605.70	NP	0.00	18.29	15.84	614.23	No	
MWT-2S	06/26/12	630.07	632.52	620.70	605.70	NP	0.00	13.47	11.02	619.05	No	
MWT-2S	09/30/12	630.07	632.52	620.70	605.70	NP	0.00	17.39	14.94	615.13	No	
MWT-2S	12/17/12	630.07	632.52	620.70	605.70	NP	0.00	18.29	15.84	614.23	No	
MWT-2S	03/25/13	630.07	632.52	620.70	605.70	NP	0.00	19.21	16.76	613.31	No	
MWT-2S	05/05/13	630.07	632.52	620.70	605.70	NP	0.00	18.26	15.81	614.26	No	
MWT-2S	05/20/14	630.07	632.52	620.70	605.70	NP	0.00	14.30	11.85	618.22	No	
MWT-2S	10/31/14	630.07	632.52	620.70	605.70	NP	0.00	15.89	13.44	616.63	No	
MWT-2S	05/06/15	630.07	632.52	620.70	605.70	NP	0.00	17.21	14.76	615.31	No	
MWT-2S	10/05/15	630.07	632.52	620.70	605.70	NP	0.00	15.64	13.19	616.88	No	
MWT-2S	05/23/16	630.07	632.52	620.70	605.70	NP	0.00	13.09	10.64	619.43	No	
MWT-2S	10/03/16	630.07	632.52	620.70	605.70	NP	0.00	15.30	12.85	617.22	No	
MWT-2S	06/29/17	630.07	632.52	620.70	605.70	NP	0.00	14.16	11.71	618.36	No	
MWT-2S	10/08/18	630.07	632.52	620.70	605.70	NP	0.00	16.08	13.63	616.44	No	
MWT-2D	10/21/03	630.05	632.47	577.85	572.85	NP	0.00	19.79	17.37	612.68	Yes	
MWT-2D	01/20/04	630.05	632.47	577.85	572.85	NP	0.00	20.45	18.03	612.02	Yes	
MWT-2D	04/19/04	630.05	632.47	577.85	572.85	NP	0.00	19.94	17.52	612.53	Yes	
MWT-2D	07/27/04	630.05	632.47	577.85	572.85	NP	0.00	18.99	16.57	613.48	Yes	
MWT-2D	11/16/04	630.05	632.47	577.85	572.85	NP	0.00	18.14	15.72	614.33	Yes	

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MWT-2D	04/18/05	630.05	632.47	577.85	572.85	NP	0.00	18.46	16.04	614.01	Yes	
MWT-2D	10/11/05	630.05	632.47	577.85	572.85	NP	0.00	17.79	15.37	614.68	Yes	
MWT-2D	05/23/06	630.05	632.47	577.85	572.85	NP	0.00	17.18	14.76	615.29	Yes	
MWT-2D	10/16/06	630.05	632.47	577.85	572.85	NP	0.00	18.96	16.54	613.51	Yes	
MWT-2D	04/23/07	630.05	632.47	577.85	572.85	NP	0.00	19.37	16.95	613.10	Yes	
MWT-2D	05/01/08	630.05	632.47	577.85	572.85	NP	0.00	17.60	15.18	614.87	Yes	
MWT-2D	10/20/08	630.05	632.47	577.85	572.85	NP	0.00	16.59	14.17	615.88	Yes	
MWT-2D	08/31/11	630.05	632.47	577.85	572.85	NP	0.00	16.47	14.05	616.00	Yes	
MWT-2D	10/10/11	630.05	632.47	577.85	572.85	NP	0.00	17.69	15.27	614.78	Yes	
MWT-2D	01/04/12	630.05	632.47	577.85	572.85	NP	0.00	18.99	16.57	613.48	Yes	
MWT-2D	04/16/12	630.05	632.47	577.85	572.85	NP	0.00	19.23	16.81	613.24	Yes	
MWT-2D	06/26/12	630.05	632.47	577.85	572.85	NP	0.00	16.02	13.60	616.45	Yes	
MWT-2D	09/30/12	630.05	632.47	577.85	572.85	NP	0.00	18.76	16.34	613.71	Yes	
MWT-2D	12/17/12	630.05	632.47	577.85	572.85	NP	0.00	19.37	16.95	613.10	Yes	
MWT-2D	03/25/13	630.05	632.47	577.85	572.85	NP	0.00	20.27	17.85	612.20	Yes	
MWT-2D	10/03/13	630.05	632.47	577.85	572.85	NP	0.00	18.93	16.51	613.54	Yes	
MWT-2D	05/21/14	630.05	632.47	577.85	572.85	NP	0.00	16.53	14.11	615.94	Yes	
MWT-2D	10/30/14	630.05	632.47	577.85	572.85	NP	0.00	17.08	14.66	615.39	Yes	
MWT-2D	05/05/15	630.05	632.47	577.85	572.85	NP	0.00	18.63	16.21	613.84	Yes	
MWT-2D	10/07/15	630.05	630.05	577.85	572.85	NP	0.00	17.02	17.02	613.03	Yes	
MWT-2D	05/23/16	630.05	632.47	577.85	572.85	NP	0.00	15.38	12.96	617.09	Yes	
MWT-2D	10/03/16	630.05	632.47	577.85	572.85	NP	0.00	16.52	14.10	615.95	Yes	
MWT-2D	06/14/17	630.05	632.47	577.85	572.85	NP	0.00	15.47	13.05	617.00	Yes	
MWT-2D	10/03/17	630.05	632.47	577.85	572.85	NP	0.00	14.43	12.01	618.04	Yes	
MWT-2D	06/18/18	630.05	632.47	577.85	572.85	NP	0.00	16.22	13.80	616.25	Yes	
MWT-2D	06/27/18	630.05	632.47	577.85	572.85	NP	0.00	16.12	13.70	616.35	Yes	
MWT-2D	10/08/18	630.05	632.47	577.85	572.85	NP	0.00	17.06	14.64	615.41	Yes	
MWT-6	10/23/03	635.01	637.51	623.01	613.01	21.98	0.59	22.57	19.61	615.40	No	
MWT-6	04/19/04	635.01	637.51	623.01	613.01	22.03	1.93	23.96	19.97	615.04	No	
MWT-6	11/15/04	635.01	637.51	623.01	613.01	20.34	1.71	22.05	18.23	616.78	No	
MWT-6	04/18/05	635.01	637.51	623.01	613.01	20.35	3.59	23.94	18.66	616.35	No	
MWT-6	10/11/05	635.01	637.51	623.01	613.01	NP	0.00	20.20	17.70	617.31	No	
MWT-6	05/23/06	635.01	637.51	623.01	613.01	NP	0.00	19.50	17.00	618.01	No	Sheen
MWT-6	10/16/06	635.01	637.51	623.01	613.01	20.56	0.12	20.68	18.09	616.92	No	Sheen
MWT-6	04/23/07	635.01	637.51	623.01	613.01	21.61	0.21	21.82	19.16	615.85	No	
MWT-6	09/25/07	635.01	637.40	623.01	613.01	21.56	3.45	25.01	19.95	615.06	No	
MWT-6	05/01/08	635.01	637.40	623.01	613.01	21.33	1.11	22.44	19.19	615.82	No	
MWT-6	10/20/08	635.01	637.40	623.01	613.01	NP	0.00	19.99	17.60	617.41	No	WT rise
MWT-6	04/18/09	635.01	637.40	623.01	613.01	NP	0.00	20.67	18.28	616.73	No	

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MWT-6	08/04/09	635.01	637.40	623.01	613.01	NP	0.00	21.05	18.66	616.35	No	
MWT-6	08/05/09	635.01	637.40	623.01	613.01	NP	0.00	21.05	18.66	616.35	No	
MWT-6	08/13/09	635.01	637.40	623.01	613.01	NP	0.00	21.03	18.64	616.37	No	
MWT-6	08/18/09	635.01	637.40	623.01	613.01	NP	0.00	21.05	18.66	616.35	No	
MWT-6	08/26/09	635.01	637.40	623.01	613.01	NP	0.00	20.95	18.56	616.45	No	
MWT-6	09/03/09	635.01	637.40	623.01	613.01	NP	0.00	20.75	18.36	616.65	No	
MWT-6	09/08/09	635.01	637.40	623.01	613.01	NP	0.00	20.69	18.30	616.71	No	
MWT-6	09/14/09	635.01	637.40	623.01	613.01	NP	0.00	20.64	18.25	616.76	No	
MWT-6	10/11/09	635.01	637.40	623.01	613.01	NP	0.00	21.09	18.70	616.31	No	
MWT-6	10/15/09	635.01	637.40	623.01	613.01	NP	0.00	21.09	18.70	616.31	No	
MWT-6	04/28/10	635.01	637.40	623.01	613.01	NP	0.00	21.35	18.96	616.05	No	
MWT-6	10/25/10	635.01	637.40	623.01	613.01	NP	0.00	19.28	16.89	618.12	No	
MWT-6	04/25/11	635.01	637.40	623.01	613.01	NP	0.00	20.41	18.02	616.99	No	
MWT-6	09/14/11	635.01	637.40	623.01	613.01	NP	0.00	19.43	17.04	617.97	No	
MWT-6	09/23/11	635.01	637.40	623.01	613.01	NP	0.00	19.52	17.13	617.88	No	
MWT-6	09/29/11	635.01	637.40	623.01	613.01	NP	0.00	19.41	17.02	617.99	No	
MWT-6	10/10/11	635.01	637.40	623.01	613.01	NP	0.00	19.62	17.23	617.78	No	
MWT-6	10/21/11	635.01	637.40	623.01	613.01	NP	0.00	19.97	17.58	617.43	No	
MWT-6	10/21/11	635.01	637.40	623.01	613.01	NP	0.00	20.08	17.69	617.32	No	
MWT-6	11/03/11	635.01	637.40	623.01	613.01	NP	0.00	20.23	17.84	617.17	No	
MWT-6	11/09/11	635.01	637.40	623.01	613.01	NP	0.00	20.22	17.83	617.18	No	
MWT-6	11/13/11	635.01	637.40	623.01	613.01	NP	0.00	20.31	17.92	617.09	No	
MWT-6	11/22/11	635.01	637.40	623.01	613.01	NP	0.00	20.42	18.03	616.98	No	
MWT-6	12/01/11	635.01	637.40	623.01	613.01	NP	0.00	20.68	18.29	616.72	No	
MWT-6	01/04/12	635.01	637.40	623.01	613.01	NP	0.00	20.98	18.59	616.42	No	
MWT-6	02/16/12	635.01	637.40	623.01	613.01	NP	0.00	21.56	19.17	615.84	No	
MWT-6	03/13/12	635.01	637.40	623.01	613.01	21.92	0.06	21.98	19.54	615.47	No	
MWT-6	04/16/12	635.01	637.40	623.01	613.01	NP	0.00	21.85	19.46	615.55	No	
MWT-6	06/26/12	635.01	637.40	623.01	613.01	NP	0.00	19.99	17.60	617.41	No	
MWT-6	07/24/12	635.01	637.40	623.01	613.01	NP	0.00	20.17	17.78	617.23	No	
MWT-6	08/19/12	635.01	637.40	623.01	613.01	NP	0.00	20.41	18.02	616.99	No	
MWT-6	09/17/12	635.01	637.40	623.01	613.01	NP	0.00	20.77	18.38	616.63	No	
MWT-6	09/30/12	635.01	637.40	623.01	613.01	NP	0.00	20.92	18.53	616.48	No	
MWT-6	11/21/12	635.01	637.40	623.01	613.01	NP	0.00	21.54	19.15	615.86	No	
MWT-6	12/17/12	635.01	637.40	623.01	613.01	NP	0.00	21.79	19.40	615.61	No	
MWT-6	03/25/13	635.01	637.40	623.01	613.01	22.71	0.09	22.80	20.34	614.67	No	
MWT-6	05/05/13	635.01	637.40	623.01	613.01	NP	0.00	22.51	20.12	614.89	No	
MWT-6	10/01/13	635.01	637.40	623.01	613.01	NP	0.00	21.75	19.36	615.65	No	
MWT-6	05/21/14	635.01	637.40	623.01	613.01	NP	0.00	20.78	18.39	616.62	No	
MWT-6	10/30/14	635.01	637.40	623.01	613.01	NP	0.00	19.35	16.96	618.05	No	

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MWT-6	05/06/15	635.01	637.40	623.01	613.01	NP	0.00	21.37	18.98	616.03	No	
MWT-6	10/06/15	635.01	637.40	623.01	613.01	NP	0.00	19.82	17.43	617.58	No	
MWT-6	05/23/16	635.01	637.40	623.01	613.01	NP	0.00	17.19	14.80	620.21	No	
MWT-6	10/03/16	635.01	637.40	623.01	613.01	18.63	0.10	18.73	16.26	618.75	No	
MWT-6	06/14/17	635.01	637.40	623.01	613.01	NP	0.00	16.22	13.83	621.18	No	
MWT-6	06/21/17	635.01	637.40	623.01	613.01	NP	0.00	17.76	15.37	619.64	No	
MWT-6	06/22/17	635.01	637.40	623.01	613.01	NP	0.00	17.57	15.18	619.83	No	
MWT-6	06/23/17	635.01	637.40	623.01	613.01	NP	0.00	17.65	15.26	619.75	No	
MWT-6	05/23/18	635.01	637.40	623.01	613.01	20.30	0.13	20.43	17.94	617.07	No	
RW-01	08/28/89	634.80	637.68	618.80	593.80	19.12	0.00	19.12	16.24	618.56	No	
RW-01	11/28/89	634.80	637.68	618.80	593.80	20.62	3.66	24.28	18.57	616.23	No	
RW-01	12/01/89	634.80	637.68	618.80	593.80	20.84	3.32	24.16	18.71	616.09	No	
RW-01	12/02/89	634.80	637.68	618.80	593.80	21.11	2.14	23.25	18.71	616.09	No	
RW-01	05/04/90	634.80	637.68	618.80	593.80	20.35	8.40	28.75	19.37	615.43	No	
RW-01	06/19/90	634.80	637.68	618.80	593.80	20.03	7.05	27.08	18.74	616.06	No	
RW-01	06/27/90	634.80	637.68	618.80	593.80	20.15	6.97	27.12	18.84	615.96	No	
RW-01	07/05/90	634.80	637.68	618.80	593.80	20.26	7.28	27.54	19.02	615.78	No	
RW-01	07/13/90	634.80	637.68	618.80	593.80	20.10	7.88	27.98	19.00	615.80	No	
RW-01	07/17/90	634.80	637.68	618.80	593.80	19.94	8.19	28.13	18.91	615.89	No	
RW-01	07/25/90	634.80	637.68	618.80	593.80	20.10	8.39	28.49	19.12	615.68	No	
RW-01	08/09/90	634.80	637.68	618.80	593.80	20.02	7.08	27.10	18.74	616.06	No	
RW-01	09/06/90	634.80	637.68	618.80	593.80	19.90	6.28	26.18	18.44	616.36	No	
RW-01	01/04/91	634.80	637.68	618.80	593.80	19.31	8.65	27.96	18.38	616.42	No	
RW-01	01/30/91	634.80	637.68	618.80	593.80	21.69	9.57	31.26	20.97	613.83	No	
RW-01	04/24/91	634.80	637.68	618.80	593.80	22.20	6.06	28.26	20.69	614.11	No	
RW-01	06/06/91	634.80	637.68	618.80	593.80	23.30	1.20	24.50	20.69	614.11	No	
RW-01	07/09/91	634.80	637.68	618.80	593.80	20.45	2.63	23.08	18.16	616.64	No	
RW-01	08/06/91	634.80	637.68	618.80	593.80	19.63	2.54	22.17	17.32	617.48	No	
RW-01	09/04/91	634.80	637.68	618.80	593.80	19.87	1.76	21.63	17.39	617.41	No	
RW-01	10/08/91	634.80	637.68	618.80	593.80	18.75	3.60	22.35	16.68	618.12	No	
RW-01	11/08/91	634.80	637.68	618.80	593.80	19.64	1.95	21.59	17.20	617.60	No	
RW-01	12/03/91	634.80	637.68	618.80	593.80	17.55	3.05	20.60	15.36	619.44	Yes	
RW-01	01/07/92	634.80	637.68	618.80	593.80	19.42	1.84	21.26	16.96	617.84	No	
RW-01	02/04/92	634.80	637.68	618.80	593.80	20.45	1.20	21.65	17.84	616.96	No	
RW-01	03/03/92	634.80	637.68	618.80	593.80	20.92	1.20	22.12	18.31	616.49	No	
RW-01	09/24/92	634.80	637.68	618.80	593.80	18.43	2.38	20.81	16.09	618.71	No	
RW-01	10/14/92	634.80	637.68	618.80	593.80	19.52	2.39	21.91	17.18	617.62	No	
RW-01	06/25/93	634.80	637.68	618.80	593.80	16.35	1.66	18.01	13.84	620.96	Yes	
RW-01	07/21/93	634.80	637.68	618.80	593.80	16.84	1.09	17.93	14.21	620.59	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-01	08/17/93	634.80	637.68	618.80	593.80	18.42	3.67	22.09	16.37	618.43	No	
RW-01	09/09/93	634.80	637.68	618.80	593.80	18.96	3.18	22.14	16.80	618.00	No	
RW-01	10/28/93	634.80	637.68	618.80	593.80	19.72	2.02	21.74	17.30	617.50	No	
RW-01	11/24/93	634.80	637.68	618.80	593.80	20.53	1.39	21.92	17.96	616.84	No	
RW-01	12/17/93	634.80	637.68	618.80	593.80	20.40	1.50	21.90	17.86	616.94	No	
RW-01	01/29/94	634.80	637.68	618.80	593.80	20.91	1.14	22.05	18.29	616.51	No	
RW-01	02/25/94	634.80	637.68	618.80	593.80	20.84	3.59	24.43	18.77	616.03	No	
RW-01	03/24/94	634.80	637.68	618.80	593.80	21.36	1.04	22.40	18.71	616.09	No	
RW-01	04/27/94	634.80	637.68	618.80	593.80	20.34	2.35	22.69	17.99	616.81	No	
RW-01	05/26/94	634.80	637.68	618.80	593.80	19.39	2.05	21.44	16.97	617.83	No	
RW-01	06/29/94	634.80	637.68	618.80	593.80	18.85	2.10	20.95	16.44	618.36	No	
RW-01	07/27/94	634.80	637.68	618.80	593.80	18.96	2.56	21.52	16.66	618.14	No	
RW-01	08/30/94	634.80	637.68	618.80	593.80	20.32	2.39	22.71	17.98	616.82	No	
RW-01	10/25/94	634.80	637.68	618.80	593.80	19.58	2.55	22.13	17.28	617.52	No	
RW-01	11/02/94	634.80	637.68	618.80	593.80	19.40	0.00	19.40	16.52	618.28	No	
RW-01	04/04/95	634.80	637.68	618.80	593.80	21.60	2.30	23.90	19.24	615.56	No	
RW-01	07/12/95	634.80	637.68	618.80	593.80	20.76	0.22	20.98	17.93	616.87	No	
RW-01	11/14/95	634.80	637.68	618.80	593.80	18.89	2.66	21.55	16.61	618.19	No	
RW-01	03/13/96	634.80	637.68	618.80	593.80	20.70	6.40	27.10	19.27	615.53	No	
RW-01	05/28/96	634.80	637.68	618.80	593.80	18.96	0.06	19.02	16.09	618.71	No	
RW-01	10/08/96	634.80	637.68	618.80	593.80	18.26	0.14	18.40	15.41	619.39	Yes	
RW-01	04/29/97	634.80	637.68	618.80	593.80	16.65	2.55	19.20	14.35	620.45	Yes	
RW-01	06/10/97	634.80	637.68	618.80	593.80	18.62	0.03	18.65	15.75	619.05	Yes	FP bailed 5/22/97
RW-01	11/03/98	634.80	637.68	618.80	593.80	20.81	7.93	28.74	19.72	615.08	No	
RW-01	10/07/99	634.80	637.68	618.80	593.80	17.80	2.92	20.72	15.58	619.22	Yes	
RW-01	11/09/99	634.80	637.68	618.80	593.80	17.72	1.60	19.32	15.20	619.60	Yes	Frerret pump installed
RW-01	12/21/99	634.80	637.68	618.80	593.80	19.65	1.85	21.50	17.19	617.61	No	bailed 20 gal. FP
RW-01	01/27/00	634.80	637.68	618.80	593.80	20.28	2.37	22.65	17.94	616.86	No	Ferret pump operating
RW-01	02/24/00	634.80	637.68	618.80	593.80	20.53	1.05	21.58	17.89	616.91	No	bailed 2 gal. FP
RW-01	03/31/00	634.80	637.68	618.80	593.80	20.71	2.39	23.10	18.37	616.43	No	bailed 3 gal. FP/ instl. pump
RW-01	04/20/00	634.80	637.68	618.80	593.80	20.55	1.20	21.75	17.94	616.86	No	Ferret pump operating
RW-01	04/26/00	634.80	637.68	618.80	593.80	20.40	2.00	22.40	17.97	616.83	No	bailed 5 gal. FP
RW-01	05/31/00	634.80	637.68	618.80	593.80	20.76	1.09	21.85	18.13	616.67	No	bailed 3 gal. FP -instl. Skmmr.
RW-01	06/29/00	634.80	637.68	618.80	593.80	20.37	1.67	22.04	17.87	616.93	No	bailed 4 gal. FP
RW-01	07/26/00	634.80	637.68	618.80	593.80	20.55	1.47	22.02	18.00	616.80	No	bailed 2 gal. FP
RW-01	08/18/00	634.80	637.68	618.80	593.80	20.30	0.55	20.85	17.54	617.26	No	bailed 1 gal. FP- installed skimmer
RW-01	09/27/00	634.80	637.68	618.80	593.80	20.91	3.70	24.61	18.87	615.93	No	skimmer down-bailed 25 gal.FP
RW-01	10/11/00	634.80	637.68	618.80	593.80	20.90	3.55	24.45	18.82	615.98	No	skimmer down-bailed 24 gal.FP
RW-01	11/17/00	634.80	637.68	618.80	593.80	20.74	4.26	25.00	18.82	615.98	No	skimmer down-bailed 27 gal.FP
RW-01	12/12/00	634.80	637.68	618.80	593.80	20.85	3.31	24.16	18.72	616.08	No	skimmer down-bailed 15 gal.FP

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-01	01/18/01	634.80	637.68	618.80	593.80	21.18	3.16	24.34	19.01	615.79	No	skimmer down-bailed 12 gal.FP
RW-01	04/24/01	634.80	637.68	618.80	593.80	20.81	4.12	24.93	18.86	615.94	No	product abated using vactruck
RW-01	05/23/01	634.80	637.68	618.80	593.80	20.81	0.00	20.81	17.93	616.87	No	skimmer pump operating
RW-01	06/19/01	634.80	637.68	618.80	593.80	20.04	0.20	20.24	17.21	617.59	No	
RW-01	07/26/01	634.80	637.68	618.80	593.80	20.74	0.05	20.79	17.87	616.93	No	
RW-01	08/31/01	634.80	637.68	618.80	593.80	21.11	0.27	21.38	18.29	616.51	No	
RW-01	09/26/01	634.80	637.68	618.80	593.80	21.26	0.86	22.12	18.57	616.23	No	
RW-01	10/24/01	634.80	637.68	618.80	593.80	21.02	2.88	23.90	18.79	616.01	No	
RW-01	12/20/01	634.80	637.68	618.80	593.80	21.19	4.70	25.89	19.37	615.43	No	
RW-01	01/22/02	634.80	637.68	618.80	593.80	21.34	4.73	26.07	19.53	615.27	No	
RW-01	02/26/02	634.80	637.68	618.80	593.80	21.57	7.25	28.82	20.33	614.47	No	
RW-01	03/20/02	634.80	637.68	618.80	593.80	21.84	5.76	27.60	20.26	614.54	No	
RW-01	04/24/02	634.80	637.68	618.80	593.80	21.06	5.93	26.99	19.52	615.28	No	
RW-01	05/15/02	634.80	637.68	618.80	593.80	20.88	4.61	25.49	19.04	615.76	No	
RW-01	06/27/02	634.80	637.68	618.80	593.80	21.04	2.66	23.70	18.76	616.04	No	
RW-01	07/25/02	634.80	637.68	618.80	593.80	NP	0.00	21.53	18.65	616.15	No	
RW-01	08/20/02	634.80	637.68	618.80	593.80	20.81	1.69	22.50	18.31	616.49	No	
RW-01	09/30/02	634.80	637.68	618.80	593.80	20.78	0.10	20.88	17.92	616.88	No	
RW-01	11/05/02	634.80	637.68	618.80	593.80	20.38	0.22	20.60	17.55	617.25	No	
RW-01	12/23/02	634.80	637.68	618.80	593.80	21.51	0.10	21.61	18.65	616.15	No	
RW-01	01/28/03	634.80	637.68	618.80	593.80	22.02	0.36	22.38	19.22	615.58	No	
RW-01	02/19/03	634.80	637.68	618.80	593.80	22.46	0.05	22.51	19.59	615.21	No	
RW-01	03/13/03	634.80	637.68	618.80	593.80	22.07	4.64	26.71	20.24	614.56	No	
RW-01	04/17/03	634.80	637.68	618.80	593.80	22.90	0.06	22.96	20.03	614.77	No	
RW-01	05/15/03	634.80	637.68	618.80	593.80	22.87	0.51	23.38	20.11	614.69	No	
RW-01	06/10/03	634.80	637.68	618.80	593.80	22.30	0.98	23.28	19.64	615.16	No	
RW-01	07/07/03	634.80	637.68	618.80	593.80	22.08	1.43	23.51	19.52	615.28	No	
RW-01	07/30/03	634.80	637.68	618.80	593.80	21.71	1.69	23.40	19.21	615.59	No	
RW-01	07/31/03	634.80	637.68	618.80	593.80	21.97	0.63	22.60	19.23	615.57	No	
RW-01	09/08/03	634.80	637.68	618.80	593.80	22.21	2.76	24.97	19.95	614.85	No	
RW-01	10/02/03	634.80	637.68	618.80	593.80	22.83	0.03	22.86	19.96	614.84	No	
RW-01	10/23/03	634.80	637.68	618.80	593.80	NP	0.00	22.92	20.04	614.76	No	
RW-01	12/03/03	634.80	637.68	618.80	593.80	23.04	0.14	23.18	20.19	614.61	No	
RW-01	01/20/04	634.80	637.68	618.80	593.80	23.27	0.23	23.50	20.44	614.36	No	removed skimming pump
RW-01	02/24/04	634.80	637.68	618.80	593.80	22.94	3.54	26.48	20.86	613.94	No	
RW-01	04/19/04	634.77	637.50	618.80	593.80	22.57	5.42	27.99	21.06	613.71	No	
RW-01	07/28/04	634.77	637.50	618.80	593.80	21.87	2.21	24.08	19.64	615.13	No	
RW-01	11/15/04	634.77	637.50	618.80	593.80	20.91	1.72	22.63	18.57	616.20	No	
RW-01	04/18/05	634.77	637.50	618.80	593.80	21.31	4.30	25.61	19.55	615.22	No	
RW-01	10/11/05	634.77	637.50	618.80	593.80	20.74	2.14	22.88	18.49	616.28	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

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RW-01	05/23/06	634.77	637.50	618.80	593.80	19.70	3.77	23.47	17.82	616.95	No	
RW-01	10/16/06	634.77	637.50	618.80	593.80	21.31	4.58	25.89	19.61	615.16	No	
RW-01	04/23/07	634.77	637.50	618.80	593.80	21.75	8.17	29.92	20.87	613.90	No	
RW-01	09/25/07	634.77	637.50	618.80	593.80	20.72	10.27	30.99	20.31	614.46	No	
RW-01	05/01/08	634.77	637.50	618.80	593.80	20.65	2.60	23.25	18.51	616.26	No	
RW-01	10/20/08	634.77	637.50	618.80	593.80	19.10	2.39	21.49	16.91	617.86	No	
RW-01	04/18/09	634.77	637.50	618.80	593.80	19.30	3.53	22.83	17.37	617.40	No	
RW-01	08/04/09	634.77	637.50	618.80	593.80	20.92	2.58	23.50	18.77	616.00	No	
RW-01	08/05/09	634.77	637.50	618.80	593.80	20.10	1.76	21.86	17.77	617.00	No	
RW-01	08/26/09	634.77	637.50	618.80	593.80	18.82	1.68	20.50	16.47	618.30	No	
RW-01	09/03/09	634.77	637.50	618.80	593.80	19.12	1.68	20.80	16.77	618.00	No	
RW-01	09/08/09	634.77	637.50	618.80	593.80	19.13	1.69	20.82	16.78	617.99	No	
RW-01	09/14/09	634.77	637.50	618.80	593.80	19.06	1.78	20.84	16.73	618.04	No	
RW-01	10/11/09	634.77	637.50	618.80	593.80	19.63	1.35	20.98	17.20	617.57	No	
RW-01	10/15/09	634.77	637.50	618.80	593.80	19.63	1.35	20.98	17.20	617.57	No	
RW-01	04/28/10	634.77	637.50	618.80	593.80	19.19	1.79	20.98	16.86	617.91	No	
RW-01	10/25/10	634.77	637.50	618.80	593.80	19.07	2.82	21.89	16.98	617.79	No	
RW-01	04/25/11	634.77	637.50	618.80	593.80	19.98	3.73	23.71	18.09	616.68	No	
RW-01	09/14/11	634.77	637.50	618.80	593.80	19.84	2.99	22.83	17.79	616.98	No	
RW-01	09/23/11	634.77	637.50	618.80	593.80	19.59	3.05	22.64	17.55	617.22	No	
RW-01	09/29/11	634.77	637.50	618.80	593.80	19.49	3.15	22.64	17.47	617.30	No	
RW-01	10/07/11	634.77	637.50	618.80	593.80	19.24	3.43	22.67	17.28	617.49	No	
RW-01	10/11/11	634.77	637.50	618.80	593.80	19.83	2.91	22.74	17.76	617.01	No	
RW-01	10/21/11	634.77	637.50	618.80	593.80	20.08	2.99	23.07	18.03	616.74	No	
RW-01	10/27/11	634.77	637.50	618.80	593.80	20.20	2.94	23.14	18.13	616.64	No	
RW-01	11/04/11	634.77	637.50	618.80	593.80	20.40	2.93	23.33	18.33	616.44	No	
RW-01	11/09/11	634.77	637.50	618.80	593.80	20.39	2.93	23.32	18.32	616.45	No	
RW-01	11/18/11	634.77	637.50	618.80	593.80	20.51	2.98	23.49	18.45	616.32	No	
RW-01	11/22/11	634.77	637.50	618.80	593.80	20.64	2.94	23.58	18.57	616.20	No	
RW-01	12/01/11	634.77	637.50	618.80	593.80	20.90	2.93	23.83	18.83	615.94	No	
RW-01	01/04/12	634.77	637.50	618.80	593.80	21.25	2.88	24.13	19.17	615.60	No	
RW-01	02/16/12	634.77	637.50	618.80	593.80	21.82	3.05	24.87	19.78	614.99	No	
RW-01	03/13/12	634.77	637.50	618.80	593.80	21.83	3.97	25.80	20.00	614.77	No	
RW-01	04/03/12	634.77	637.50	618.80	593.80	21.56	5.32	26.88	20.03	614.74	No	Spill Buddy Before Reading
RW-01	04/03/12	634.77	637.50	618.80	593.80	26.24	0.06	26.30	23.52	611.25	No	Spill Buddy After Reading
RW-01	04/16/12	634.77	637.50	618.80	593.80	21.74	4.12	25.86	19.94	614.83	No	
RW-01	05/10/12	634.77	637.50	618.80	593.80	20.36	5.49	25.85	18.87	615.90	No	Spill Buddy Before Reading
RW-01	05/10/12	634.77	637.50	618.80	593.80	24.73	0.06	24.79	22.01	612.76	No	Spill Buddy After Reading
RW-01	05/18/12	634.77	637.50	618.80	593.80	21.05	3.19	24.24	19.04	615.73	No	
RW-01	06/18/12	634.77	637.50	618.80	593.80	20.04	2.45	22.49	17.86	616.91	No	Spill Buddy Before Reading

Table 3
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Former Amoco Terminal
Superior, Wisconsin

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RW-01	06/18/12	634.77	637.50	618.80	593.80	22.02	0.08	22.10	19.31	615.46	No	Spill Buddy After Reading
RW-01	06/26/12	634.77	637.50	618.80	593.80	19.62	0.13	19.75	16.92	617.85	No	
RW-01	07/12/12	634.77	637.50	618.80	593.80	20.05	0.11	20.16	17.34	617.43	No	
RW-01	07/24/12	634.77	637.50	618.80	593.80	20.46	0.17	20.63	17.77	617.00	No	
RW-01	08/17/12	634.77	637.50	618.80	593.80	20.80	0.16	20.96	18.11	616.66	No	
RW-01	09/17/12	634.77	637.50	618.80	593.80	21.33	0.19	21.52	18.64	616.13	No	
RW-01	09/30/12	634.77	637.50	618.80	593.80	21.58	0.18	21.76	18.89	615.88	No	
RW-01	11/21/12	634.77	637.50	618.80	593.80	21.67	2.43	24.10	19.49	615.28	No	
RW-01	12/17/12	634.77	637.50	618.80	593.80	21.59	4.38	25.97	19.85	614.92	No	
RW-01	03/25/13	634.77	637.50	618.80	593.80	21.29	10.99	32.28	21.04	613.73	No	
RW-01	04/02/13	634.77	637.50	618.80	593.80	21.84	10.50	32.34	21.48	613.29	No	Spill Buddy Before Reading
RW-01	04/02/13	634.77	637.50	618.80	593.80	30.12	1.66	31.78	27.76	607.01	No	Spill Buddy After Reading
RW-01	04/03/13	634.77	637.50	618.80	593.80	22.29	3.98	26.27	20.46	614.31	No	Spill Buddy Before Reading
RW-01	04/03/13	634.77	637.50	618.80	593.80	25.24	0.82	26.06	22.70	612.07	No	Spill Buddy After Reading
RW-01	04/29/13	634.77	637.50	618.80	593.80	21.54	5.49	27.03	20.05	614.72	No	Spill Buddy Before Reading
RW-01	04/29/13	634.77	637.50	618.80	593.80	24.90	1.94	26.84	22.61	612.16	No	Spill Buddy After Reading
RW-01	05/05/13	634.77	637.50	618.80	593.80	21.92	4.76	26.68	20.27	614.50	No	
RW-01	10/03/13	634.77	637.50	618.80	593.80	21.44	4.07	25.51	19.63	615.14	No	
RW-01	05/22/14	634.77	637.50	618.80	593.80	20.08	2.04	22.12	17.81	616.96	No	
RW-01	10/31/14	634.77	637.50	618.80	593.80	19.80	2.46	22.26	17.63	617.14	No	
RW-01	05/06/15	634.77	637.50	618.80	593.80	21.33	3.85	25.18	19.47	615.30	No	
RW-01	07/10/15	634.77	637.50	618.80	593.80	20.21	3.59	23.80	18.29	616.48	No	
RW-01	10/05/15	634.77	637.50	618.80	593.80	20.14	0.15	20.29	17.44	617.33	No	
RW-01	05/23/16	634.77	637.50	618.80	593.80	16.90	4.28	21.18	15.14	619.63	Yes	
RW-01	10/03/16	634.77	637.50	618.80	593.80	18.29	4.90	23.19	16.67	618.10	No	
RW-01	06/14/17	634.77	637.50	618.80	593.80	16.89	4.85	21.74	15.26	619.51	Yes	
RW-01	06/21/17	634.77	637.50	618.80	593.80	17.43	5.00	22.43	15.83	618.94	Yes	
RW-01	06/22/17	634.77	637.50	618.80	593.80	17.62	2.73	20.35	15.51	619.26	Yes	
RW-01	06/23/17	634.77	637.50	618.80	593.80	17.67	2.58	20.25	15.52	619.25	Yes	
RW-01	06/29/17	634.77	637.50	618.80	593.80	18.05	2.88	20.93	15.97	618.80	No	
RW-01	10/26/17	634.77	637.50	618.80	593.80	14.70	7.65	22.35	13.70	621.07	Yes	
RW-01	05/15/18	634.77	637.50	618.80	593.80	20.26	3.47	23.73	18.31	616.46	No	
RW-01	05/23/18	634.77	637.50	618.80	593.80	20.50	2.10	22.60	18.24	616.53	No	
RW-02	05/04/90	635.60	638.06	614.00	589.00	21.70	8.75	30.45	21.22	614.53	Yes	
RW-02	06/01/90	635.60	638.06	614.00	589.00	20.90	10.30	31.20	20.77	615.00	Yes	
RW-02	06/19/90	635.60	638.06	614.00	589.00	20.73	10.58	31.31	20.66	615.11	Yes	
RW-02	06/27/90	635.60	638.06	614.00	589.00	20.88	10.35	31.23	20.76	615.01	Yes	
RW-02	07/05/90	635.60	638.06	614.00	589.00	21.07	10.42	31.49	20.96	614.80	Yes	
RW-02	07/13/90	635.60	638.06	614.00	589.00	21.05	10.55	31.60	20.97	614.80	Yes	

Table 3
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Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-02	07/17/90	635.60	638.06	614.00	589.00	20.78	10.96	31.74	20.80	614.98	Yes	
RW-02	07/25/90	635.60	638.06	614.00	589.00	21.04	10.84	31.88	21.03	614.75	Yes	
RW-02	08/09/90	635.60	638.06	614.00	589.00	20.87	11.14	32.01	20.93	614.85	Yes	
RW-02	09/06/90	635.60	638.06	614.00	589.00	20.50	10.99	31.49	20.52	615.26	Yes	
RW-02	01/04/91	635.60	638.06	614.00	589.00	20.25	10.88	31.13	20.25	615.53	Yes	
RW-02	01/30/91	635.60	638.06	614.00	589.00	20.58	11.50	32.08	20.72	615.07	Yes	
RW-02	04/24/91	635.60	638.06	614.00	589.00	20.58	9.11	29.69	20.18	615.57	Yes	
RW-02	06/06/91	635.60	638.06	614.00	589.00	22.00	2.16	24.16	20.03	615.61	Yes	
RW-02	07/09/91	635.60	638.06	614.00	589.00	18.30	5.48	23.78	17.08	618.61	Yes	
RW-02	08/06/91	635.60	638.06	614.00	589.00	18.11	2.18	20.29	16.14	619.49	Yes	
RW-02	09/04/91	635.60	638.06	614.00	589.00	18.27	2.21	20.48	16.31	619.33	Yes	
RW-02	10/08/91	635.60	638.06	614.00	589.00	17.40	2.22	19.62	15.44	620.19	Yes	
RW-02	11/08/91	635.60	638.06	614.00	589.00	18.07	1.92	19.99	16.04	619.59	Yes	
RW-02	12/03/91	635.60	638.06	614.00	589.00	16.27	1.90	18.17	14.24	621.39	Yes	
RW-02	01/07/92	635.60	638.06	614.00	589.00	18.25	1.88	20.13	16.21	619.42	Yes	
RW-02	02/04/92	635.60	638.06	614.00	589.00	19.15	1.87	21.02	17.11	618.52	Yes	
RW-02	03/03/92	635.60	638.06	614.00	589.00	19.65	2.02	21.67	17.65	617.99	Yes	
RW-02	09/24/92	635.60	638.06	614.00	589.00	17.30	2.04	19.34	15.30	620.33	Yes	
RW-02	06/25/93	635.60	638.06	614.00	589.00	15.65	1.07	16.72	13.43	622.19	Yes	
RW-02	07/21/93	635.60	638.06	614.00	589.00	16.23	1.08	17.31	14.01	621.60	Yes	
RW-02	08/17/93	635.60	638.06	614.00	589.00	17.77	1.09	18.86	15.56	620.06	Yes	
RW-02	09/09/93	635.60	638.06	614.00	589.00	17.75	0.24	17.99	15.34	620.26	Yes	
RW-02	10/28/93	635.60	638.06	614.00	589.00	17.75	2.00	19.75	15.74	619.89	Yes	
RW-02	11/24/93	635.60	638.06	614.00	589.00	19.71	0.29	20.00	17.32	618.29	Yes	
RW-02	12/17/93	635.60	638.06	614.00	589.00	19.51	0.29	19.80	17.12	618.49	Yes	
RW-02	01/29/94	635.60	638.06	614.00	589.00	20.28	0.16	20.44	17.86	617.75	Yes	
RW-02	02/25/94	635.60	638.06	614.00	589.00	20.64	0.47	21.11	18.29	617.32	Yes	
RW-02	03/24/94	635.60	638.06	614.00	589.00	20.51	0.55	21.06	18.17	617.43	Yes	
RW-02	04/27/94	635.60	638.06	614.00	589.00	19.60	0.82	20.42	17.33	618.29	Yes	
RW-02	05/26/94	635.60	638.06	614.00	589.00	18.51	0.56	19.07	16.18	619.43	Yes	
RW-02	06/29/94	635.60	638.06	614.00	589.00	17.15	0.89	18.04	14.89	620.72	Yes	
RW-02	07/27/94	635.60	638.06	614.00	589.00	18.78	0.89	19.67	16.52	619.09	Yes	
RW-02	08/30/94	635.60	638.06	614.00	589.00	19.09	0.58	19.67	16.76	618.85	Yes	
RW-02	10/25/94	635.60	638.06	614.00	589.00	18.68	0.10	18.78	16.24	619.36	Yes	
RW-02	04/04/95	635.60	638.06	614.00	589.00	20.65	4.80	25.45	19.27	616.40	Yes	
RW-02	07/12/95	635.60	638.06	614.00	589.00	18.70	1.50	20.20	16.58	619.05	Yes	
RW-02	10/07/99	635.60	638.06	614.00	589.00	16.85	3.60	20.45	15.20	620.46	Yes	
RW-02	11/09/99	635.60	638.06	614.00	589.00	17.11	2.84	19.95	15.29	620.35	Yes	bailed 3 gal. FP
RW-02	12/21/99	635.60	638.06	614.00	589.00	18.95	0.07	19.02	16.51	619.10	Yes	bailed 0.25 gal. FP
RW-02	01/27/00	635.60	638.06	614.00	589.00	20.02	0.93	20.95	17.77	617.84	Yes	bailed 0.3 gal. FP

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RW-02	02/24/00	635.60	638.06	614.00	589.00	20.53	1.05	21.58	18.31	617.31	Yes	bailed 1.5 gal. FP
RW-02	03/31/00	635.60	638.06	614.00	589.00	20.37	0.97	21.34	18.13	617.49	Yes	
RW-02	04/20/00	635.60	638.06	614.00	589.00	19.89	0.87	20.76	17.63	617.99	Yes	bailed 11 gal. FP
RW-02	04/26/00	635.60	638.06	614.00	589.00	18.54	8.98	27.52	18.11	617.64	Yes	bailed 1 gal. FP
RW-02	05/31/00	635.60	638.06	614.00	589.00	20.03	0.56	20.59	17.70	617.91	Yes	bailed 1 gal. FP
RW-02	06/29/00	635.60	638.06	614.00	589.00	19.65	0.65	20.30	17.34	618.27	Yes	bailed 1 gal. FP
RW-02	07/26/00	635.60	638.06	614.00	589.00	20.00	0.42	20.42	17.63	617.97	Yes	bailed 1 gal. FP
RW-02	08/18/00	635.60	638.06	614.00	589.00	19.87	0.09	19.96	17.43	618.17	Yes	bailed 0.125 gal. FP
RW-02	09/27/00	635.60	638.06	614.00	589.00	20.81	0.75	21.56	18.52	617.09	Yes	bailed 1.5 gal. FP
RW-02	10/11/00	635.60	638.06	614.00	589.00	20.86	0.44	21.30	18.50	617.11	Yes	bailed 1.75 gal. FP
RW-02	11/17/00	635.60	638.06	614.00	589.00	19.61	1.01	20.62	17.38	618.24	Yes	bailed 1.5 gal. FP
RW-02	12/12/00	635.60	638.06	614.00	589.00	20.40	0.02	20.42	17.94	617.66	Yes	bailed 0.1 gal. FP
RW-02	01/18/01	635.60	638.06	614.00	589.00	20.87	0.03	20.90	18.42	617.18	Yes	no product bailed
RW-02	04/24/01	635.60	638.06	614.00	589.00	19.74	6.62	26.36	18.78	616.93	Yes	product abated using vactruck
RW-02	05/23/01	635.60	638.06	614.00	589.00	18.32	6.23	24.55	17.27	618.43	Yes	no product bailed
RW-02	06/19/01	635.60	638.06	614.00	589.00	18.28	6.00	24.28	17.18	618.52	Yes	
RW-02	07/26/01	635.60	638.06	614.00	589.00	19.46	5.63	25.09	18.27	617.42	Yes	
RW-02	08/31/01	635.60	638.06	614.00	589.00	19.67	5.73	25.40	18.50	617.19	Yes	
RW-02	09/26/01	635.60	638.06	614.00	589.00	19.85	5.87	25.72	18.72	616.98	Yes	
RW-02	10/24/01	635.60	638.06	614.00	589.00	19.80	4.10	23.90	18.27	617.40	Yes	
RW-02	12/20/01	635.60	638.06	614.00	589.00	19.96	6.25	26.21	18.91	616.79	Yes	
RW-02	01/22/02	635.60	638.06	614.00	589.00	20.37	6.39	26.76	19.35	616.35	Yes	
RW-02	02/26/02	635.60	638.06	614.00	589.00	20.89	6.86	27.75	19.98	615.73	Yes	
RW-02	03/20/02	635.60	638.06	614.00	589.00	21.08	7.31	28.39	20.27	615.45	Yes	
RW-02	04/24/02	635.60	638.06	614.00	589.00	19.73	8.79	28.52	19.26	616.49	Yes	
RW-02	05/15/02	635.60	638.06	614.00	589.00	19.14	8.88	28.02	18.69	617.06	Yes	
RW-02	06/27/02	635.60	638.06	614.00	589.00	19.37	8.50	27.87	18.83	616.91	Yes	
RW-02	07/25/02	635.60	638.06	614.00	589.00	19.39	8.37	27.76	18.82	616.91	Yes	
RW-02	08/20/02	635.60	638.06	614.00	589.00	19.08	8.42	27.50	18.52	617.21	Yes	
RW-02	09/30/02	635.60	638.06	614.00	589.00	18.23	8.58	26.81	17.71	618.03	Yes	
RW-02	12/23/02	635.60	638.06	614.00	589.00	19.81	7.33	27.14	19.01	616.71	Yes	
RW-02	01/28/03	635.60	638.06	614.00	589.00	20.62	7.47	28.09	19.85	615.87	Yes	
RW-02	02/19/03	635.60	638.06	614.00	589.00	20.97	7.84	28.81	20.28	615.45	Yes	
RW-02	04/17/03	635.60	638.06	614.00	589.00	21.40	8.73	30.13	20.91	614.83	Yes	
RW-02	05/15/03	635.60	638.06	614.00	589.00	21.32	8.94	30.26	20.88	614.87	Yes	
RW-02	06/10/03	635.60	638.06	614.00	589.00	20.72	9.37	30.09	20.38	615.38	Yes	
RW-02	07/31/03	635.60	638.06	614.00	589.00	20.04	9.89	29.93	19.81	615.95	Yes	
RW-02	09/08/03	635.60	638.06	614.00	589.00	24.31	5.99	30.30	23.20	612.49	No	
RW-02	09/11/03	635.60	638.06	614.00	589.00	21.66	1.63	23.29	19.57	616.06	Yes	
RW-02	10/02/03	635.60	638.06	614.00	589.00	21.48	3.56	25.04	19.82	615.83	Yes	

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RW-02	10/23/03	635.60	638.06	614.00	589.00	21.50	4.56	26.06	20.07	615.60	Yes	
RW-02	12/03/03	635.60	638.06	614.00	589.00	21.52	5.93	27.45	20.40	615.30	Yes	
RW-02	01/20/04	635.60	638.06	614.00	589.00	21.90	7.29	29.19	21.09	614.63	Yes	started skimming pump
RW-02	02/24/04	635.60	638.06	614.00	589.00	23.43	0.18	23.61	21.01	614.59	Yes	
RW-02	03/22/04	635.60	638.06	614.00	589.00	22.65	4.18	26.83	21.13	614.53	Yes	pump inoperative
RW-02	07/28/04	635.92	638.13	614.00	589.00	21.32	0.67	21.99	19.26	616.67	Yes	pump inoperative
RW-02	11/15/04	635.92	638.13	614.00	589.00	17.04	0.42	17.46	14.92	621.00	Yes	
RW-02	04/18/05	635.92	638.13	614.00	589.00	NP	0.00	19.34	17.13	618.79	Yes	
RW-02	10/11/05	635.92	638.13	614.00	589.00	NP	0.00	23.22	21.01	614.91	Yes	21.92
RW-02	05/23/06	635.92	638.13	614.00	589.00	NP	0.00	16.33	14.12	621.80	Yes	
RW-02	10/16/06	635.92	638.13	614.00	589.00	NP	0.00	22.64	20.43	615.49	Yes	
RW-02	09/14/11	635.60	635.38	613.68	588.68	NP	0.00	15.25	15.47	620.13	Yes	
												TFRT System Down on 8/31/11 for well recovery test
RW-02	09/23/11	635.60	635.38	613.68	588.68	NP	0.00	15.33	15.55	620.05	Yes	
RW-02	09/29/11	635.60	635.38	613.68	588.68	NP	0.00	15.87	16.09	619.51	Yes	
RW-02	10/07/11	635.60	635.38	613.68	588.68	NP	0.00	15.85	16.07	619.53	Yes	
RW-02	10/13/11	635.60	635.38	613.68	588.68	NP	0.00	15.76	15.98	619.62	Yes	
RW-02	10/21/11	635.60	635.38	613.68	588.68	NP	0.00	15.64	15.86	619.74	Yes	
RW-02	10/27/11	635.60	635.38	613.68	588.68	NP	0.00	16.06	16.28	619.32	Yes	
RW-02	11/01/11	635.60	635.38	613.68	588.68	NP	0.00	15.95	16.17	619.43	Yes	Conducted 2011 annual well pump maintenace
RW-02	11/09/11	635.60	635.38	613.68	588.68	NP	0.00	16.20	16.42	619.18	Yes	
RW-02	11/18/11	635.60	635.38	613.68	588.68	NP	0.00	16.49	16.71	618.89	Yes	
RW-02	11/30/11	635.60	635.38	613.68	588.68	NP	0.00	16.83	17.05	618.55	Yes	with only EW 4 & EW 5
RW-02	09/18/12	635.60	635.38	613.68	588.68	17.84	0.06	17.90	18.08	617.53	Yes	
RW-02	11/21/12	635.60	635.38	613.68	588.68	18.60	0.10	18.70	18.85	616.76	Yes	
RW-02	03/25/13	635.60	635.38	613.68	588.68	NM	NM	NM			NM	Too Much Snow on Well
RW-02	05/05/13	635.60	635.38	613.68	588.68	17.10	0.84	17.94	17.51	618.10	Yes	
RW-02	10/03/13	635.60	635.38	613.68	588.68	18.44	0.81	19.25	18.85	616.77	Yes	
RW-03	05/04/90	634.00	636.96	612.50	587.50	NP	0.00	22.55	19.59	614.41	Yes	
RW-03	06/01/90	634.00	636.96	612.50	587.50	NP	0.00	22.15	19.19	614.81	Yes	
RW-03	06/19/90	634.00	636.96	612.50	587.50	22.03	0.01	22.04	19.07	614.93	Yes	
RW-03	06/27/90	634.00	636.96	612.50	587.50	NP	0.00	22.18	19.22	614.78	Yes	
RW-03	07/05/90	634.00	636.96	612.50	587.50	NP	0.00	22.30	19.34	614.66	Yes	
RW-03	07/13/90	634.00	636.96	612.50	587.50	NP	0.00	22.18	19.22	614.78	Yes	
RW-03	07/17/90	634.00	636.96	612.50	587.50	NP	0.00	22.08	19.12	614.88	Yes	
RW-03	07/25/90	634.00	636.96	612.50	587.50	NP	0.00	22.18	19.22	614.78	Yes	
RW-03	08/09/90	634.00	636.96	612.50	587.50	21.83	0.33	22.16	18.94	615.06	Yes	
RW-03	09/06/90	634.00	636.96	612.50	587.50	NP	0.00	21.88	18.92	615.08	Yes	
RW-03	01/04/91	634.00	636.96	612.50	587.50	NP	0.00	21.45	18.49	615.51	Yes	

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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-03	01/30/91	634.00	636.96	612.50	587.50	NP	0.00	21.67	18.71	615.29	Yes	
RW-03	04/24/91	634.00	636.96	612.50	587.50	NP	0.00	21.86	18.90	615.10	Yes	
RW-03	07/09/91	634.00	636.96	612.50	587.50	NP	0.00	19.48	16.52	617.48	Yes	
RW-03	10/08/91	634.00	636.96	612.50	587.50	NP	0.00	18.04	15.08	618.92	Yes	
RW-03	01/07/92	634.00	636.96	612.50	587.50	NP	0.00	18.62	15.66	618.34	Yes	
RW-03	10/14/92	634.00	636.96	612.50	587.50	NP	0.00	18.82	15.86	618.14	Yes	
RW-03	06/25/93	634.00	636.96	612.50	587.50	NP	0.00	16.06	13.10	620.90	Yes	
RW-03	10/28/93	634.00	636.96	612.50	587.50	NP	0.00	19.38	16.42	617.58	Yes	
RW-03	01/29/94	634.00	636.96	612.50	587.50	NP	0.00	20.24	17.28	616.72	Yes	
RW-03	04/27/94	634.00	636.96	612.50	587.50	NP	0.00	19.70	16.74	617.26	Yes	
RW-03	07/21/94	634.00	636.96	612.50	587.50	NP	0.00	18.70	15.74	618.26	Yes	
RW-03	10/25/94	634.00	636.96	612.50	587.50	NP	0.00	19.21	16.25	617.75	Yes	
RW-03	02/01/95	634.00	636.96	612.50	587.50	NP	0.00	20.75	17.79	616.21	Yes	
RW-03	04/04/95	634.00	636.96	612.50	587.50	NP	0.00	21.38	18.42	615.58	Yes	
RW-03	07/12/95	634.00	636.96	612.50	587.50	NP	0.00	20.10	17.14	616.86	Yes	
RW-03	11/03/98	634.00	636.96	612.50	587.50	NP	0.00	21.13	18.17	615.83	Yes	
RW-03	03/02/99	634.00	636.96	612.50	587.50	NP	0.00	21.40	18.44	615.56	Yes	
RW-03	10/07/99	634.00	636.96	612.50	587.50	NP	0.00	17.89	14.93	619.07	Yes	
RW-03	11/09/99	634.00	636.96	612.50	587.50	NP	0.00	17.67	14.71	619.29	Yes	
RW-03	12/21/99	634.00	636.96	612.50	587.50	NP	0.00	19.25	16.29	617.71	Yes	
RW-03	01/27/00	634.00	636.96	612.50	587.50	NP	0.00	20.32	17.36	616.64	Yes	
RW-03	02/24/00	634.00	636.96	612.50	587.50	NP	0.00	20.81	17.85	616.15	Yes	
RW-03	03/31/00	634.00	636.96	612.50	587.50	NP	0.00	20.53	17.57	616.43	Yes	
RW-03	04/20/00	634.00	636.96	612.50	587.50	NP	0.00	20.04	17.08	616.92	Yes	
RW-03	04/26/00	634.00	636.96	612.50	587.50	NP	0.00	20.13	17.17	616.83	Yes	
RW-03	05/31/00	634.00	636.96	612.50	587.50	NP	0.00	20.14	17.18	616.82	Yes	
RW-03	06/29/00	634.00	636.96	612.50	587.50	NP	0.00	19.93	16.97	617.03	Yes	
RW-03	07/26/00	634.00	636.96	612.50	587.50	NP	0.00	19.93	16.97	617.03	Yes	
RW-03	08/18/00	634.00	636.96	612.50	587.50	NP	0.00	20.48	17.52	616.48	Yes	
RW-03	09/27/00	634.00	636.96	612.50	587.50	NP	0.00	20.98	18.02	615.98	Yes	
RW-03	10/11/00	634.00	636.96	612.50	587.50	NP	0.00	21.08	18.12	615.88	Yes	
RW-03	11/17/00	634.00	636.96	612.50	587.50	NP	0.00	20.71	17.75	616.25	Yes	
RW-03	12/12/00	634.00	636.96	612.50	587.50	NP	0.00	20.74	17.78	616.22	Yes	
RW-03	01/18/01	634.00	636.96	612.50	587.50	NP	0.00	21.13	18.17	615.83	Yes	
RW-03	06/19/01	634.00	636.96	612.50	587.50	NP	0.00	19.41	16.45	617.55	Yes	
RW-03	08/31/01	634.00	636.96	612.50	587.50	NP	0.00	20.72	17.76	616.24	Yes	
RW-03	02/26/02	634.00	636.96	612.50	587.50	NP	0.00	21.95	18.99	615.01	Yes	
RW-03	03/20/02	634.00	636.96	612.50	587.50	NP	0.00	22.14	19.18	614.82	Yes	
RW-03	08/20/02	634.00	636.96	612.50	587.50	NP	0.00	20.47	17.51	616.49	Yes	
RW-03	08/20/02	634.00	636.96	612.50	587.50	NP	0.00	20.47	17.51	616.49	Yes	

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RW-03	06/10/03	634.00	636.96	612.50	587.50	NP	0.00	21.51	18.55	615.45	Yes	
RW-03	12/03/03	634.00	636.96	612.50	587.50	NP	0.00	22.15	19.19	614.81	Yes	
RW-03	04/19/04	634.20	636.75	612.50	587.50	NP	0.00	22.51	19.96	614.24	Yes	
RW-03	07/28/04	634.20	636.75	612.50	587.50	NP	0.00	21.32	18.77	615.43	Yes	
RW-03	07/28/04	634.20	636.75	612.50	587.50	NP	0.00	20.31	17.76	616.44	Yes	
RW-03	11/15/04	634.20	636.75	612.50	587.50	NP	0.00	20.31	17.76	616.44	Yes	
RW-03	04/18/05	634.20	636.75	612.50	587.50	NP	0.00	20.81	18.26	615.94	Yes	
RW-03	10/11/05	634.20	636.75	612.50	587.50	NP	0.00	20.15	17.60	616.60	Yes	
RW-03	05/23/06	634.20	636.75	612.50	587.50	NP	0.00	19.16	16.61	617.59	Yes	
RW-03	10/16/06	634.20	636.75	612.50	587.50	NP	0.00	20.75	18.20	616.00	Yes	
RW-03	04/23/07	634.20	636.75	612.50	587.50	NP	0.00	21.68	19.13	615.07	Yes	
RW-03	09/25/07	634.20	636.75	612.50	587.50	NP	0.00	21.62	19.07	615.13	Yes	
RW-03	05/01/08	634.20	636.75	612.50	587.50	NP	0.00	20.01	17.46	616.74	Yes	
RW-03	10/20/08	634.20	636.75	612.50	587.50	NP	0.00	18.51	15.96	618.24	Yes	
RW-03	04/18/09	634.20	636.75	612.50	587.50	NP	0.00	19.63	17.08	617.12	Yes	
RW-03	10/11/09	634.20	636.75	612.50	587.50	NP	0.00	20.50	17.95	616.25	Yes	
RW-03	04/28/10	634.20	636.75	612.50	587.50	NP	0.00	20.55	18.00	616.20	Yes	
RW-03	10/25/10	634.20	636.75	612.50	587.50	NP	0.00	18.39	15.84	618.36	Yes	
RW-03	04/25/11	634.20	636.75	612.50	587.50	NP	0.00	19.39	16.84	617.36	Yes	
RW-03	09/14/11	634.20	636.75	612.50	587.50	NP	0.00	18.85	16.30	617.90	Yes	
RW-03	09/23/11	634.20	636.75	612.50	587.50	NP	0.00	19.05	16.50	617.70	Yes	
RW-03	09/29/11	634.20	636.75	612.50	587.50	NP	0.00	18.91	16.36	617.84	Yes	
RW-03	10/07/11	634.20	636.75	612.50	587.50	NP	0.00	19.08	16.53	617.67	Yes	
RW-03	10/11/11	634.20	636.75	612.50	587.50	NP	0.00	19.22	16.67	617.53	Yes	
RW-03	10/21/11	634.20	636.75	612.50	587.50	NP	0.00	19.45	16.90	617.30	Yes	
RW-03	10/27/11	634.20	636.75	612.50	587.50	NP	0.00	19.59	17.04	617.16	Yes	
RW-03	11/04/11	634.20	636.75	612.50	587.50	NP	0.00	19.82	17.27	616.93	Yes	
RW-03	11/09/11	634.20	636.75	612.50	587.50	NP	0.00	19.70	17.15	617.05	Yes	
RW-03	11/18/11	634.20	636.75	612.50	587.50	NP	0.00	19.86	17.31	616.89	Yes	
RW-03	11/22/11	634.20	636.75	612.50	587.50	NP	0.00	20.01	17.46	616.74	Yes	
RW-03	12/01/11	634.20	636.75	612.50	587.50	NP	0.00	20.40	17.85	616.35	Yes	
RW-03	01/04/12	634.20	636.75	612.50	587.50	NP	0.00	20.70	18.15	616.05	Yes	
RW-03	02/16/12	634.20	636.75	612.50	587.50	NP	0.00	21.30	18.75	615.45	Yes	
RW-03	03/16/12	634.20	636.75	612.50	587.50	NP	0.00	21.45	18.90	615.30	Yes	
RW-03	04/16/12	634.20	636.75	612.50	587.50	NP	0.00	21.55	19.00	615.20	Yes	
RW-03	05/18/12	634.20	636.75	612.50	587.50	NP	0.00	20.51	17.96	616.24	Yes	
RW-03	06/26/12	634.20	636.75	612.50	587.50	NP	0.00	18.54	15.99	618.21	Yes	
RW-03	07/24/12	634.20	636.75	612.50	587.50	NP	0.00	19.35	16.80	617.40	Yes	
RW-03	08/17/12	634.20	636.75	612.50	587.50	NP	0.00	19.70	17.15	617.05	Yes	
RW-03	09/17/12	634.20	636.75	612.50	587.50	NP	0.00	20.24	17.69	616.51	Yes	

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RW-03	09/30/12	634.20	636.75	612.50	587.50	NP	0.00	20.45	17.90	616.30	Yes	
RW-03	11/21/12	634.20	636.75	612.50	587.50	NP	0.00	20.96	18.41	615.79	Yes	
RW-03	12/17/12	634.20	636.75	612.50	587.50	NP	0.00	21.16	18.61	615.59	Yes	
RW-03	03/25/13	634.20	636.75	612.50	587.50	NP	0.00	22.11	19.56	614.64	Yes	
RW-03	05/05/13	634.20	636.75	612.50	587.50	NP	0.00	21.68	19.13	615.07	Yes	
RW-03	10/01/13	634.20	636.75	612.50	587.50	NP	0.00	20.96	18.41	615.79	Yes	
RW-03	05/21/14	634.20	636.75	612.50	587.50	NP	0.00	19.42	16.87	617.33	Yes	
RW-03	10/30/14	634.20	636.75	612.50	587.50	NP	0.00	18.87	16.32	617.88	Yes	
RW-03	05/06/15	634.20	636.75	612.50	587.50	NP	0.00	20.85	18.30	615.90	Yes	
RW-03	10/07/15	634.20	636.75	612.50	587.50	NP	0.00	19.11	16.56	617.64	Yes	
RW-03	05/23/16	634.20	636.75	612.50	587.50	NP	0.00	16.51	13.96	620.24	Yes	
RW-03	10/03/16	634.20	636.75	612.50	587.50	NP	0.00	18.01	15.46	618.74	Yes	
RW-03	06/14/17	634.20	636.75	612.50	587.50	NP	0.00	16.68	14.13	620.07	Yes	
RW-03	06/21/17	634.20	636.75	612.50	587.50	NP	0.00	17.13	14.58	619.62	Yes	
RW-03	06/22/17	634.20	636.75	612.50	587.50	NP	0.00	16.98	14.43	619.77	Yes	
RW-03	06/23/17	634.20	636.75	612.50	587.50	NP	0.00	17.05	14.50	619.70	Yes	
RW-04	06/01/90	634.70	636.48	612.80	587.80	21.52	4.80	26.32	20.82	613.87	Yes	
RW-04	01/04/91	634.70	636.48	612.80	587.80	20.95	2.81	23.76	19.80	614.89	Yes	
RW-04	01/30/91	634.70	636.48	612.80	587.80	21.10	2.45	23.55	19.87	614.82	Yes	
RW-04	04/24/91	634.70	636.48	612.80	587.80	21.20	2.59	23.79	20.00	614.69	Yes	
RW-04	06/06/91	634.70	636.48	612.80	587.80	19.97	2.27	22.24	18.70	615.99	Yes	
RW-04	07/09/91	634.70	636.48	612.80	587.80	19.02	2.20	21.22	17.74	616.96	Yes	
RW-04	08/06/91	634.70	636.48	612.80	587.80	18.13	2.25	20.38	16.86	617.84	Yes	
RW-04	09/04/91	634.70	636.48	612.80	587.80	18.07	2.60	20.67	16.88	617.82	Yes	
RW-04	10/08/91	634.70	636.48	612.80	587.80	17.13	2.70	19.83	15.96	618.73	Yes	
RW-04	11/08/91	634.70	636.48	612.80	587.80	17.66	3.05	20.71	16.57	618.12	Yes	
RW-04	12/03/91	634.70	636.48	612.80	587.80	15.95	3.47	19.42	14.95	619.74	Yes	
RW-04	01/07/92	634.70	636.48	612.80	587.80	17.40	3.47	20.87	16.40	618.29	Yes	
RW-04	02/04/92	634.70	636.48	612.80	587.80	18.15	3.22	21.37	17.10	617.60	Yes	
RW-04	03/03/92	634.70	636.48	612.80	587.80	18.56	3.14	21.70	17.49	617.20	Yes	
RW-04	09/24/92	634.70	636.48	612.80	587.80	16.57	4.98	21.55	15.91	618.77	Yes	
RW-04	10/14/92	634.70	636.48	612.80	587.80	17.60	4.07	21.67	16.74	617.95	Yes	
RW-04	06/25/93	634.70	636.48	612.80	587.80	14.49	4.87	19.36	13.81	620.88	Yes	
RW-04	10/28/93	634.70	636.48	612.80	587.80	18.16	3.47	21.63	17.16	617.53	Yes	
RW-04	01/29/94	634.70	636.48	612.80	587.80	18.87	3.48	22.35	17.88	616.82	Yes	
RW-04	04/27/94	634.70	636.48	612.80	587.80	18.67	3.42	22.09	17.66	617.03	Yes	
RW-04	07/21/94	634.70	636.48	612.80	587.80	17.34	4.22	21.56	16.51	618.18	Yes	
RW-04	10/25/94	634.70	636.48	612.80	587.80	17.95	4.02	21.97	17.08	617.61	Yes	
RW-04	11/02/94	634.70	636.48	612.80	587.80	17.55	3.95	21.50	16.66	618.03	Yes	

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RW-04	02/01/95	634.70	636.48	612.80	587.80	14.95	8.25	23.20	15.03	619.65	Yes	
RW-04	04/04/95	634.70	636.48	612.80	587.80	15.60	9.85	25.45	16.04	618.63	Yes	
RW-04	11/14/95	634.70	636.48	612.80	587.80	15.08	5.24	20.32	14.48	620.21	Yes	
RW-04	11/09/99	634.70	636.48	612.80	587.80	15.85	6.23	22.08	15.48	619.21	Yes	bailed 11 gal FP
RW-04	12/21/99	634.70	636.48	612.80	587.80	18.55	1.14	19.69	17.03	617.67	Yes	bailed 2 gal FP
RW-04	01/27/00	634.70	636.48	612.80	587.80	19.30	1.55	20.85	17.87	616.83	Yes	bailed 0.2 gal FP
RW-04	02/24/00	634.70	636.48	612.80	587.80	15.60	1.85	17.45	14.24	620.46	Yes	bailed 1.5 gal FP
RW-04	03/31/00	634.70	636.48	612.80	587.80	19.58	0.95	20.53	18.01	616.68	Yes	bailed 0.25 gal FP
RW-04	04/26/00	634.70	636.48	612.80	587.80	18.37	1.70	20.07	16.97	617.72	Yes	bailed 2.5 gal FP
RW-04	05/31/00	634.70	636.48	612.80	587.80	19.49	0.43	19.92	17.81	616.89	Yes	bailed 1 gal FP
RW-04	06/29/00	634.70	636.48	612.80	587.80	19.34	0.43	19.77	17.66	617.04	Yes	bailed 2 gal FP
RW-04	07/26/00	634.70	636.48	612.80	587.80	19.56	0.30	19.86	17.85	616.85	Yes	bailed 0.5 gal FP
RW-04	08/18/00	634.70	636.48	612.80	587.80	20.13	0.13	20.26	18.38	616.32	Yes	bailed 0.125
RW-04	09/27/00	634.70	636.48	612.80	587.80	20.05	1.32	21.37	18.57	616.13	Yes	bailed 3 gal. FP
RW-04	10/11/00	634.70	636.48	612.80	587.80	20.35	0.02	20.37	18.57	616.13	Yes	bailed 3 gal. FP
RW-04	11/17/00	634.70	636.48	612.80	587.80	20.11	0.78	20.89	18.51	616.19	Yes	bailed 0.75 gal. FP
RW-04	12/12/00	634.70	636.48	612.80	587.80	19.92	1.13	21.05	18.40	616.30	Yes	bailed 0.25 gal. FP
RW-04	01/18/01	634.70	636.48	612.80	587.80	20.44	0.92	21.36	18.87	615.83	Yes	bailed 0.25 gal. FP
RW-04	04/24/01	634.70	636.48	612.80	587.80	19.56	1.58	21.14	18.14	616.56	Yes	product abated using vactruck
RW-04	05/23/01	634.70	636.48	612.80	587.80	18.98	2.16	21.14	17.69	617.01	Yes	no product bailed
RW-04	06/19/01	634.70	636.48	612.80	587.80	18.91	0.27	19.18	17.19	617.51	Yes	
RW-04	07/26/01	634.70	636.48	612.80	587.80	19.60	0.28	19.88	17.88	616.82	Yes	
RW-04	08/31/01	634.70	636.48	612.80	587.80	19.98	0.27	20.25	18.26	616.44	Yes	
RW-04	09/26/01	634.70	636.48	612.80	587.80	20.02	0.30	20.32	18.31	616.39	Yes	
RW-04	10/24/01	634.70	636.48	612.80	587.80	19.99	1.08	21.07	18.45	616.24	Yes	
RW-04	02/26/02	634.70	636.48	612.80	587.80	20.35	4.68	25.03	19.63	615.06	Yes	
RW-04	03/20/02	634.70	636.48	612.80	587.80	20.48	5.90	26.38	20.03	614.65	Yes	
RW-04	04/24/02	634.70	636.48	612.80	587.80	19.72	5.65	25.37	19.22	615.47	Yes	
RW-04	05/15/02	634.70	636.48	612.80	587.80	19.43	3.50	22.93	18.44	616.25	Yes	
RW-04	06/27/02	634.70	636.48	612.80	587.80	19.70	3.19	22.89	18.64	616.05	Yes	
RW-04	07/25/02	634.70	636.48	612.80	587.80	19.58	2.12	21.70	18.28	616.42	Yes	
RW-04	08/20/02	634.70	636.48	612.80	587.80	19.53	1.75	21.28	18.15	616.55	Yes	
RW-04	09/30/02	634.70	636.48	612.80	587.80	19.14	1.45	20.59	17.69	617.01	Yes	
RW-04	11/05/02	634.70	636.48	612.80	587.80	18.88	1.42	20.30	17.42	617.28	Yes	
RW-04	12/23/02	634.70	636.48	612.80	587.80	20.81	0.46	21.27	19.13	615.57	Yes	
RW-04	01/28/03	634.70	636.48	612.80	587.80	20.34	1.71	22.05	18.95	615.75	Yes	
RW-04	02/19/03	634.70	636.48	612.80	587.80	20.41	2.43	22.84	19.18	615.52	Yes	
RW-04	04/17/03	634.70	636.48	612.80	587.80	20.77	5.88	26.65	20.32	614.37	Yes	
RW-04	05/15/03	634.70	636.48	612.80	587.80	20.94	4.94	25.88	20.28	614.41	Yes	
RW-04	06/10/03	634.70	636.48	612.80	587.80	20.42	5.84	26.26	19.96	614.73	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-04	10/23/03	634.70	636.48	612.80	587.80	20.67	7.04	27.71	20.48	614.20	Yes	
RW-04	12/03/03	634.70	636.48	612.80	587.80	20.83	7.37	28.20	20.71	613.97	Yes	
RW-04	04/19/04	634.82	636.24	612.80	587.80	21.45	5.73	27.18	21.32	613.48	Yes	
RW-04	07/28/04	634.82	636.24	612.80	587.80	20.61	2.19	22.80	19.68	615.13	Yes	
RW-04	11/15/04	634.82	636.24	612.80	587.80	19.76	1.33	21.09	18.64	616.18	Yes	
RW-04	04/18/05	634.82	636.24	612.80	587.80	20.27	2.77	23.04	19.48	615.34	Yes	
RW-04	10/11/05	634.82	636.24	612.80	587.80	19.38	2.20	21.58	18.46	616.36	Yes	
RW-04	05/23/06	634.82	636.24	612.80	587.80	18.63	2.28	20.91	17.72	617.09	Yes	
RW-04	10/16/06	634.82	636.24	612.80	587.80	19.83	4.02	23.85	19.32	615.49	Yes	
RW-04	04/23/07	634.82	636.24	612.80	587.80	20.25	0.83	21.08	19.02	615.80	Yes	
RW-04	09/25/07	634.82	636.24	612.80	587.80	20.50	7.73	28.23	20.83	613.98	Yes	
RW-04	05/01/08	634.82	636.24	612.80	587.80	19.41	2.47	21.88	18.55	616.27	Yes	
RW-04	10/20/08	634.82	636.24	612.80	587.80	17.75	2.81	20.56	16.96	617.85	Yes	
RW-04	04/18/09	634.82	636.24	612.80	587.80	19.08	2.45	21.53	18.21	616.60	Yes	
RW-04	08/04/09	634.82	636.24	612.80	587.80	19.58	3.44	23.02	18.94	615.88	Yes	
RW-04	08/26/09	634.82	636.24	612.80	587.80	19.39	2.79	22.18	18.60	616.21	Yes	
RW-04	09/03/09	634.82	636.24	612.80	587.80	19.13	2.67	21.80	18.31	616.50	Yes	
RW-04	09/08/09	634.82	636.24	612.80	587.80	19.19	2.61	21.80	18.36	616.45	Yes	
RW-04	09/14/09	634.82	636.24	612.80	587.80	19.25	2.60	21.85	18.42	616.40	Yes	
RW-04	10/11/09	634.82	636.24	612.80	587.80	19.79	2.86	22.65	19.02	615.80	Yes	
RW-04	10/15/09	634.82	636.24	612.80	587.80	19.79	2.86	22.65	19.02	615.80	Yes	
RW-04	04/28/10	634.82	636.24	612.80	587.80	19.67	3.96	23.63	19.14	615.67	Yes	
RW-04	10/25/10	634.82	636.24	612.80	587.80	17.60	3.09	20.69	16.88	617.94	Yes	
RW-04	04/25/11	634.82	636.24	612.80	587.80	18.85	2.59	21.44	18.01	616.80	Yes	
RW-04	09/14/11	634.82	636.24	612.80	587.80	18.08	3.26	21.34	17.40	617.42	Yes	
RW-04	09/23/11	634.82	636.24	612.80	587.80	18.21	3.11	21.32	17.49	617.32	Yes	
RW-04	09/29/11	634.82	636.24	612.80	587.80	18.20	3.03	21.23	17.46	617.35	Yes	
RW-04	10/07/11	634.82	636.24	612.80	587.80	18.41	2.76	21.17	17.61	617.20	Yes	
RW-04	10/11/11	634.82	636.24	612.80	587.80	18.57	2.67	21.24	17.75	617.06	Yes	
RW-04	10/21/11	634.82	636.24	612.80	587.80	18.88	2.47	21.35	18.02	616.80	Yes	
RW-04	10/27/11	634.82	636.24	612.80	587.80	18.99	2.41	21.40	18.11	616.70	Yes	
RW-04	11/04/11	634.82	636.24	612.80	587.80	19.20	2.38	21.58	18.32	616.50	Yes	
RW-04	11/09/11	634.82	636.24	612.80	587.80	19.12	2.36	21.48	18.23	616.58	Yes	
RW-04	11/18/11	634.82	636.24	612.80	587.80	19.26	2.37	21.63	18.38	616.44	Yes	
RW-04	11/22/11	634.82	636.24	612.80	587.80	19.40	2.44	21.84	18.53	616.28	Yes	
RW-04	12/01/11	634.82	636.24	612.80	587.80	19.76	2.46	22.22	18.90	615.92	Yes	
RW-04	01/04/12	634.82	636.24	612.80	587.80	20.05	2.47	22.52	19.19	615.63	Yes	
RW-04	02/16/12	634.82	636.24	612.80	587.80	20.40	3.87	24.27	19.85	614.96	Yes	
RW-04	03/13/12	634.82	636.24	612.80	587.80	20.45	6.55	27.00	20.51	614.30	Yes	
RW-04	04/03/12	634.82	636.24	612.80	587.80	20.37	7.43	27.80	20.63	614.18	Yes	Spill Buddy Before Reading

Table 3
Groundwater and LNAPL Gauging Data - Terminal
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-04	04/03/12	634.82	636.24	612.80	587.80	26.67	0.13	26.80	25.28	609.54	No	Spill Buddy After Reading
RW-04	04/16/12	634.82	636.24	612.80	587.80	20.64	4.76	25.40	20.30	614.51	Yes	
RW-04	05/10/12	634.82	636.24	612.80	587.80	19.76	5.32	25.08	19.54	615.27	Yes	Spill Buddy Before Reading
RW-04	05/10/12	634.82	636.24	612.80	587.80	24.20	0.07	24.27	22.80	612.02	No	Spill Buddy After Reading
RW-04	05/18/12	634.82	636.24	612.80	587.80	19.82	4.53	24.35	19.42	615.39	Yes	
RW-04	05/21/12	634.82	636.24	612.80	587.80	19.92	4.56	24.48	19.53	615.28	Yes	Spill Buddy Before Reading
RW-04	05/21/12	634.82	636.24	612.80	587.80	23.95	0.14	24.09	22.56	612.26	No	Spill Buddy After Reading
RW-04	06/18/12	634.82	636.24	612.80	587.80	18.85	2.50	21.35	17.99	616.82	Yes	Spill Buddy Before Reading
RW-04	06/18/12	634.82	636.24	612.80	587.80	20.90	0.10	21.00	19.50	615.32	Yes	Spill Buddy After Reading
RW-04	06/26/12	634.82	636.24	612.80	587.80	18.60	0.20	18.80	17.23	617.59	Yes	
RW-04	07/12/12	634.82	636.24	612.80	587.80	20.05	0.11	20.16	18.65	616.16	Yes	
RW-04	07/24/12	634.82	636.24	612.80	587.80	18.88	2.72	21.60	18.07	616.74	Yes	
RW-04	08/09/12	634.82	636.24	612.80	587.80	18.90	3.45	22.35	18.26	616.55	Yes	Spill Buddy Before Reading
RW-04	08/09/12	634.82	636.24	612.80	587.80	21.29	0.16	21.45	19.91	614.91	Yes	Spill Buddy After Reading
RW-04	08/17/12	634.82	636.24	612.80	587.80	19.33	2.45	21.78	18.46	616.35	Yes	
RW-04	09/17/12	634.82	636.24	612.80	587.80	19.60	4.60	24.20	19.22	615.59	Yes	
RW-04	09/18/12	634.82	636.24	612.80	587.80	19.59	4.59	24.18	19.21	615.60	Yes	Spill Buddy Before Reading
RW-04	09/18/12	634.82	636.24	612.80	587.80	23.60	0.07	23.67	22.20	612.62	No	Spill Buddy After Reading
RW-04	09/30/12	634.82	636.24	612.80	587.80	20.49	0.95	21.44	19.28	615.53	Yes	
RW-04	10/22/12	634.82	636.24	612.80	587.80	20.49	3.07	23.56	19.76	615.05	Yes	
RW-04	11/21/12	634.82	636.24	612.80	587.80	20.22	6.23	26.45	20.21	614.60	Yes	
RW-04	12/17/12	634.82	636.24	612.80	587.80	20.20	8.05	28.25	20.60	614.20	Yes	
RW-04	03/25/13	634.82	636.24	612.80	587.80	20.78	10.02	30.80	21.62	613.18	Yes	
RW-04	04/03/13	634.82	636.24	612.80	587.80	20.85	9.74	30.59	21.63	613.17	Yes	Spill Buddy Before Reading
RW-04	04/03/13	634.82	636.24	612.80	587.80	28.69	0.26	28.95	27.33	607.49	No	Spill Buddy After Reading
RW-04	04/29/13	634.82	636.24	612.80	587.80	20.77	6.31	27.08	20.78	614.03	Yes	Spill Buddy Before Reading
RW-04	04/29/13	634.82	636.24	612.80	587.80	26.38	0.09	26.47	24.98	609.84	No	Spill Buddy After Reading
RW-04	05/05/13	634.82	636.24	612.80	587.80	21.14	2.54	23.68	20.29	614.52	Yes	
RW-04	10/03/13	634.82	636.24	612.80	587.80	20.15	5.10	25.25	19.88	614.93	Yes	
RW-04	05/22/14	634.82	636.24	612.80	587.80	18.99	1.79	20.78	17.97	616.84	Yes	
RW-04	10/31/14	634.82	636.24	612.80	587.80	18.38	4.45	22.83	17.97	616.85	Yes	
RW-04	05/06/15	634.82	636.24	612.80	587.80	19.90	5.62	25.52	19.75	615.06	Yes	
RW-04	07/10/15	634.82	636.24	612.80	587.80	19.24	2.31	21.55	18.34	616.47	Yes	
RW-04	10/05/15	634.82	636.24	612.80	587.80	18.25	2.44	20.69	17.38	617.43	Yes	
RW-04	05/23/16	634.82	636.24	612.80	587.80	15.49	5.89	21.38	15.40	619.41	Yes	
RW-04	10/03/16	634.82	636.24	612.80	587.80	16.89	5.65	22.54	16.75	618.06	Yes	
RW-04	06/14/17	634.82	636.24	612.80	587.80	15.54	5.72	21.26	15.41	619.40	Yes	
RW-04	06/21/17	634.82	636.24	612.80	587.80	16.20	5.16	21.36	15.95	618.86	Yes	
RW-04	06/22/17	634.82	636.24	612.80	587.80	16.80	1.12	17.92	15.63	619.18	Yes	
RW-04	06/23/17	634.82	636.24	612.80	587.80	16.97	0.98	17.95	15.77	619.05	Yes	

Table 3
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Superior, Wisconsin

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RW-04	10/26/17	634.82	636.24	612.80	587.80	14.69	2.53	17.22	13.84	620.97	Yes	
RW-04	05/23/18	634.82	636.24	612.80	587.80	19.40	2.10	21.50	18.45	616.36	Yes	
RW-05	05/04/90	636.00	638.51	613.30	588.30	23.50	0.85	24.35	21.18	614.82	Yes	
RW-05	06/01/90	636.00	638.51	613.30	588.30	23.00	1.45	24.45	20.82	615.18	Yes	
RW-05	06/19/90	636.00	638.51	613.30	588.30	22.95	1.70	24.65	20.82	615.18	Yes	
RW-05	06/27/90	636.00	638.51	613.30	588.30	23.33	0.21	23.54	20.87	615.13	Yes	
RW-05	07/05/90	636.00	638.51	613.30	588.30	23.48	0.40	23.88	21.06	614.94	Yes	
RW-05	07/13/90	636.00	638.51	613.30	588.30	23.38	0.48	23.86	20.98	615.02	Yes	
RW-05	07/17/90	636.00	638.51	613.30	588.30	23.18	0.57	23.75	20.80	615.20	Yes	
RW-05	07/25/90	636.00	638.51	613.30	588.30	23.35	0.65	24.00	20.99	615.01	Yes	
RW-05	08/09/90	636.00	638.51	613.30	588.30	23.20	0.80	24.00	20.87	615.13	Yes	
RW-05	09/06/90	636.00	638.51	613.30	588.30	22.72	2.21	24.93	20.71	615.29	Yes	
RW-05	01/04/91	636.00	638.51	613.30	588.30	22.05	3.20	25.25	20.26	615.74	Yes	
RW-05	01/30/91	636.00	638.51	613.30	588.30	22.22	3.34	25.56	20.46	615.54	Yes	
RW-05	04/24/91	636.00	638.51	613.30	588.30	22.40	3.32	25.72	20.64	615.36	Yes	
RW-05	07/09/91	636.00	638.51	613.30	588.30	20.41	4.17	24.58	18.84	617.16	Yes	
RW-05	10/08/91	636.00	638.51	613.30	588.30	18.62	5.32	23.94	17.31	618.69	Yes	
RW-05	01/07/92	636.00	638.51	613.30	588.30	18.73	5.71	24.44	17.51	618.49	Yes	
RW-05	10/14/92	636.00	638.51	613.30	588.30	18.56	7.16	25.72	17.67	618.33	Yes	
RW-05	06/25/93	636.00	638.51	613.30	588.30	16.28	7.74	24.02	15.52	620.48	Yes	
RW-05	10/28/93	636.00	638.51	613.30	588.30	18.84	7.70	26.54	18.07	617.93	Yes	
RW-05	01/29/94	636.00	638.51	613.30	588.30	20.64	6.99	27.63	19.71	616.29	Yes	
RW-05	04/27/94	636.00	638.51	613.30	588.30	20.50	1.87	22.37	18.41	617.59	Yes	
RW-05	07/21/94	636.00	638.51	613.30	588.30	19.28	0.59	19.87	16.90	619.10	Yes	
RW-05	10/25/94	636.00	638.51	613.30	588.30	19.76	1.15	20.91	17.51	618.49	Yes	
RW-05	02/01/95	636.00	638.51	613.30	588.30	20.95	1.30	22.25	18.73	617.27	Yes	
RW-05	04/04/95	636.00	638.51	613.30	588.30	21.72	1.38	23.10	19.52	616.48	Yes	
RW-05	07/12/95	636.00	638.51	613.30	588.30	20.69	1.56	22.25	18.53	617.47	Yes	
RW-05	11/14/95	636.00	638.51	613.30	588.30	19.32	1.81	21.13	17.22	618.78	Yes	
RW-05	03/13/96	636.00	638.51	613.30	588.30	21.17	2.02	23.19	19.12	616.88	Yes	
RW-05	11/03/98	636.00	638.51	613.30	588.30	21.49	2.90	24.39	19.64	616.36	Yes	
RW-05	03/02/99	636.00	638.51	613.30	588.30	21.52	3.05	24.57	19.70	616.30	Yes	
RW-05	10/07/99	636.00	638.51	613.30	588.30	18.61	1.30	19.91	16.39	619.61	Yes	
RW-05	11/09/99	636.00	638.51	613.30	588.30	18.48	0.87	19.35	16.17	619.83	Yes	bailed 0.25 gal. FP
RW-05	12/21/99	636.00	638.51	613.30	588.30	18.56	0.17	18.73	16.09	619.91	Yes	bailed 0.25 gal. FP
RW-05	01/27/00	636.00	638.51	613.30	588.30	20.78	0.90	21.68	18.47	617.53	Yes	bailed 0.2 gal. FP
RW-05	02/24/00	636.00	638.51	613.30	588.30	21.22	0.72	21.94	18.87	617.13	Yes	bailed 0.25 gal. FP
RW-05	03/31/00	636.00	638.51	613.30	588.30	21.33	0.60	21.93	18.96	617.04	Yes	bailed 0.5 gal. FP
RW-05	04/20/00	636.00	638.51	613.30	588.30	20.61	3.10	23.71	18.80	617.20	Yes	bailed 5 gal. FP

Table 3
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RW-05	04/26/00	636.00	638.51	613.30	588.30	20.97	0.58	21.55	18.59	617.41	Yes	bailed 0.5 gal. FP
RW-05	05/31/00	636.00	638.51	613.30	588.30	21.06	0.36	21.42	18.63	617.37	Yes	bailed 0.5 gal. FP
RW-05	06/29/00	636.00	638.51	613.30	588.30	20.88	0.40	21.28	18.46	617.54	Yes	bailed 1 gal. FP
RW-05	07/26/00	636.00	638.51	613.30	588.30	20.97	0.29	21.26	18.53	617.47	Yes	bailed 0.5 gal. FP
RW-05	08/18/00	636.00	638.51	613.30	588.30	21.26	0.47	21.73	18.86	617.14	Yes	bailed 0.25 gal. FP
RW-05	09/27/00	636.00	638.51	613.30	588.30	21.72	0.31	22.03	19.28	616.72	Yes	bailed 0.5 gal FP
RW-05	10/11/00	636.00	638.51	613.30	588.30	21.67	0.07	21.74	19.18	616.82	Yes	bailed 0.01 gal FP
RW-05	11/17/00	636.00	638.51	613.30	588.30	21.61	0.08	21.69	19.12	616.88	Yes	No product bailed
RW-05	12/12/00	636.00	638.51	613.30	588.30	21.48	0.16	21.64	19.01	616.99	Yes	bailed 0.1 gal FP
RW-05	01/18/01	636.00	638.51	613.30	588.30	21.77	0.07	21.84	19.28	616.72	Yes	bailed 0.2 gal FP
RW-05	04/24/01	636.00	638.51	613.30	588.30	21.90	0.20	22.10	19.44	616.56	Yes	product abated using vactruck
RW-05	05/23/01	636.00	638.51	613.30	588.30	20.75	0.12	20.87	18.27	617.73	Yes	no product bailed
RW-05	06/19/01	636.00	638.51	613.30	588.30	20.63	0.14	20.77	18.15	617.85	Yes	
RW-05	07/26/01	636.00	638.51	613.30	588.30	21.25	0.27	21.52	18.80	617.20	Yes	
RW-05	08/31/01	636.00	638.51	613.30	588.30	21.49	0.32	21.81	19.05	616.95	Yes	
RW-05	09/26/01	636.00	638.51	613.30	588.30	21.63	0.31	21.94	19.19	616.81	Yes	
RW-05	10/24/01	636.00	638.51	613.30	588.30	21.66	0.34	22.00	19.23	616.77	Yes	
RW-05	12/20/01	636.00	638.51	613.30	588.30	22.13	0.33	22.46	19.69	616.31	Yes	
RW-05	01/22/02	636.00	638.51	613.30	588.30	22.17	0.36	22.53	19.74	616.26	Yes	
RW-05	02/26/02	636.00	638.51	613.30	588.30	22.59	0.39	22.98	20.17	615.83	Yes	
RW-05	03/20/02	636.00	638.51	613.30	588.30	22.78	0.39	23.17	20.36	615.64	Yes	
RW-05	04/24/02	636.00	638.51	613.30	588.30	22.09	0.42	22.51	19.67	616.33	Yes	
RW-05	05/15/02	636.00	638.51	613.30	588.30	21.84	0.43	22.27	19.43	616.57	Yes	
RW-05	06/27/02	636.00	638.51	613.30	588.30	21.89	0.49	22.38	19.49	616.51	Yes	
RW-05	07/25/02	636.00	638.51	613.30	588.30	21.75	0.53	22.28	19.36	616.64	Yes	
RW-05	08/20/02	636.00	638.51	613.30	588.30	21.74	0.57	22.31	19.36	616.64	Yes	
RW-05	09/30/02	636.00	638.51	613.30	588.30	21.21	0.69	21.90	18.86	617.14	Yes	
RW-05	11/05/02	636.00	638.51	613.30	588.30	21.01	0.83	21.84	18.69	617.31	Yes	
RW-05	12/23/02	636.00	638.51	613.30	588.30	21.74	0.95	22.69	19.44	616.56	Yes	
RW-05	01/28/03	636.00	638.51	613.30	588.30	22.16	1.03	23.19	19.88	616.12	Yes	
RW-05	02/19/03	636.00	638.51	613.30	588.30	22.39	1.04	23.43	20.11	615.89	Yes	
RW-05	04/17/03	636.00	638.51	613.30	588.30	22.90	1.03	23.93	20.62	615.38	Yes	
RW-05	05/15/03	636.00	638.51	613.30	588.30	23.07	1.02	24.09	20.79	615.21	Yes	
RW-05	06/10/03	636.00	638.51	613.30	588.30	22.61	1.00	23.61	20.33	615.67	Yes	
RW-05	10/23/03	636.00	638.51	613.30	588.30	22.89	1.13	24.02	20.64	615.36	Yes	
RW-05	12/03/03	636.00	638.51	613.30	588.30	23.03	1.16	24.19	20.78	615.22	Yes	
RW-05	04/19/04	636.67	638.61	613.30	588.30	23.38	1.45	24.83	21.77	614.90	Yes	
RW-05	07/28/04	636.67	638.61	613.30	588.30	22.32	2.38	24.70	20.92	615.75	Yes	
RW-05	11/15/04	636.67	638.61	613.30	588.30	21.48	2.73	24.21	20.16	616.51	Yes	
RW-05	04/18/05	636.67	638.61	613.30	588.30	21.85	3.01	24.86	20.59	616.08	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-05	10/11/05	636.67	638.61	613.30	588.30	21.09	3.89	24.98	20.03	616.64	Yes	
RW-05	05/23/06	636.67	638.61	613.30	588.30	20.14	5.07	25.21	19.35	617.32	Yes	
RW-05	10/16/06	636.67	638.61	613.30	588.30	21.19	5.85	27.04	20.57	616.10	Yes	
RW-05	04/23/07	636.67	638.61	613.30	588.30	22.09	5.89	27.98	21.48	615.19	Yes	
RW-05	09/25/07	636.67	638.61	613.30	588.30	21.95	6.00	27.95	21.37	615.30	Yes	
RW-05	05/01/08	636.67	638.61	613.30	588.30	20.99	6.26	27.25	20.46	616.21	Yes	
RW-05	10/20/08	636.67	638.61	613.30	588.30	19.05	6.55	25.60	18.59	618.08	Yes	
RW-05	04/18/09	636.67	638.61	613.30	588.30	20.25	7.64	27.89	20.04	616.63	Yes	
RW-05	10/11/09	636.67	638.61	613.30	588.30	21.06	1.13	22.19	19.38	617.29	Yes	
RW-05	04/28/10	636.67	638.61	613.30	588.30	21.59	1.27	22.86	19.94	616.73	Yes	
RW-05	10/25/10	636.67	638.61	613.30	588.30	19.48	0.72	20.20	17.70	618.97	Yes	
RW-05	04/25/11	636.67	638.61	613.30	588.30	20.59	2.14	22.73	19.13	617.54	Yes	
RW-05	09/14/11	636.67	638.61	613.30	588.30	19.68	2.16	21.84	18.23	618.44	Yes	
RW-05	09/23/11	636.67	638.61	613.30	588.30	19.90	2.21	22.11	18.46	618.21	Yes	
RW-05	09/29/11	636.67	638.61	613.30	588.30	19.79	2.25	22.04	18.36	618.31	Yes	
RW-05	10/07/11	636.67	638.61	613.30	588.30	20.00	2.26	22.26	18.57	618.10	Yes	
RW-05	10/11/11	636.67	638.61	613.30	588.30	20.08	2.30	22.38	18.66	618.01	Yes	
RW-05	10/21/11	636.67	638.61	613.30	588.30	20.37	2.35	22.72	18.96	617.71	Yes	
RW-05	10/27/11	636.67	638.61	613.30	588.30	20.47	2.30	22.77	19.05	617.62	Yes	
RW-05	11/01/11	636.67	638.61	613.30	588.30	20.67	2.32	22.99	19.25	617.42	Yes	
RW-05	11/09/11	636.67	638.61	613.30	588.30	20.60	2.33	22.93	19.19	617.48	Yes	
RW-05	11/18/11	636.67	638.61	613.30	588.30	20.70	2.34	23.04	19.29	617.38	Yes	
RW-05	11/22/11	636.67	638.61	613.30	588.30	20.86	2.39	23.25	19.46	617.21	Yes	
RW-05	12/01/11	636.67	638.61	613.30	588.30	21.21	2.35	23.56	19.80	616.87	Yes	
RW-05	01/04/12	636.67	638.61	613.30	588.30	21.43	2.36	23.79	20.02	616.65	Yes	
RW-05	02/16/12	636.67	638.61	613.30	588.30	22.02	2.34	24.36	20.61	616.06	Yes	
RW-05	03/13/12	636.67	638.61	613.30	588.30	22.29	2.35	24.64	20.88	615.79	Yes	
RW-05	04/05/12	636.67	638.61	613.30	588.30	22.28	2.37	24.65	20.88	615.79	Yes	Spill Buddy Before Reading
RW-05	04/05/12	636.67	638.61	613.30	588.30	24.50	0.05	24.55	22.57	614.10	Yes	Spill Buddy After Reading
RW-05	04/16/12	636.67	638.61	613.30	588.30	22.50	0.15	22.65	20.59	616.08	Yes	
RW-05	05/18/12	636.67	638.61	613.30	588.30	21.68	0.27	21.95	19.80	616.87	Yes	
RW-05	06/18/12	636.67	638.61	613.30	588.30	20.73	0.32	21.05	18.86	617.81	Yes	
RW-05	06/26/12	636.67	638.61	613.30	588.30	20.19	0.32	20.51	18.32	618.35	Yes	
RW-05	07/24/12	636.67	638.61	613.30	588.30	20.62	0.38	21.00	18.77	617.90	Yes	
RW-05	08/17/12	636.67	638.61	613.30	588.30	20.95	0.45	21.40	19.11	617.56	Yes	
RW-05	09/17/12	636.67	638.61	613.30	588.30	21.38	0.57	21.95	19.57	617.10	Yes	
RW-05	09/30/12	636.67	638.61	613.30	588.30	21.59	0.59	22.18	19.78	616.89	Yes	
RW-05	11/21/12	636.67	638.61	613.30	588.30	22.02	0.62	22.64	20.22	616.45	Yes	
RW-05	12/17/12	636.67	638.61	613.30	588.30	22.25	0.66	22.91	20.46	616.21	Yes	
RW-05	03/25/13	636.67	638.61	613.30	588.30	23.09	0.83	23.92	21.34	615.33	Yes	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-05	05/05/13	636.67	638.61	613.30	588.30	22.72	0.84	23.56	20.97	615.70	Yes	
RW-05	10/03/13	636.67	638.61	613.30	588.30	22.09	1.15	23.24	20.41	616.26	Yes	
RW-05	05/22/14	636.67	638.61	613.30	588.30	20.69	1.53	22.22	19.10	617.57	Yes	
RW-05	10/31/14	636.67	638.61	613.30	588.30	20.15	1.94	22.09	18.65	618.02	Yes	
RW-05	05/06/15	636.67	638.61	613.30	588.30	21.77	2.19	23.96	20.32	616.35	Yes	
RW-05	10/05/15	636.67	638.61	613.30	588.30	19.94	2.50	22.44	18.56	618.11	Yes	
RW-05	10/03/16	636.67	638.61	613.30	588.30	18.83	2.61	21.44	17.48	619.19	Yes	
RW-05	06/29/17	636.67	638.61	613.30	588.30	18.40	2.65	21.05	17.06	619.61	Yes	
RW-06	06/01/90	635.20	637.96	615.00	590.00	20.50	4.70	25.20	18.80	616.33	Yes	
RW-06	01/30/91	635.20	637.96	615.00	590.00	20.47	6.14	26.61	19.10	616.02	Yes	
RW-06	04/24/91	635.20	637.96	615.00	590.00	22.22	3.22	25.44	20.19	614.97	No	
RW-06	06/06/91	635.20	637.96	615.00	590.00	20.51	2.75	23.26	18.37	616.79	Yes	
RW-06	07/09/91	635.20	637.96	615.00	590.00	19.32	3.60	22.92	17.37	617.78	Yes	
RW-06	08/06/91	635.20	637.96	615.00	590.00	18.64	3.40	22.04	16.65	618.50	Yes	
RW-06	09/04/91	635.20	637.96	615.00	590.00	18.66	3.28	21.94	16.64	618.51	Yes	
RW-06	10/08/91	635.20	637.96	615.00	590.00	19.73	1.75	21.48	17.37	617.81	Yes	
RW-06	11/08/91	635.20	637.96	615.00	590.00	20.02	1.95	21.97	17.70	617.47	Yes	
RW-06	12/03/91	635.20	637.96	615.00	590.00	16.40	4.19	20.59	14.59	620.55	Yes	
RW-06	01/07/92	635.20	637.96	615.00	590.00	18.41	2.06	20.47	16.12	619.06	Yes	
RW-06	02/04/92	635.20	637.96	615.00	590.00	19.80	2.05	21.85	17.50	617.67	Yes	
RW-06	03/03/92	635.20	637.96	615.00	590.00	19.67	2.45	22.12	17.46	617.70	Yes	
RW-06	09/24/92	635.20	637.96	615.00	590.00	17.32	3.23	20.55	15.29	619.87	Yes	
RW-06	06/25/93	635.20	637.96	615.00	590.00	15.67	2.58	18.25	13.49	621.67	Yes	
RW-06	07/21/93	635.20	637.96	615.00	590.00	16.52	1.82	18.34	14.17	621.00	Yes	
RW-06	08/17/93	635.20	637.96	615.00	590.00	18.14	2.11	20.25	15.86	619.31	Yes	
RW-06	09/09/93	635.20	637.96	615.00	590.00	19.02	2.11	21.13	16.74	618.43	Yes	
RW-06	10/28/93	635.20	637.96	615.00	590.00	19.53	1.68	21.21	17.15	618.03	Yes	
RW-06	11/24/93	635.20	637.96	615.00	590.00	19.87	1.48	21.35	17.44	617.73	Yes	
RW-06	12/17/93	635.20	637.96	615.00	590.00	19.92	1.10	21.02	17.41	617.78	Yes	
RW-06	01/29/94	635.20	637.96	615.00	590.00	19.83	1.72	21.55	17.46	617.72	Yes	
RW-06	02/25/94	635.20	637.96	615.00	590.00	20.06	2.07	22.13	17.77	617.40	Yes	
RW-06	03/24/94	635.20	637.96	615.00	590.00	20.16	1.92	22.08	17.83	617.34	Yes	
RW-06	04/27/94	635.20	637.96	615.00	590.00	19.57	2.00	21.57	17.26	617.91	Yes	
RW-06	05/26/94	635.20	637.96	615.00	590.00	18.64	1.36	20.00	16.19	618.99	Yes	
RW-06	06/29/94	635.20	637.96	615.00	590.00	18.04	0.97	19.01	15.50	619.69	Yes	
RW-06	07/21/94	635.20	637.96	615.00	590.00	18.96	1.35	20.31	16.50	618.68	Yes	
RW-06	08/30/94	635.20	637.96	615.00	590.00	19.57	1.15	20.72	17.07	618.11	Yes	
RW-06	10/25/94	635.20	637.96	615.00	590.00	18.45	1.53	19.98	16.04	619.14	Yes	
RW-06	11/02/94	635.20	637.96	615.00	590.00	18.35	1.65	20.00	15.96	619.21	Yes	

Table 3
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RW-06	02/01/95	635.20	637.96	615.00	590.00	20.10	0.48	20.58	17.45	617.74	Yes	
RW-06	04/04/95	635.20	637.96	615.00	590.00	20.44	2.16	22.60	18.17	617.00	Yes	
RW-06	07/12/95	635.20	637.96	615.00	590.00	19.73	0.02	19.75	16.97	618.23	Yes	
RW-06	11/13/95	635.20	637.96	615.00	590.00	18.54	0.02	18.56	15.78	619.42	Yes	
RW-06	03/13/96	635.20	637.96	615.00	590.00	19.85	2.30	22.15	17.61	617.56	Yes	
RW-06	05/28/96	635.20	637.96	615.00	590.00	18.45	0.03	18.48	15.70	619.50	Yes	
RW-06	10/08/96	635.20	637.96	615.00	590.00	17.60	0.02	17.62	14.84	620.36	Yes	
RW-06	04/29/97	635.20	637.96	615.00	590.00	NP	0.00	16.62	13.86	621.34	Yes	
RW-06	06/10/97	635.20	637.96	615.00	590.00	NP	0.00	18.00	15.24	619.96	Yes	
RW-06	03/02/99	635.20	637.96	615.00	590.00	20.38	2.16	22.54	18.11	617.06	Yes	
RW-06	10/07/99	635.20	637.96	615.00	590.00	17.16	1.33	18.49	14.70	620.48	Yes	
RW-06	11/09/99	635.20	637.96	615.00	590.00	18.23	1.69	19.92	15.85	619.32	Yes	bailed 2 gal. FP
RW-06	12/21/99	635.20	637.96	615.00	590.00	18.76	0.12	18.88	16.03	619.17	Yes	
RW-06	01/27/00	635.20	637.96	615.00	590.00	19.95	0.12	20.07	17.22	617.98	Yes	
RW-06	02/24/00	635.20	637.96	615.00	590.00	19.87	1.65	21.52	17.48	617.69	Yes	bailed 2 gal. FP
RW-06	03/31/00	635.20	637.96	615.00	590.00	19.71	2.22	21.93	17.45	617.72	Yes	installed pump from MW-2
RW-06	04/20/00	635.20	637.96	615.00	590.00	18.92	2.96	21.88	16.83	618.33	Yes	bailed 4 gal. FP
RW-06	04/26/00	635.20	637.96	615.00	590.00	19.50	1.47	20.97	17.07	618.11	Yes	
RW-06	05/31/00	635.20	637.96	615.00	590.00	19.65	1.38	21.03	17.20	617.98	Yes	installed skimmer
RW-06	06/20/00	635.20	637.96	615.00	590.00	19.66	0.02	19.68	16.90	618.30	Yes	Skimmer operating
RW-06	07/26/00	635.20	637.96	615.00	590.00	19.86	0.02	19.88	17.10	618.10	Yes	Skimmer operating
RW-06	08/18/00	635.20	637.96	615.00	590.00	19.26	2.14	21.40	16.98	618.19	Yes	bailed 1 gal. FP-installed skimmer
RW-06	09/27/00	635.20	637.96	615.00	590.00	20.42	1.29	21.71	17.95	617.23	Yes	skimmer down-bailed 1.25 gal. FP
RW-06	10/11/00	635.20	637.96	615.00	590.00	20.11	1.88	21.99	17.77	617.40	Yes	skimmer down-bailed 3.75 gal. FP
RW-06	11/17/00	635.20	637.96	615.00	590.00	19.69	2.83	22.52	17.57	617.59	Yes	skimmer down-bailed 6 gal. FP
RW-06	12/12/00	635.20	637.96	615.00	590.00	19.94	1.59	21.53	17.54	617.64	Yes	skimmer down-bailed 3 gal. FP
RW-06	01/18/01	635.20	637.96	615.00	590.00	20.23	1.75	21.98	17.87	617.31	Yes	skimmer down-bailed 4 gal. FP
RW-06	04/24/01	635.20	637.96	615.00	590.00	20.21	3.01	23.22	18.13	617.03	Yes	product abated using vactruck
RW-06	05/23/01	635.20	637.96	615.00	590.00	19.22	1.30	20.52	16.75	618.43	Yes	skimmer down/no product bailed
RW-06	06/19/01	635.20	637.96	615.00	590.00	19.45	0.72	20.17	16.85	618.34	Yes	
RW-06	07/26/01	635.20	637.96	615.00	590.00	20.22	0.99	21.21	17.68	617.50	Yes	
RW-06	08/31/01	635.20	637.96	615.00	590.00	20.41	0.01	20.42	17.65	617.55	Yes	
RW-06	09/26/01	635.20	637.96	615.00	590.00	20.41	0.24	20.65	17.70	617.49	Yes	
RW-06	10/24/01	635.20	637.96	615.00	590.00	20.00	1.45	21.45	17.57	617.61	Yes	
RW-06	12/20/01	635.20	637.96	615.00	590.00	20.58	1.84	22.42	18.24	616.94	Yes	
RW-06	01/22/02	635.20	637.96	615.00	590.00	20.53	1.88	22.41	18.19	616.98	Yes	
RW-06	02/26/02	635.20	637.96	615.00	590.00	21.22	0.89	22.11	18.66	616.53	Yes	
RW-06	03/20/02	635.20	637.96	615.00	590.00	21.60	0.14	21.74	18.87	616.33	Yes	
RW-06	04/24/02	635.20	637.96	615.00	590.00	20.32	2.54	22.86	18.13	617.03	Yes	
RW-06	05/15/02	635.20	637.96	615.00	590.00	20.04	2.29	22.33	17.80	617.37	Yes	

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Former Amoco Terminal
Superior, Wisconsin

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RW-06	06/27/02	635.20	637.96	615.00	590.00	20.44	1.53	21.97	18.03	617.15	Yes	
RW-06	07/25/02	635.20	637.96	615.00	590.00	20.57	0.04	20.61	17.82	617.38	Yes	
RW-06	08/20/02	635.20	637.96	615.00	590.00	20.73	0.15	20.88	18.00	617.19	Yes	
RW-06	09/30/02	635.20	637.96	615.00	590.00	NP	0.00	20.03	17.27	617.93	Yes	
RW-06	11/05/02	635.20	637.96	615.00	590.00	19.89	0.02	19.91	17.13	618.07	Yes	
RW-06	12/23/02	635.20	637.96	615.00	590.00	20.74	0.02	20.76	17.98	617.22	Yes	
RW-06	01/28/03	635.20	637.96	615.00	590.00	21.11	0.11	21.22	18.37	616.82	Yes	
RW-06	02/19/03	635.20	637.96	615.00	590.00	21.24	0.31	21.55	18.55	616.65	Yes	
RW-06	03/13/03	635.20	637.96	615.00	590.00	21.27	1.38	22.65	18.82	616.36	Yes	
RW-06	04/17/03	635.20	637.96	615.00	590.00	21.20	2.52	23.72	19.01	616.16	Yes	
RW-06	04/25/03	635.20	637.96	615.00	590.00	21.42	2.64	24.06	19.26	615.91	Yes	
RW-06	05/15/03	635.20	637.96	615.00	590.00	21.44	2.97	24.41	19.35	615.81	Yes	
RW-06	06/10/03	635.20	637.96	615.00	590.00	21.19	2.06	23.25	18.90	616.28	Yes	
RW-06	07/31/03	635.20	637.96	615.00	590.00	20.90	1.95	22.85	18.58	616.59	Yes	
RW-06	10/23/03	635.20	637.96	615.00	590.00	21.14	1.67	22.81	18.76	616.42	Yes	
RW-06	12/03/03	635.20	637.96	615.00	590.00	21.36	2.92	24.28	19.26	615.90	Yes	
RW-06	04/19/04	636.09	638.10	615.00	590.00	21.94	2.35	24.29	20.46	615.60	Yes	
RW-06	07/28/04	636.09	638.10	615.00	590.00	21.02	2.10	23.12	19.48	616.58	Yes	
RW-06	11/15/04	636.09	638.10	615.00	590.00	20.14	1.80	21.94	18.54	617.53	Yes	
RW-06	04/18/05	636.09	638.10	615.00	590.00	20.25	2.67	22.92	18.84	617.21	Yes	
RW-06	10/11/05	636.09	638.10	615.00	590.00	20.00	1.85	21.85	18.41	617.66	Yes	
RW-06	05/23/06	636.09	638.10	615.00	590.00	19.30	1.39	20.69	17.60	618.47	Yes	
RW-06	10/16/06	636.09	638.10	615.00	590.00	20.23	2.15	22.38	18.71	617.35	Yes	
RW-06	04/23/07	636.09	638.10	615.00	590.00	21.03	2.85	23.88	19.66	616.39	Yes	
RW-06	09/25/07	636.09	638.10	615.00	590.00	20.98	2.72	23.70	19.58	616.47	Yes	
RW-06	05/01/08	636.09	638.10	615.00	590.00	19.70	2.13	21.83	18.17	617.89	Yes	
RW-06	10/20/08	636.09	638.10	615.00	590.00	18.36	1.26	19.62	16.63	619.44	Yes	
RW-06	04/18/09	636.09	638.10	615.00	590.00	19.43	1.43	20.86	17.74	618.33	Yes	
RW-06	04/28/10	636.09	638.10	615.00	590.00	19.99	1.80	21.79	18.39	617.68	Yes	
RW-06	10/25/10	636.09	638.10	615.00	590.00	17.95	1.11	19.06	16.19	619.88	Yes	
RW-06	04/25/11	636.09	638.10	615.00	590.00	19.24	0.99	20.23	17.45	618.62	Yes	
RW-06	09/14/11	636.09	638.10	615.00	590.00	18.48	0.97	19.45	16.69	619.39	Yes	
RW-06	09/23/11	636.09	638.10	615.00	590.00	18.69	0.95	19.64	16.89	619.18	Yes	
RW-06	09/29/11	636.09	638.10	615.00	590.00	18.55	0.98	19.53	16.76	619.31	Yes	
RW-06	10/07/11	636.09	638.10	615.00	590.00	18.68	0.97	19.65	16.89	619.19	Yes	
RW-06	10/11/11	636.09	638.10	615.00	590.00	19.03	0.96	19.99	17.24	618.84	Yes	
RW-06	10/21/11	636.09	638.10	615.00	590.00	19.14	0.98	20.12	17.35	618.72	Yes	
RW-06	10/27/11	636.09	638.10	615.00	590.00	19.24	0.98	20.22	17.45	618.62	Yes	
RW-06	11/04/11	636.09	638.10	615.00	590.00	19.49	0.96	20.45	17.70	618.38	Yes	
RW-06	11/09/11	636.09	638.10	615.00	590.00	19.38	0.92	20.30	17.58	618.50	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-06	11/18/11	636.09	638.10	615.00	590.00	19.46	0.96	20.42	17.67	618.41	Yes	
RW-06	11/22/11	636.09	638.10	615.00	590.00	19.62	0.99	20.61	17.83	618.24	Yes	
RW-06	12/01/11	636.09	638.10	615.00	590.00	20.09	0.98	21.07	18.30	617.77	Yes	
RW-06	01/04/12	636.09	638.10	615.00	590.00	20.01	1.82	21.83	18.41	617.65	Yes	
RW-06	02/16/12	636.09	638.10	615.00	590.00	20.46	2.32	22.78	18.97	617.08	Yes	
RW-06	03/13/12	636.09	638.10	615.00	590.00	21.74	1.44	23.18	20.06	616.01	Yes	
RW-06	04/05/12	636.09	638.10	615.00	590.00	20.73	2.48	23.21	19.28	616.78	Yes	Spill Buddy Before Reading
RW-06	04/05/12	636.09	638.10	615.00	590.00	21.76	1.19	22.95	20.02	616.05	Yes	Spill Buddy After Reading
RW-06	04/16/12	636.09	638.10	615.00	590.00	20.70	2.18	22.88	19.18	616.88	Yes	
RW-06	05/18/12	636.09	638.10	615.00	590.00	20.75	4.48	25.23	19.75	616.28	Yes	
RW-06	06/26/12	636.09	638.10	615.00	590.00	18.55	1.10	19.65	16.79	619.29	Yes	
RW-06	07/11/12	636.09	638.10	615.00	590.00	18.79	1.13	19.92	17.04	619.04	Yes	Spill Buddy Before Reading
RW-06	07/11/12	636.09	638.10	615.00	590.00	19.75	0.02	19.77	17.74	618.35	Yes	Spill Buddy After Reading
RW-06	07/24/12	636.09	638.10	615.00	590.00	19.29	0.02	19.31	17.28	618.81	Yes	
RW-06	08/09/12	636.09	638.10	615.00	590.00	19.51	0.03	19.54	17.51	618.58	Yes	
RW-06	08/17/12	636.09	638.10	615.00	590.00	19.68	0.03	19.71	17.68	618.41	Yes	
RW-06	09/17/12	636.09	638.10	615.00	590.00	20.07	0.02	20.09	18.06	618.03	Yes	
RW-06	09/30/12	636.09	638.10	615.00	590.00	20.30	0.04	20.34	18.30	617.79	Yes	
RW-06	11/21/12	636.09	638.10	615.00	590.00	20.20	1.99	22.19	18.64	617.42	Yes	
RW-06	12/17/12	636.09	638.10	615.00	590.00	20.45	2.09	22.54	18.91	617.15	Yes	
RW-06	03/25/13	636.09	638.10	615.00	590.00	21.08	2.90	23.98	19.73	616.32	Yes	
RW-06	05/05/13	636.09	638.10	615.00	590.00	20.83	2.74	23.57	19.44	616.61	Yes	
RW-06	05/16/13	636.09	638.10	615.00	590.00	20.90	2.33	23.23	19.42	616.64	Yes	Spill Buddy Before Reading
RW-06	05/16/13	636.09	638.10	615.00	590.00	22.92	0.05	22.97	20.92	615.17	Yes	Spill Buddy After Reading
RW-06	10/03/13	636.09	638.10	615.00	590.00	20.60	1.58	22.18	18.95	617.12	Yes	
RW-06	05/22/14	636.09	638.10	615.00	590.00	19.29	1.64	20.93	17.65	618.42	Yes	
RW-06	10/31/14	636.09	638.10	615.00	590.00	18.71	1.58	20.29	17.06	619.01	Yes	
RW-06	05/06/15	636.09	638.10	615.00	590.00	20.21	2.01	22.22	18.65	617.41	Yes	
RW-06	10/05/15	636.09	638.10	615.00	590.00	18.38	1.50	19.88	16.71	619.36	Yes	
RW-06	10/03/16	636.09	638.10	615.00	590.00	17.35	1.35	18.70	15.64	620.43	Yes	
RW-06	06/14/17	636.09	638.10	615.00	590.00	16.40	1.26	17.66	14.67	621.40	Yes	
RW-06	06/21/17	636.09	638.10	615.00	590.00	16.81	1.25	18.06	15.08	620.99	Yes	
RW-06	06/22/17	636.09	638.10	615.00	590.00	16.77	0.64	17.41	14.90	621.18	Yes	
RW-06	06/23/17	636.09	638.10	615.00	590.00	16.85	0.66	17.51	14.99	621.09	Yes	
RW-06	10/26/17	636.09	638.10	615.00	590.00	14.85	0.64	15.49	12.98	623.10	Yes	
RW-07	05/04/90	630.70	633.42	611.74	586.74	NP	0.00	18.23	15.51	615.19	Yes	
RW-07	06/01/90	630.70	633.42	611.74	586.74	NP	0.00	18.07	15.35	615.35	Yes	
RW-07	06/19/90	630.70	633.42	611.74	586.74	17.81	0.15	17.96	15.12	615.58	Yes	
RW-07	06/27/90	630.70	633.42	611.74	586.74	NP	0.00	17.97	15.25	615.45	Yes	

Table 3
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RW-07	07/05/90	630.70	633.42	611.74	586.74	18.15	0.01	18.16	15.43	615.27	Yes	
RW-07	07/13/90	630.70	633.42	611.74	586.74	NP	0.00	18.28	15.56	615.14	Yes	
RW-07	07/17/90	630.70	633.42	611.74	586.74	18.15	0.01	18.16	15.43	615.27	Yes	
RW-07	07/25/90	630.70	633.42	611.74	586.74	NP	0.00	18.18	15.46	615.24	Yes	
RW-07	08/09/90	630.70	633.42	611.74	586.74	NP	0.00	17.80	15.08	615.62	Yes	
RW-07	01/04/91	630.70	633.42	611.74	586.74	NP	0.00	17.54	14.82	615.88	Yes	
RW-07	01/30/91	630.70	633.42	611.74	586.74	NP	0.00	18.25	15.53	615.17	Yes	
RW-07	04/24/91	630.70	633.42	611.74	586.74	NP	0.00	17.85	15.13	615.57	Yes	
RW-07	07/09/91	630.70	633.42	611.74	586.74	NP	0.00	16.40	13.68	617.02	Yes	
RW-07	10/08/91	630.70	633.42	611.74	586.74	NP	0.00	15.14	12.42	618.28	Yes	
RW-07	01/07/92	630.70	633.42	611.74	586.74	NP	0.00	15.18	12.46	618.24	Yes	
RW-07	10/14/92	630.70	633.42	611.74	586.74	14.91	0.01	14.92	12.19	618.51	Yes	
RW-07	06/25/93	630.70	633.42	611.74	586.74	NP	0.00	13.74	11.02	619.68	Yes	
RW-07	10/28/93	630.70	633.42	611.74	586.74	NP	0.00	15.44	12.72	617.98	Yes	
RW-07	01/29/94	630.70	633.42	611.74	586.74	NP	0.00	15.87	13.15	617.55	Yes	
RW-07	04/27/94	630.70	633.42	611.74	586.74	NP	0.00	16.09	13.37	617.33	Yes	
RW-07	07/21/94	630.70	633.42	611.74	586.74	NP	0.00	15.02	12.30	618.40	Yes	
RW-07	10/25/94	630.70	633.42	611.74	586.74	NP	0.00	15.32	12.60	618.10	Yes	
RW-07	02/01/95	630.70	633.42	611.74	586.74	NP	0.00	16.50	13.78	616.92	Yes	
RW-07	04/04/95	630.70	633.42	611.74	586.74	NP	0.00	16.75	14.03	616.67	Yes	
RW-07	07/12/95	630.70	633.42	611.74	586.74	NP	0.00	16.09	13.37	617.33	Yes	
RW-07	11/13/95	630.70	633.42	611.74	586.74	NP	0.00	15.19	12.47	618.23	Yes	
RW-07	11/03/98	630.70	633.42	611.74	586.74	NP	0.00	16.78	14.06	616.64	Yes	
RW-07	03/02/99	630.70	633.42	611.74	586.74	NP	0.00	16.93	14.21	616.49	Yes	
RW-07	11/09/99	630.70	633.42	611.74	586.74	NP	0.00	14.50	11.78	618.92	Yes	
RW-07	12/21/99	630.70	633.42	611.74	586.74	NP	0.00	14.15	11.43	619.27	Yes	
RW-07	01/27/00	630.70	633.42	611.74	586.74	NP	0.00	15.97	13.25	617.45	Yes	
RW-07	02/24/00	630.70	633.42	611.74	586.74	NP	0.00	16.21	13.49	617.21	Yes	
RW-07	03/31/00	630.70	633.42	611.74	586.74	NP	0.00	16.28	13.56	617.14	Yes	
RW-07	04/20/00	630.70	633.42	611.74	586.74	NP	0.00	16.20	13.48	617.22	Yes	
RW-07	04/26/00	630.70	633.42	611.74	586.74	NP	0.00	16.28	13.56	617.14	Yes	
RW-07	05/31/00	630.70	633.42	611.74	586.74	NP	0.00	16.32	13.60	617.10	Yes	
RW-07	06/29/00	630.70	633.42	611.74	586.74	NP	0.00	16.10	13.38	617.32	Yes	
RW-07	07/26/00	630.70	633.42	611.74	586.74	NP	0.00	16.10	13.38	617.32	Yes	
RW-07	08/18/00	630.70	633.42	611.74	586.74	NP	0.00	16.42	13.70	617.00	Yes	
RW-07	09/27/00	630.70	633.42	611.74	586.74	NP	0.00	16.62	13.90	616.80	Yes	
RW-07	10/11/00	630.70	633.42	611.74	586.74	NP	0.00	16.65	13.93	616.77	Yes	
RW-07	11/17/00	630.70	633.42	611.74	586.74	NP	0.00	16.58	13.86	616.84	Yes	
RW-07	12/12/00	630.70	633.42	611.74	586.74	NP	0.00	16.53	13.81	616.89	Yes	
RW-07	01/18/01	630.70	633.42	611.74	586.74	16.82	0.02	16.84	14.10	616.60	Yes	

Table 3
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RW-07	05/23/01	630.70	633.42	611.74	586.74	NP	0.00	15.95	13.23	617.47	Yes	
RW-07	06/19/01	630.70	633.42	611.74	586.74	NP	0.00	15.88	13.16	617.54	Yes	
RW-07	07/26/01	630.70	633.42	611.74	586.74	NP	0.00	16.19	13.47	617.23	Yes	
RW-07	08/31/01	630.70	633.42	611.74	586.74	NP	0.00	16.57	13.85	616.85	Yes	
RW-07	09/26/01	630.70	633.42	611.74	586.74	NP	0.00	16.64	13.92	616.78	Yes	
RW-07	12/20/01	630.70	633.42	611.74	586.74	NP	0.00	17.16	14.44	616.26	Yes	
RW-07	01/22/02	630.70	633.42	611.74	586.74	NP	0.00	17.13	14.41	616.29	Yes	
RW-07	02/26/02	630.70	633.42	611.74	586.74	NP	0.00	17.39	14.67	616.03	Yes	
RW-07	03/20/02	630.70	633.42	611.74	586.74	NP	0.00	17.55	14.83	615.87	Yes	
RW-07	04/24/02	630.70	633.42	611.74	586.74	NP	0.00	17.38	14.66	616.04	Yes	
RW-07	05/15/02	630.70	633.42	611.74	586.74	NP	0.00	17.05	14.33	616.37	Yes	
RW-07	06/27/02	630.70	633.42	611.74	586.74	NP	0.00	17.18	14.46	616.24	Yes	
RW-07	07/25/02	630.70	633.42	611.74	586.74	NP	0.00	17.08	14.36	616.34	Yes	
RW-07	08/20/02	630.70	633.42	611.74	586.74	NP	0.00	17.03	14.31	616.39	Yes	
RW-07	09/30/02	630.70	633.42	611.74	586.74	NP	0.00	17.03	14.31	616.39	Yes	
RW-07	11/05/02	630.70	633.42	611.74	586.74	NP	0.00	16.59	13.87	616.83	Yes	
RW-07	12/23/02	630.70	633.42	611.74	586.74	NP	0.00	16.88	14.16	616.54	Yes	
RW-07	01/28/03	630.70	633.42	611.74	586.74	NP	0.00	17.38	14.66	616.04	Yes	
RW-07	02/19/03	630.70	633.42	611.74	586.74	NP	0.00	17.49	14.77	615.93	Yes	
RW-07	04/17/03	630.70	633.42	611.74	586.74	NP	0.00	17.77	15.05	615.65	Yes	
RW-07	10/23/03	630.70	633.42	611.74	586.74	NP	0.00	17.91	15.19	615.51	Yes	
RW-07	12/03/03	630.70	633.42	611.74	586.74	NP	0.00	18.03	15.31	615.39	Yes	
RW-07	04/19/04	631.55	633.20	611.74	586.74	NP	0.00	18.57	16.92	614.63	Yes	
RW-07	07/28/04	631.55	633.20	611.74	586.74	NP	0.00	17.78	16.13	615.42	Yes	
RW-07	11/16/04	631.55	633.20	611.74	586.74	NP	0.00	18.28	16.63	614.92	Yes	
RW-07	04/18/05	631.55	633.20	611.74	586.74	NP	0.00	18.12	16.47	615.08	Yes	
RW-07	10/11/05	631.55	633.20	611.74	586.74	NP	0.00	16.70	15.05	616.50	Yes	
RW-07	05/23/06	631.55	633.20	611.74	586.74	NP	0.00	15.60	13.95	617.60	Yes	
RW-07	10/16/06	631.55	633.20	611.74	586.74	NP	0.00	16.06	14.41	617.14	Yes	
RW-07	04/23/07	631.55	633.20	611.74	586.74	NP	0.00	16.92	15.27	616.28	Yes	No sample - 2" of water around well
RW-07	06/26/07						Abandoned					
EW-01	09/14/11	635.21	634.84	620.71	600.71	NP	0.00	14.61	14.97	620.23	No	TFRT System Down on 8/31/11 for well recovery test
EW-01	09/23/11	635.21	634.84	620.71	600.71	NP	0.00	14.45	14.81	620.39	No	
EW-01	09/29/11	635.21	634.84	620.71	600.71	NP	0.00	14.78	15.14	620.06	No	
EW-01	10/07/11	635.21	634.84	620.71	600.71	NP	0.00	14.67	15.03	620.17	No	
EW-01	10/13/11	635.21	634.84	620.71	600.71	NP	0.00	14.75	15.11	620.09	No	
EW-01	10/21/11	635.21	634.84	620.71	600.71	NP	0.00	14.79	15.15	620.05	No	
EW-01	10/27/11	635.21	634.84	620.71	600.71	NP	0.00	15.11	15.47	619.73	No	
EW-01	11/01/11	635.21	634.84	620.71	600.71	NP	0.00	14.89	15.25	619.95	No	Conducted 2011 annual well pump maintenace

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EW-01	11/10/11	635.21	634.84	620.71	600.71	NP	0.00	15.34	15.70	619.50	No	
EW-01	11/18/11	635.21	634.84	620.71	600.71	NP	0.00	15.52	15.88	619.32	No	
EW-01	11/22/11	635.21	634.84	620.71	600.71	NP	0.00	15.75	16.11	619.09	No	
EW-01	11/30/11	635.21	634.84	620.71	600.71	NP	0.00	15.85	16.21	618.99	No	Restarted TFRT system on 11/30/11 with only EW 4 & EW 5
EW-01	09/18/12	635.21	634.84	620.71	600.71	NP	0.00	17.29	17.65	617.55	No	
EW-01	11/21/12	635.21	634.84	620.71	600.71	NP	0.00	18.02	18.38	616.82	No	
EW-01	05/05/13	635.21	634.84	620.71	600.71	NP	0.00	18.52	18.88	616.32	No	
EW-01	10/03/13	635.21	634.84	620.71	600.71	NP	0.00	17.91	18.27	616.93	No	
EW-03	09/14/11	635.87	635.08	620.87	600.87	NP	0.00	15.71	16.51	619.37	No	TFRT System Down on 8/31/11 for well recovery test
EW-03	09/23/11	635.87	635.08	620.87	600.87	NP	0.00	15.94	16.74	619.14	No	
EW-03	09/29/11	635.87	635.08	620.87	600.87	NP	0.00	15.76	16.56	619.32	No	
EW-03	10/07/11	635.87	635.08	620.87	600.87	NP	0.00	16.02	16.82	619.06	No	
EW-03	10/13/11	635.87	635.08	620.87	600.87	NP	0.00	13.46	14.26	621.62	Yes	
EW-03	10/21/11	635.87	635.08	620.87	600.87	NP	0.00	16.39	17.19	618.69	No	
EW-03	10/27/11	635.87	635.08	620.87	600.87	NP	0.00	16.48	17.28	618.60	No	
EW-03	11/02/11	635.87	635.08	620.87	600.87	NP	0.00	16.81	17.61	618.27	No	Conducted 2011 annual well pump maintenace
EW-03	11/10/11	635.87	635.08	620.87	600.87	NP	0.00	16.84	17.64	618.24	No	
EW-03	11/18/11	635.87	635.08	620.87	600.87	NP	0.00	16.92	17.72	618.16	No	
EW-03	11/22/11	635.87	635.08	620.87	600.87	NP	0.00	17.02	17.82	618.06	No	
EW-03	12/01/11	635.87	635.08	620.87	600.87	NP	0.00	17.00	17.80	618.08	No	Restarted TFRT system on 11/30/11 with only EW 4 & EW 5
EW-03	09/18/12	635.87	635.08	620.87	600.87	NP	0.00	17.28	18.08	617.80	No	
EW-03	11/21/12	635.87	635.08	620.87	600.87	NP	0.00	17.85	18.65	617.23	No	
EW-03	05/05/13	635.87	635.08	620.87	600.87	NP	0.00	18.41	19.21	616.67	No	
EW-03	10/03/13	635.87	635.08	620.87	600.87	NP	0.00	17.89	18.69	617.19	No	
EW-04	09/14/11	637.11	636.90	622.11	602.11	16.08	3.52	19.60	17.09	620.02	No	TFRT System Down on 8/31/11 for well recovery test
EW-04	09/23/11	637.11	636.90	622.11	602.11	15.63	6.26	21.89	17.26	619.85	No	
EW-04	09/29/11	637.11	636.90	622.11	602.11	16.03	7.15	23.18	17.86	619.25	No	
EW-04	10/07/11	637.11	636.90	622.11	602.11	15.74	8.46	24.20	17.86	619.25	No	
EW-04	10/13/11	637.11	636.90	622.11	602.11	15.88	8.85	24.73	18.09	619.02	No	
EW-04	10/21/11	637.11	636.90	622.11	602.11	15.76	9.51	25.27	18.12	618.99	No	
EW-04	10/27/11	637.11	636.90	622.11	602.11	16.09	9.80	25.89	18.52	618.59	No	
EW-04	11/02/11	637.11	636.90	622.11	602.11	16.15	10.00	26.15	18.62	618.49	No	Conducted 2011 annual well pump maintenace
EW-04	11/10/11	637.11	636.90	622.11	602.11	16.19	10.27	26.46	18.72	618.39	No	
EW-04	11/18/11	637.11	636.90	622.11	602.11	16.22	10.77	26.99	18.87	618.24	No	
EW-04	11/22/11	637.11	636.90	622.11	602.11	16.38	11.08	27.46	19.10	618.01	No	
EW-04	11/30/11	637.11	636.90	622.11	602.11	17.73	10.99	28.72	20.43	616.68	No	Restarted TFRT system on 11/30/11 with only EW 4 & EW 5
EW-04	09/18/12	637.11	636.90	622.11	602.11	18.66	6.24	24.90	20.28	616.83	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-04	11/21/12	637.11	636.90	622.11	602.11	19.42	6.25	25.67	21.04	616.06	No	
EW-04	03/25/13	637.11	636.90	622.11	602.11	20.58	6.18	26.76	22.19	614.92	No	
EW-04	05/05/13	637.11	636.90	622.11	602.11	20.85	6.13	26.98	22.45	614.66	No	
EW-04	05/16/13	637.11	636.90	622.11	602.11	19.92	5.80	25.72	21.44	615.67	No	Spill Buddy Before Reading
EW-04	05/16/13	637.11	636.90	622.11	602.11	25.33	0.31	25.64	25.61	611.50	No	Spill Buddy After Reading
EW-04	10/03/13	637.11	636.90	622.11	602.11	20.00	1.11	21.11	20.46	616.65	No	
EW-05	09/14/11	635.25	634.79	620.25	600.25	16.37	0.03	16.40	16.84	618.41	No	TFRT System Down on 8/31/11 for well recovery test
EW-05	09/23/11	635.25	634.79	620.25	600.25	16.47	0.06	16.53	16.95	618.31	No	
EW-05	09/29/11	635.25	634.79	620.25	600.25	16.43	0.10	16.53	16.92	618.34	No	
EW-05	10/07/11	635.25	634.79	620.25	600.25	16.44	0.08	16.52	16.92	618.33	No	
EW-05	10/13/11	635.25	634.79	620.25	600.25	16.48	0.08	16.56	16.96	618.29	No	
EW-05	10/21/11	635.25	634.79	620.25	600.25	16.88	0.10	16.98	17.37	617.89	No	
EW-05	10/27/11	635.25	634.79	620.25	600.25	17.08	0.12	17.20	17.57	617.68	No	
EW-05	11/01/11	635.25	634.79	620.25	600.25	17.26	0.16	17.42	17.76	617.49	No	Conducted 2011 annual well pump maintenace
EW-05	11/10/11	635.25	634.79	620.25	600.25	17.85	0.25	18.10	18.37	616.88	No	
EW-05	11/18/11	635.25	634.79	620.25	600.25	17.85	0.25	18.10	18.37	616.88	No	
EW-05	11/22/11	635.25	634.79	620.25	600.25	17.97	0.27	18.24	18.49	616.76	No	
EW-05	11/30/11	635.25	634.79	620.25	600.25	17.97	0.27	18.24	18.49	616.76	No	
EW-05	09/18/12	635.25	634.79	620.25	600.25	NP	0.00	17.59	18.05	617.20	No	with only EW 4 & EW 5
EW-05	11/21/12	635.25	634.79	620.25	600.25	18.30	0.02	18.32	18.77	616.48	No	
EW-05	05/05/13	635.25	634.79	620.25	600.25	17.20	0.48	17.68	17.77	617.48	No	
EW-05	10/03/13	635.25	634.79	620.25	600.25	18.08	0.03	18.11	18.55	616.70	No	
EW-05	05/22/14	635.25	634.79	620.25	600.25	16.47	0.26	16.73	16.99	618.26	No	
EW-05	10/31/14	635.25	634.79	620.25	600.25	16.37	0.22	16.59	16.88	618.37	No	
EW-05	05/06/15	635.25	634.79	620.25	600.25	NP	0.00	17.16	17.62	617.63	No	
EW-05	10/05/15	635.25	634.79	620.25	600.25	16.00	0.20	16.20	16.51	618.74	No	
EW-06	07/25/11	636.90	639.00	621.90	601.90	NP	0.00	19.80	17.70	619.20	No	
EW-06	08/18/11	636.90	639.00	621.90	601.90	NP	0.00	19.28	17.18	619.72	No	
EW-06	08/25/11	636.90	639.00	621.90	601.90	NP	0.00	19.78	17.68	619.22	No	
EW-06	09/01/11	636.90	639.00	621.90	601.90	NP	0.00	19.77	17.67	619.23	No	
EW-06	09/08/11	636.90	639.00	621.90	601.90	NP	0.00	20.27	18.17	618.73	No	
EW-06	09/14/11	636.90	639.00	621.90	601.90	NP	0.00	20.65	18.55	618.35	No	
EW-06	09/23/11	636.90	639.00	621.90	601.90	NP	0.00	20.77	18.67	618.23	No	
EW-06	09/29/11	636.90	639.00	621.90	601.90	NP	0.00	20.74	18.64	618.26	No	
EW-06	10/07/11	636.90	639.00	621.90	601.90	NP	0.00	20.77	18.67	618.23	No	
EW-06	10/11/11	636.90	639.00	621.90	601.90	NP	0.00	20.94	18.84	618.06	No	
EW-06	10/21/11	636.90	639.00	621.90	601.90	NP	0.00	21.14	19.04	617.86	No	
EW-06	10/27/11	636.90	639.00	621.90	601.90	NP	0.00	20.56	18.46	618.44	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-06	11/04/11	636.90	639.00	621.90	601.90	NP	0.00	21.47	19.37	617.53	No	
EW-06	11/09/11	636.90	639.00	621.90	601.90	NP	0.00	21.35	19.25	617.65	No	
EW-06	11/18/11	636.90	639.00	621.90	601.90	NP	0.00	21.51	19.41	617.49	No	
EW-06	11/22/11	636.90	639.00	621.90	601.90	NP	0.00	21.63	19.53	617.37	No	
EW-06	12/01/11	636.90	639.00	621.90	601.90	NP	0.00	22.04	19.94	616.96	No	
EW-06	01/04/12	636.90	639.00	621.90	601.90	NP	0.00	22.34	20.24	616.66	No	
EW-06	02/16/12	636.90	639.00	621.90	601.90	NP	0.00	22.85	20.75	616.15	No	
EW-06	03/13/12	636.90	639.00	621.90	601.90	NP	0.00	23.04	20.94	615.96	No	
EW-06	04/16/12	636.90	639.00	621.90	601.90	NP	0.00	23.39	21.29	615.61	No	
EW-06	05/18/12	636.90	639.00	621.90	601.90	22.36	0.45	22.81	20.36	616.54	No	
EW-06	06/26/12	636.90	639.00	621.90	601.90	20.78	0.26	21.04	18.74	618.16	No	
EW-06	07/12/12	636.90	639.00	621.90	601.90	20.93	0.26	21.19	18.89	618.01	No	
EW-06	07/24/12	636.90	639.00	621.90	601.90	21.10	0.59	21.69	19.13	617.77	No	
EW-06	08/09/12	636.90	639.00	621.90	601.90	21.22	0.63	21.85	19.26	617.64	No	Spill Buddy Before Reading
EW-06	08/09/12	636.90	639.00	621.90	601.90	21.48	0.13	21.61	19.41	617.49	No	Spill Buddy After Reading
EW-06	08/17/12	636.90	639.00	621.90	601.90	21.39	0.60	21.99	19.43	617.47	No	
EW-06	09/17/12	636.90	639.00	621.90	601.90	21.75	0.97	22.72	19.87	617.03	No	
EW-06	09/18/12	636.90	639.00	621.90	601.90	21.70	0.65	22.35	19.75	617.15	No	Spill Buddy Before Reading
EW-06	09/18/12	636.90	639.00	621.90	601.90	21.99	0.02	22.01	19.89	617.01	No	Spill Buddy After Reading
EW-06	09/20/12	636.90	639.00	621.90	601.90	21.86	0.40	22.26	19.85	617.05	No	
EW-06	09/30/12	636.90	639.00	621.90	601.90	21.98	0.44	22.42	19.98	616.92	No	
EW-06	10/22/12	636.90	639.00	621.90	601.90	22.37	0.58	22.95	20.40	616.50	No	
EW-06	11/21/12	636.90	639.00	621.90	601.90	22.50	0.44	22.94	20.50	616.40	No	
EW-06	12/17/12	636.90	639.00	621.90	601.90	22.72	0.77	23.49	20.79	616.11	No	
EW-06	12/20/12	636.90	639.00	621.90	601.90	22.71	0.78	23.49	20.79	616.11	No	
EW-06	03/25/13	636.90	639.00	621.90	601.90	23.22	2.22	25.44	21.62	615.28	No	
EW-06	04/03/13	636.90	639.00	621.90	601.90	23.21	2.31	25.52	21.63	615.27	No	Spill Buddy Before Reading
EW-06	04/03/13	636.90	639.00	621.90	601.90	23.94	0.05	23.99	21.85	615.05	No	Spill Buddy After Reading
EW-06	05/05/13	636.90	639.00	621.90	601.90	23.31	1.72	25.03	21.60	615.30	No	
EW-06	10/03/13	636.90	639.00	621.90	601.90	22.59	0.89	23.48	20.69	616.21	No	
EW-06	05/22/14	636.90	639.00	621.90	601.90	21.61	0.37	21.98	19.59	617.31	No	
EW-06	10/31/14	636.90	639.00	621.90	601.90	20.66	0.39	21.05	18.65	618.25	No	
EW-06	05/06/15	636.90	639.00	621.90	601.90	22.18	1.84	24.02	20.50	616.40	No	
EW-06	10/05/15	636.90	639.00	621.90	601.90	20.79	0.29	21.08	18.76	618.14	No	
EW-06	05/23/16	636.90	639.00	621.90	601.90	18.09	0.43	18.52	16.09	620.81	No	
EW-06	10/03/16	636.90	639.00	621.90	601.90	19.59	0.03	19.62	17.50	619.40	No	
EW-06	06/29/17	636.90	639.00	621.90	601.90	19.03	0.32	19.35	17.00	619.90	No	
EW-07	07/25/11	635.40	637.20	620.40	600.40	NP	0.00	18.87	17.07	618.33	No	
EW-07	08/18/11	635.40	637.20	620.40	600.40	NP	0.00	18.51	16.71	618.69	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-07	08/25/11	635.40	637.20	620.40	600.40	NP	0.00	18.92	17.12	618.28	No	
EW-07	09/01/11	635.40	637.20	620.40	600.40	NP	0.00	19.04	17.24	618.16	No	
EW-07	09/08/11	635.40	637.20	620.40	600.40	NP	0.00	19.52	17.72	617.68	No	
EW-07	09/14/11	635.40	637.20	620.40	600.40	NP	0.00	19.84	18.04	617.36	No	
EW-07	09/23/11	635.40	637.20	620.40	600.40	NP	0.00	20.04	18.24	617.16	No	
EW-07	09/29/11	635.40	637.20	620.40	600.40	NP	0.00	20.04	18.24	617.16	No	
EW-07	10/07/11	635.40	637.20	620.40	600.40	NP	0.00	20.18	18.38	617.02	No	
EW-07	10/11/11	635.40	637.20	620.40	600.40	NP	0.00	20.31	18.51	616.89	No	
EW-07	10/21/11	635.40	637.20	620.40	600.40	NP	0.00	20.56	18.76	616.64	No	
EW-07	10/27/11	635.40	637.20	620.40	600.40	NP	0.00	20.66	18.86	616.54	No	
EW-07	11/01/11	635.40	637.20	620.40	600.40	NP	0.00	20.85	19.05	616.35	No	
EW-07	11/09/11	635.40	637.20	620.40	600.40	NP	0.00	20.82	19.02	616.38	No	
EW-07	11/18/11	635.40	637.20	620.40	600.40	NP	0.00	20.98	19.18	616.22	No	
EW-07	11/22/11	635.40	637.20	620.40	600.40	NP	0.00	21.11	19.31	616.09	No	
EW-07	12/01/11	635.40	637.20	620.40	600.40	NP	0.00	21.04	19.24	616.16	No	
EW-07	01/04/12	635.40	637.20	620.40	600.40	NP	0.00	21.75	19.95	615.45	No	
EW-07	02/16/12	635.40	637.20	620.40	600.40	NP	0.00	22.26	20.46	614.94	No	
EW-07	03/13/12	635.40	637.20	620.40	600.40	NP	0.00	22.51	20.71	614.69	No	
EW-07	04/16/12	635.40	637.20	620.40	600.40	NP	0.00	22.40	20.60	614.80	No	
EW-07	05/18/12	635.40	637.20	620.40	600.40	NP	0.00	21.45	19.65	615.75	No	
EW-07	06/26/12	635.40	637.20	620.40	600.40	NP	0.00	19.45	17.65	617.75	No	
EW-07	07/24/12	635.40	637.20	620.40	600.40	NP	0.00	20.20	18.40	617.00	No	
EW-07	08/17/12	635.40	637.20	620.40	600.40	NP	0.00	20.48	18.68	616.72	No	
EW-07	09/17/12	635.40	637.20	620.40	600.40	NP	0.00	20.90	19.10	616.30	No	
EW-07	09/20/12	635.40	637.20	620.40	600.40	NP	0.00	20.94	19.14	616.26	No	
EW-07	09/30/12	635.40	637.20	620.40	600.40	NP	0.00	21.07	19.27	616.13	No	
EW-07	10/22/12	635.40	637.20	620.40	600.40	NP	0.00	21.43	19.63	615.77	No	
EW-07	11/21/12	635.40	637.20	620.40	600.40	NP	0.00	21.60	19.80	615.60	No	
EW-07	12/17/12	635.40	637.20	620.40	600.40	NP	0.00	21.84	20.04	615.36	No	
EW-07	12/20/12	635.40	637.20	620.40	600.40	NP	0.00	21.88	20.08	615.32	No	
EW-07	03/25/13	635.40	637.20	620.40	600.40	NP	0.00	22.70	20.90	614.50	No	
EW-07	05/05/13	635.40	637.20	620.40	600.40	NP	0.00	22.01	20.21	615.19	No	
EW-07	10/03/13	635.40	637.20	620.40	600.40	21.00	4.16	25.16	20.14	615.26	No	
EW-07	05/22/14	635.40	637.20	620.40	600.40	19.69	1.17	20.86	18.15	617.25	No	
EW-07	10/31/14	635.40	637.20	620.40	600.40	19.34	1.01	20.35	17.77	617.63	No	
EW-07	05/06/15	635.40	637.20	620.40	600.40	20.83	1.51	22.34	19.37	616.03	No	
EW-07	10/05/15	635.40	637.20	620.40	600.40	19.14	0.78	19.92	17.52	617.88	No	
EW-07	05/23/16	635.40	637.20	620.40	600.40	NP	0.00	17.73	15.93	619.47	No	
EW-07	10/03/16	635.40	637.20	620.40	600.40	18.19	0.65	18.84	16.54	618.86	No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-07	06/29/17	635.40	637.20	620.40	600.40	17.68	0.67	18.35	16.03	619.37	No	
EW-08	07/25/11	635.30	637.26	620.30	600.30	NP	0.00	17.82	15.86	619.44	No	
EW-08	08/18/11	635.30	637.26	620.30	600.30	NP	0.00	17.30	15.34	619.96	No	
EW-08	08/25/11	635.30	637.26	620.30	600.30	NP	0.00	17.73	15.77	619.53	No	
EW-08	09/01/11	635.30	637.26	620.30	600.30	NP	0.00	17.78	15.82	619.48	No	
EW-08	09/08/11	635.30	637.26	620.30	600.30	NP	0.00	18.25	16.29	619.01	No	
EW-08	09/14/11	635.30	637.26	620.30	600.30	NP	0.00	18.61	16.65	618.65	No	
EW-08	09/23/11	635.30	637.26	620.30	600.30	NP	0.00	18.74	16.78	618.52	No	
EW-08	09/29/11	635.30	637.26	620.30	600.30	NP	0.00	18.77	16.81	618.49	No	
EW-08	10/07/11	635.30	637.26	620.30	600.30	NP	0.00	18.78	16.82	618.48	No	
EW-08	10/11/11	635.30	637.26	620.30	600.30	NP	0.00	18.95	16.99	618.31	No	
EW-08	10/21/11	635.30	637.26	620.30	600.30	NP	0.00	19.16	17.20	618.10	No	
EW-08	10/27/11	635.30	637.26	620.30	600.30	NP	0.00	19.30	17.34	617.96	No	
EW-08	11/04/11	635.30	637.26	620.30	600.30	NP	0.00	19.46	17.50	617.80	No	
EW-08	11/09/11	635.30	637.26	620.30	600.30	NP	0.00	19.39	17.43	617.87	No	
EW-08	11/18/11	635.30	637.26	620.30	600.30	NP	0.00	19.53	17.57	617.73	No	
EW-08	11/22/11	635.30	637.26	620.30	600.30	NP	0.00	19.63	17.67	617.63	No	
EW-08	12/01/11	635.30	637.26	620.30	600.30	NP	0.00	19.99	18.03	617.27	No	
EW-08	01/04/12	635.30	637.26	620.30	600.30	NP	0.00	20.25	18.29	617.01	No	
EW-08	02/16/12	635.30	637.26	620.30	600.30	NP	0.00	20.73	18.77	616.53	No	
EW-08	03/13/12	635.30	637.26	620.30	600.30	NP	0.00	20.95	18.99	616.31	No	
EW-08	04/16/12	635.30	637.26	620.30	600.30	NP	0.00	21.29	19.33	615.97	No	
EW-08	05/18/12	635.30	637.26	620.30	600.30	NP	0.00	20.42	18.46	616.84	No	
EW-08	06/26/12	635.30	637.26	620.30	600.30	NP	0.00	18.86	16.90	618.40	No	
EW-08	07/24/12	635.30	637.26	620.30	600.30	NP	0.00	18.17	16.21	619.09	No	
EW-08	08/19/12	635.30	637.26	620.30	600.30	NP	0.00	19.51	17.55	617.75	No	
EW-08	09/17/12	635.30	637.26	620.30	600.30	NP	0.00	19.57	17.61	617.69	No	
EW-08	09/30/12	635.30	637.26	620.30	600.30	NP	0.00	20.07	18.11	617.19	No	
EW-08	10/22/12	635.30	637.26	620.30	600.30	NP	0.00	20.40	18.44	616.86	No	
EW-08	11/21/12	635.30	637.26	620.30	600.30	NP	0.00	20.53	18.57	616.73	No	
EW-08	12/17/12	635.30	637.26	620.30	600.30	NP	0.00	20.79	18.83	616.47	No	
EW-08	03/25/13	635.30	637.26	620.30	600.30	NP	0.00	21.53	19.57	615.73	No	
EW-08	05/05/13	635.30	637.26	620.30	600.30	NP	0.00	21.38	19.42	615.88	No	
EW-08	10/03/13	635.30	637.26	620.30	600.30	NP	0.00	21.80	19.84	615.46	No	
EW-08	05/21/14	635.30	637.26	620.30	600.30	NP	0.00	18.68	16.72	618.58	No	
EW-08	10/30/14	635.30	637.26	620.30	600.30	NP	0.00	18.51	16.55	618.75	No	
EW-08	05/05/15	635.30	637.26	620.30	600.30	NP	0.00	20.45	18.49	616.81	No	
EW-08	10/06/15	635.30	637.26	620.30	600.30	NP	0.00	18.75	16.79	618.51	No	
EW-08	05/23/16	635.30	637.26	620.30	600.30	NP	0.00	16.31	14.35	620.95	Yes	

Table 3
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-08	10/03/16	635.30	637.26	620.30	600.30	NP	0.00	17.60	15.64	619.66	No	
EW-08	06/29/17	635.30	637.26	620.30	600.30	NP	0.00	17.16	15.20	620.10	No	
EW-09	07/25/11	635.20	637.34	620.20	600.20	NP	0.00	18.38	16.24	618.96	No	
EW-09	08/18/11	635.20	637.34	620.20	600.20	NP	0.00	17.96	15.82	619.38	No	
EW-09	08/25/11	635.20	637.34	620.20	600.20	NP	0.00	18.33	16.19	619.01	No	
EW-09	09/01/11	635.20	637.34	620.20	600.20	NP	0.00	18.45	16.31	618.89	No	
EW-09	09/08/11	635.20	637.34	620.20	600.20	NP	0.00	18.90	16.76	618.44	No	
EW-09	09/14/11	635.20	637.34	620.20	600.20	NP	0.00	19.24	17.10	618.10	No	
EW-09	09/23/11	635.20	637.34	620.20	600.20	NP	0.00	19.47	17.33	617.87	No	
EW-09	09/29/11	635.20	637.34	620.20	600.20	NP	0.00	19.46	17.32	617.88	No	
EW-09	10/07/11	635.20	637.34	620.20	600.20	NP	0.00	19.62	17.48	617.72	No	
EW-09	10/11/11	635.20	637.34	620.20	600.20	NP	0.00	19.74	17.60	617.60	No	
EW-09	10/21/11	635.20	637.34	620.20	600.20	NP	0.00	19.89	17.75	617.45	No	
EW-09	10/27/11	635.20	637.34	620.20	600.20	NP	0.00	20.14	18.00	617.20	No	
EW-09	11/04/11	635.20	637.34	620.20	600.20	NP	0.00	20.39	18.25	616.95	No	
EW-09	11/09/11	635.20	637.34	620.20	600.20	NP	0.00	20.35	18.21	616.99	No	
EW-09	11/18/11	635.20	637.34	620.20	600.20	NP	0.00	20.56	18.42	616.78	No	
EW-09	11/22/11	635.20	637.34	620.20	600.20	NP	0.00	20.28	18.14	617.06	No	
EW-09	12/01/11	635.20	637.34	620.20	600.20	NP	0.00	20.66	18.52	616.68	No	
EW-09	01/04/12	635.20	637.34	620.20	600.20	NP	0.00	21.37	19.23	615.97	No	
EW-09	02/16/12	635.20	637.34	620.20	600.20	NP	0.00	21.92	19.78	615.42	No	
EW-09	03/13/12	635.20	637.34	620.20	600.20	NP	0.00	22.20	20.06	615.14	No	
EW-09	04/16/12	635.20	637.34	620.20	600.20	NP	0.00	22.05	19.91	615.29	No	
EW-09	05/18/12	635.20	637.34	620.20	600.20	NP	0.00	21.08	18.94	616.26	No	
EW-09	06/26/12	635.20	637.34	620.20	600.20	NP	0.00	19.32	17.18	618.02	No	
EW-09	07/24/12	635.20	637.34	620.20	600.20	NP	0.00	19.89	17.75	617.45	No	
EW-09	08/19/12	635.20	637.34	620.20	600.20	NP	0.00	20.29	18.15	617.05	No	
EW-09	09/17/12	635.20	637.34	620.20	600.20	NP	0.00	20.78	18.64	616.56	No	
EW-09	09/30/12	635.20	637.34	620.20	600.20	NP	0.00	21.03	18.89	616.31	No	
EW-09	11/21/12	635.20	637.34	620.20	600.20	NP	0.00	21.38	19.24	615.96	No	
EW-09	12/17/12	635.20	637.34	620.20	600.20	NP	0.00	21.71	19.57	615.63	No	
EW-09	03/25/13	635.20	637.34	620.20	600.20	NP	0.00	22.57	20.43	614.77	No	
EW-09	05/05/13	635.20	637.34	620.20	600.20	NP	0.00	22.15	20.01	615.19	No	
EW-09	10/03/13	635.20	637.34	620.20	600.20	NP	0.00	21.58	19.44	615.76	No	
EW-09	05/21/14	635.20	637.34	620.20	600.20	NP	0.00	20.01	17.87	617.33	No	
EW-09	10/31/14	635.20	637.34	620.20	600.20	NP	0.00	19.57	17.43	617.77	No	
EW-09	05/05/15	635.20	637.34	620.20	600.20	NP	0.00	21.31	19.17	616.03	No	
EW-09	10/05/15	635.20	637.34	620.20	600.20	NP	0.00	19.23	17.09	618.11	No	
EW-09	05/23/16	635.20	637.34	620.20	600.20	NP	0.00	16.90	14.76	620.44	Yes	

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EW-09	10/03/16	635.20	637.34	620.20	600.20	NP	0.00	17.90	15.76	619.44	No	
EW-09	06/29/17	635.20	637.34	620.20	600.20	NP	0.00	17.46	15.32	619.88	No	
EW-10	07/25/11	635.90	637.83	620.90	600.90	NP	0.00	18.21	16.28	619.62	No	
EW-10	08/18/11	635.90	637.83	620.90	600.90	NP	0.00	17.74	15.81	620.09	No	
EW-10	08/25/11	635.90	637.83	620.90	600.90	NP	0.00	18.07	16.14	619.76	No	
EW-10	09/01/11	635.90	637.83	620.90	600.90	NP	0.00	18.03	16.10	619.80	No	
EW-10	09/08/11	635.90	637.83	620.90	600.90	NP	0.00	18.54	16.61	619.29	No	
EW-10	09/14/11	635.90	637.83	620.90	600.90	NP	0.00	18.93	17.00	618.90	No	
EW-10	09/23/11	635.90	637.83	620.90	600.90	NP	0.00	19.16	17.23	618.67	No	

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EW-10	09/29/11	635.90	637.83	620.90	600.90	NP	0.00	19.10	17.17	618.73	No	
EW-10	10/07/11	635.90	637.83	620.90	600.90	NP	0.00	19.24	17.31	618.59	No	
EW-10	10/11/11	635.90	637.83	620.90	600.90	NP	0.00	19.38	17.45	618.45	No	
EW-10	10/21/11	635.90	637.83	620.90	600.90	NP	0.00	19.69	17.76	618.14	No	
EW-10	10/27/11	635.90	637.83	620.90	600.90	NP	0.00	19.83	17.90	618.00	No	
EW-10	11/04/11	635.90	637.83	620.90	600.90	NP	0.00	20.05	18.12	617.78	No	
EW-10	11/09/11	635.90	637.83	620.90	600.90	NP	0.00	19.95	18.02	617.88	No	
EW-10	11/18/11	635.90	637.83	620.90	600.90	NP	0.00	20.12	18.19	617.71	No	
EW-10	11/22/11	635.90	637.83	620.90	600.90	NP	0.00	20.20	18.27	617.63	No	
EW-10	12/01/11	635.90	637.83	620.90	600.90	NP	0.00	20.66	18.73	617.17	No	
EW-10	01/04/12	635.90	637.83	620.90	600.90	NP	0.00	20.85	18.92	616.98	No	
EW-10	02/16/12	635.90	637.83	620.90	600.90	NP	0.00	21.40	19.47	616.43	No	
EW-10	03/13/12	635.90	637.83	620.90	600.90	NP	0.00	21.65	19.72	616.18	No	
EW-10	04/16/12	635.90	637.83	620.90	600.90	NP	0.00	21.59	19.66	616.24	No	
EW-10	05/18/12	635.90	637.83	620.90	600.90	NP	0.00	20.68	18.75	617.15	No	
EW-10	06/26/12	635.90	637.83	620.90	600.90	NP	0.00	19.19	17.26	618.64	No	
EW-10	07/24/12	635.90	637.83	620.90	600.90	NP	0.00	19.54	17.61	618.29	No	
EW-10	08/19/12	635.90	637.83	620.90	600.90	NP	0.00	19.93	18.00	617.90	No	
EW-10	09/17/12	635.90	637.83	620.90	600.90	NP	0.00	20.33	18.40	617.50	No	
EW-10	09/30/12	635.90	637.83	620.90	600.90	NP	0.00	20.55	18.62	617.28	No	
EW-10	11/21/12	635.90	637.83	620.90	600.90	NP	0.00	20.96	19.03	616.87	No	
EW-10	12/17/12	635.90	637.83	620.90	600.90	NP	0.00	21.19	19.26	616.64	No	
EW-10	03/25/13	635.90	637.83	620.90	600.90	NP	0.00	21.97	20.04	615.86	No	
EW-10	05/05/13	635.90	637.83	620.90	600.90	NP	0.00	21.72	19.79	616.11	No	
EW-10	10/13/13	635.90	637.83	620.90	600.90	NP	0.00	21.17	19.24	616.66	No	
EW-10	05/21/14	635.90	637.83	620.90	600.90	NP	0.00	19.97	18.04	617.86	No	
EW-10	10/31/14	635.90	637.83	620.90	600.90	NP	0.00	19.30	17.37	618.53	No	
EW-10	05/05/15	635.90	637.83	620.90	600.90	NP	0.00	21.05	19.12	616.78	No	
EW-10	10/05/15	635.90	637.83	620.90	600.90	NP	0.00	18.98	17.05	618.85	No	
EW-10	05/23/16	635.90	637.83	620.90	600.90	NP	0.00	16.60	14.67	621.23	Yes	
EW-10	10/03/16	635.90	637.83	620.90	600.90	NP	0.00	17.65	15.72	620.18	No	
EW-10	06/29/17	635.90	637.83	620.90	600.90	NP	0.00	17.31	15.38	620.52	No	
EW-11	07/25/11	637.20	639.14	622.20	602.20	18.65	1.84	20.49	17.13	620.07	No	
EW-11	08/18/11	637.20	639.14	622.20	602.20	17.94	3.58	21.52	16.81	620.39	No	
EW-11	08/25/11	637.20	639.14	622.20	602.20	18.28	4.01	22.29	17.25	619.95	No	
EW-11	09/01/11	637.20	639.14	622.20	602.20	18.15	4.05	22.20	17.12	620.08	No	
EW-11	09/08/11	637.20	639.14	622.20	602.20	18.69	4.08	22.77	17.67	619.53	No	
EW-11	09/14/11	637.20	639.14	622.20	602.20	19.10	4.30	23.40	18.13	619.07	No	

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EW-11	09/23/11	637.20	639.14	622.20	602.20	19.20	4.66	23.86	18.31	618.89	No	
EW-11	09/29/11	637.20	639.14	622.20	602.20	18.99	5.13	24.12	18.21	618.99	No	
EW-11	10/07/11	637.20	639.14	622.20	602.20	19.15	5.07	24.22	18.36	618.84	No	
EW-11	10/11/11	637.20	639.14	622.20	602.20	19.21	5.16	24.37	18.44	618.76	No	
EW-11	10/21/11	637.20	639.14	622.20	602.20	19.62	4.13	23.75	18.61	618.59	No	
EW-11	10/27/11	637.20	639.14	622.20	602.20	19.70	4.78	24.48	18.84	618.36	No	
EW-11	11/04/11	637.20	639.14	622.20	602.20	19.87	5.03	24.90	19.07	618.13	No	
EW-11	11/09/11	637.20	639.14	622.20	602.20	19.68	5.31	24.99	18.94	618.26	No	
EW-11	11/10/11	637.20	639.14	622.20	602.20	19.80	5.49	25.29	19.10	618.10	No	Before EFR
EW-11	11/10/11	637.20	639.14	622.20	602.20	21.71	0.11	21.82	19.79	617.41	No	After EFR
EW-11	11/13/11	637.20	639.14	622.20	602.20	19.99	2.76	22.75	18.67	618.53	No	EFR Check
EW-11	11/18/11	637.20	639.14	622.20	602.20	20.23	3.07	23.30	18.98	618.22	No	
EW-11	11/22/11	637.20	639.14	622.20	602.20	20.38	3.32	23.70	19.19	618.01	No	
EW-11	12/01/11	637.20	639.14	622.20	602.20	20.71	3.88	24.59	19.65	617.55	No	
EW-11	01/04/12	637.20	639.14	622.20	602.20	20.67	4.96	25.63	19.85	617.35	No	
EW-11	02/16/12	637.20	639.14	622.20	602.20	21.31	4.87	26.18	20.47	616.73	No	
EW-11	03/13/12	637.20	639.14	622.20	602.20	21.68	4.34	26.02	20.72	616.48	No	
EW-11	04/12/12	637.20	639.14	622.20	602.20	21.61	4.06	25.67	20.59	616.61	No	Spill Buddy Before Reading
EW-11	04/12/12	637.20	639.14	622.20	602.20	22.65	0.17	22.82	20.75	616.45	No	Spill Buddy After Reading
EW-11	04/16/12	637.20	639.14	622.20	602.20	22.03	2.56	24.59	20.67	616.53	No	
EW-11	03/13/12	637.20	639.14	622.20	602.20	21.68	4.34	26.02	20.72	616.48	No	
EW-11	04/12/12	637.20	639.14	622.20	602.20	21.61	4.06	25.67	20.59	616.61	No	Spill Buddy Before Reading
EW-11	04/12/12	637.20	639.14	622.20	602.20	22.65	0.17	22.82	20.75	616.45	No	Spill Buddy After Reading
EW-11	04/16/12	637.20	639.14	622.20	602.20	22.03	2.56	24.59	20.67	616.53	No	
EW-11	05/18/12	637.20	639.14	622.20	602.20	19.93	1.75	21.68	18.39	618.81	No	
EW-11	06/26/12	637.20	639.14	622.20	602.20	19.44	3.31	22.75	18.25	618.95	No	
EW-11	06/27/12	637.20	639.14	622.20	602.20	19.44	3.31	22.75	18.25	618.95	No	Installed Portable system 1
EW-11	11/21/12	637.20	639.14	622.20	602.20	21.42	2.40	23.82	20.02	617.18	No	
EW-11	12/17/12	637.20	639.14	622.20	602.20	21.56	3.29	24.85	20.36	616.84	No	
EW-11	03/25/13	637.20	639.14	622.20	602.20	22.38	3.40	25.78	21.21	615.99	No	
EW-11	05/05/13	637.20	639.14	622.20	602.20	22.07	3.37	25.44	20.89	616.31	No	
EW-11	05/16/13	637.20	639.14	622.20	602.20	21.98	3.60	25.58	20.85	616.35	No	Spill Buddy Before Reading
EW-11	05/16/13	637.20	639.14	622.20	602.20	22.92	0.05	22.97	20.99	616.21	No	Spill Buddy After Reading
EW-11	10/03/13	637.20	639.14	622.20	602.20	21.28	4.69	25.97	20.40	616.80	No	
EW-11	05/22/14	637.20	639.14	622.20	602.20	19.96	5.07	25.03	19.17	618.03	No	
EW-11	10/31/14	637.20	639.14	622.20	602.20	19.25	5.11	24.36	18.46	618.74	No	
EW-11	05/06/15	637.20	639.14	622.20	602.20	21.02	4.70	25.72	20.14	617.06	No	
EW-11	10/05/15	637.20	639.14	622.20	602.20	19.29	3.63	22.92	18.17	619.03	No	
EW-11	05/23/16	637.20	639.14	622.20	602.20	16.07	7.92	23.99	15.92	621.28	No	
EW-11	10/03/16	637.20	639.14	622.20	602.20	17.65	5.78	23.43	17.02	620.18	No	
EW-11	06/14/17	637.20	639.14	622.20	602.20	16.42	7.04	23.46	16.07	621.13	No	
EW-11	06/21/17	637.20	639.14	622.20	602.20	16.93	6.39	23.32	16.43	620.77	No	
EW-11	06/22/17	637.20	639.14	622.20	602.20	17.66	1.78	19.44	16.12	621.08	No	
EW-11	06/23/17	637.20	639.14	622.20	602.20	17.78	1.90	19.68	16.27	620.93	No	
EW-11	10/26/17	637.20	639.14	622.20	602.20	14.43	8.41	22.84	14.39	622.81	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
 Former Amoco Terminal
 Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
Tank 1	01/22/02	----	----	----	----	NP	0.00	4.84	----	----	----	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
Tank 1	02/26/02	----	----	----	----	3.81	1.07	4.88	----	----	----	
Tank 1	03/20/02	----	----	----	----	4.29	0.59	4.88	----	----	----	
Tank 1	04/24/02	----	----	----	----	NP	0.00	5.15	----	----	----	Tank Empty
Tank 1	05/15/02	----	----	----	----	3.56	1.34	4.90	----	----	----	
Tank 1	06/27/02	----	----	----	----	3.06	1.82	4.88	----	----	----	
Tank 1	07/25/02	----	----	----	----	2.55	2.34	4.89	----	----	----	
Tank 1	08/20/02	----	----	----	----	2.41	2.48	4.89	----	----	----	
Tank 1	09/30/02	----	----	----	----	2.36	2.53	4.89	----	----	----	
Tank 1	11/05/02	----	----	----	----	2.38	2.49	4.87	----	----	----	
Tank 1	12/23/02	----	----	----	----	2.39	2.50	4.89	----	----	----	
Tank 1	01/28/03	----	----	----	----	2.39	2.52	4.91	----	----	----	
Tank 1	02/19/03	----	----	----	----	2.26	2.65	4.91	----	----	----	
Tank 1	04/17/03	----	----	----	----	1.64	3.27	4.91	----	----	----	
Tank 1	05/15/03	----	----	----	----	4.59	0.43	5.02	----	----	----	
Tank 1	06/10/03	----	----	----	----	4.25	0.78	5.03	----	----	----	
Tank 1	07/30/03	----	----	----	----	4.89	0.12	5.01	----	----	----	
Tank 1	08/12/03	----	----	----	----	4.68	0.33	5.01	----	----	----	
Tank 1	09/08/03	----	----	----	----	4.66	0.35	5.01	----	----	----	
Tank 1	10/02/03	----	----	----	----	4.35	0.70	5.05	----	----	----	
Tank 1	12/03/03	----	----	----	----	3.81	1.22	5.03	----	----	----	
Tank 2	01/22/02	----	----	----	----	4.87	0.08	4.95	----	----	----	
Tank 2	02/26/02	----	----	----	----	4.84	0.10	4.94	----	----	----	
Tank 2	03/20/02	----	----	----	----	4.68	0.26	4.94	----	----	----	
Tank 2	04/24/02	----	----	----	----	NP	0.00	5.05	----	----	----	
Tank 2	05/15/02	----	----	----	----	4.65	0.31	4.96	----	----	----	
Tank 2	06/27/02	----	----	----	----	4.65	0.32	4.97	----	----	----	
Tank 2	07/25/02	----	----	----	----	4.64	0.34	4.98	----	----	----	
Tank 2	08/20/02	----	----	----	----	4.64	0.34	4.98	----	----	----	
Tank 2	09/30/02	----	----	----	----	4.65	0.33	4.98	----	----	----	
Tank 2	11/05/02	----	----	----	----	4.67	0.28	4.95	----	----	----	
Tank 2	12/23/02	----	----	----	----	4.69	0.29	4.98	----	----	----	
Tank 2	01/28/03	----	----	----	----	4.71	0.28	4.99	----	----	----	
Tank 2	02/19/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	04/17/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	05/15/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	06/10/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	10/23/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	10/02/03	----	----	----	----	4.57	0.48	5.05	----	----	----	
Tank 2	01/20/04	----	----	----	----	4.58	0.45	5.03	----	----	----	
Tank 2	07/28/04	----	----	----	----	4.32	0.71	5.03	----	----	----	
VE-1	07/20/11	634.30	636.30	620.30	605.30	NP	0.00	17.24	15.24	619.06	No	
VE-1	09/20/12		636.30			19.33	1.27	20.60	-616.68		No	

Table 3
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
VE-1	10/22/12	NM										
VE-1	12/20/12		636.30			20.25	1.51	21.76	-615.71		No	
VE-2	07/20/11	634.20	636.20	621.20	606.20	NP	0.00	17.10	15.10	619.10	No	
VE-2	09/20/12		636.20			19.48	2.27	21.75	-616.21		No	
VE-2	10/22/12		636.20			14.60	1.00	15.60	-621.37		No	
VE-2	12/20/12		636.20			20.50	1.30	21.80	-615.41		No	
VE-3	07/20/11	635.00	637.10	623.00	608.00	NP	0.00	17.38	15.28	619.72	No	
VE-3	09/20/12		637.10			20.08	0.19	20.27	-616.98		No	
VE-3	10/22/12	NM										
VE-3	12/20/12		637.10			20.60	2.67	23.27	-615.90		No	
VE-4	07/20/11	634.00	636.10	622.00	607.00	NP	0.00	16.58	14.48	619.52	No	
VE-4	09/20/12		636.10			19.21	1.20	20.41	-616.62		No	
VE-4	10/22/12		636.10			19.86	0.83	20.69	-616.05		No	
VE-4	12/20/12		636.10			19.75	3.89	23.64	-615.47		No	
Dock Tank	06/29/00	----	----	----	----	6.67	0.25	6.92	----	----	----	
Dock Tank	01/22/02	----	----	----	----	6.38	0.51	6.89	----	----	----	
Dock Tank	04/24/02	----	----	----	----	6.35	0.50	6.85	----	----	----	

UST REMOVED OCTOBER 3, 2002

Notes:

NM = Not Measured

NP = No Product

BTOC = Below Top of Casing

AMSL = Above Mean Sea Level

* Corrections for free product made using: TOC elevation-[depth to ground water-(product thickness * product density)]

Average Product Density = 0.77 g/cm3 based on average of 4 NE terminal wells (Table 8) - MW-32, RW-2, RW-4 and RW-6

Table 4
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)	Comment
MWAST-2	10/22/2003	628.28	630.85	623.28	608.28	16.86	4.50	21.36	15.26	613.02	NA	5.71	No	
MWAST-2	12/3/2003	628.28	630.85	623.28	608.28	18.01	4.45	22.46	16.40	611.88	-1.14	4.56	No	
MWAST-2	1/8/2004	628.28	630.85	623.28	608.28	17.65	4.04	21.69	15.95	612.33	0.45	4.92	No	
MWAST-2	1/20/2004	628.28	630.85	623.28	608.28	17.71	3.96	21.67	15.99	612.29	-0.04	4.86	No	
MWAST-2	4/19/2004	628.28	630.85	623.28	608.28	16.51	4.88	21.39	14.99	613.29	1.00	6.06	No	
MWAST-2	7/27/2004	628.28	630.85	623.28	608.28	15.18	5.77	20.95	13.85	614.43	1.14	7.39	No	
MWAST-2	11/15/2004	628.28	630.85	623.28	608.28	13.82	6.52	20.34	12.65	615.63	1.20	8.75	No	
MWAST-2	4/18/2005	628.28	630.85	623.28	608.28	14.22	5.87	20.09	12.91	615.37	-0.26	8.35	No	
MWAST-2	9/9/2005	628.28	630.85	623.28	608.28	15.71	4.80	20.51	14.17	614.11	-1.26	6.86	No	
MWAST-2	10/11/2005	628.28	630.85	623.28	608.28	13.34	6.60	19.94	12.19	616.09	1.98	9.23	No	
MWAST-2	5/23/2006	628.28	630.85	623.28	608.28	12.43	7.21	19.64	11.41	616.87	0.78	10.14	No	
MWAST-2	10/16/2006	628.28	630.85	623.28	608.28	15.85	4.62	20.47	14.27	614.01	-2.86	6.72	No	
MWAST-2	4/23/2007	628.28	630.85	623.28	608.28	15.76	4.74	20.50	14.21	614.07	0.06	6.81	No	
MWAST-2	9/25/2007	628.28	630.72	623.28	608.28	15.74	4.78	20.52	14.33	613.95	-0.12	6.70	No	
MWAST-2	5/1/2008	628.28	630.72	623.28	608.28	12.09	7.53	19.62	11.27	617.01	3.06	10.35	No	
MWAST-2	10/20/2008	628.28	630.72	623.28	608.28	11.84	7.74	19.58	11.06	617.22	0.20	10.60	No	
MWAST-2	4/18/2009	628.28	630.72	623.28	608.28	13.18	6.51	19.69	12.14	616.14	-1.08	9.26	No	
MWAST-2	10/11/2009	628.28	630.72	623.28	608.28	15.21	4.96	20.17	13.84	614.44	-1.70	7.23	No	
MWAST-2	4/28/2010	628.28	630.72	623.28	608.28	14.91	5.07	19.98	13.56	614.72	0.28	7.53	No	
MWAST-2	10/25/2010	628.28	630.72	623.28	608.28	12.54	7.10	19.64	11.63	616.65	1.93	9.90	No	
MWAST-2	4/25/2011	628.28	630.72	623.28	608.28	13.29	6.15	19.44	12.17	616.11	-0.55	9.15	No	
MWAST-2	8/2/2011	628.28	630.72	623.28	608.28	11.6	7.89	19.49	10.86	617.42	1.32	10.84	No	
MWAST-2	9/14/2011	628.28	630.72	623.28	608.28	13.53	6.18	19.71	12.42	615.86	-1.56	8.91	No	
MWAST-2	9/23/2011	628.28	630.72	623.28	608.28	13.89	5.89	19.78	12.72	615.56	-0.30	8.55	No	
MWAST-2	9/29/2011	628.28	630.72	623.28	608.28	13.94	6.04	19.98	12.80	615.48	-0.08	8.50	No	
MWAST-2	10/7/2011	628.28	630.72	623.28	608.28	14.27	5.49	19.76	13.01	615.27	-0.21	8.17	No	
MWAST-2	10/11/2011	628.28	630.72	623.28	608.28	14.58	5.75	20.33	13.38	614.90	-0.37	7.86	No	
MWAST-2	10/21/2011	628.28	630.72	623.28	608.28	14.7	5.38	20.08	13.42	614.86	-0.04	7.74	No	
MWAST-2	10/27/2011	628.28	630.72	623.28	608.28	14.79	5.35	20.14	13.50	614.78	-0.08	7.65	No	
MWAST-2	11/3/2011	628.28	630.72	623.28	608.28	15.06	5.27	20.33	13.75	614.53	-0.25	7.38	No	
MWAST-2	11/9/2011	628.28	630.72	623.28	608.28	15.12	4.81	19.93	13.71	614.57	0.04	7.32	No	
MWAST-2	11/17/2011	628.28	630.72	623.28	608.28	15.47	4.69	20.16	14.04	614.24	-0.32	6.97	No	
MWAST-2	11/22/2011	628.28	630.72	623.28	608.28	15.51	4.62	20.13	14.06	614.22	-0.02	6.93	No	
MWAST-2	12/1/2011	628.28	630.72	623.28	608.28	15.75	4.72	20.47	14.32	613.96	-0.26	6.69	No	
MWAST-2	1/4/2012	628.28	630.72	623.28	608.28	16.32	4.16	20.48	14.77	613.51	-0.45	6.12	No	
MWAST-2	2/16/2012	628.28	630.72	623.28	608.28	17.24	3.28	20.52	15.50	612.78	-0.73	5.20	No	
MWAST-2	3/13/2012	628.28	630.72	623.28	608.28	17.28	3.16	20.44	15.52	612.76	-0.01	5.16	No	
MWAST-2	4/11/2012	628.28	630.72	623.28	608.28	16.49	3.61	20.10	14.83	613.45	0.69	5.95	No	Spill Buddy Before Reading
MWAST-2	4/16/2012	628.28	630.72	623.28	608.28	16.28	3.93	20.21	14.68	613.60	0.14	6.16	No	

Table 4
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)	Comment
MWAST-2	5/18/2012	628.28	630.72	623.28	608.28	14.85	5.03	19.88	13.49	614.79	1.19	7.59	No	
MWAST-2	6/28/2012	628.28	630.72	623.28	608.28	10.77	8.46	19.23	10.15	618.13	3.34	11.67	No	
MWAST-2	7/10/2012	628.28	630.72	623.28	608.28	12.42	6.96	19.38	11.48	616.80	-1.33	10.02	No	Spill Buddy Before Reading
MWAST-2	7/24/2012	628.28	630.72	623.28	608.28	13.77	5.73	19.50	12.56	615.72	-1.09	8.67	No	
MWAST-2	8/17/2012	628.28	630.72	623.28	608.28	14.54	5.12	19.66	13.20	615.08	-0.64	7.90	No	
MWAST-2	8/28/2012	628.28	630.72	623.28	608.28	14.99	4.83	19.82	13.59	614.69	-0.39	7.45	No	Spill Buddy Before Reading
MWAST-2	9/17/2012	628.28	630.72	623.28	608.28	15.7	4.30	20.00	14.18	614.10	-0.60	6.74	No	
MWAST-2	9/28/2012	628.28	630.72	623.28	608.28	16.09	4.00	20.09	14.51	613.77	-0.33	6.35	No	Spill Buddy Before Reading
MWAST-2	9/30/2012	628.28	630.72	623.28	608.28	16.16	3.61	19.77	14.50	613.78	0.01	6.28	No	
MWAST-2	11/21/2012	628.28	630.72	623.28	608.28	16.56	3.70	20.26	14.91	613.37	-0.42	5.88	No	
MWAST-2	12/17/2012	628.28	630.72	623.28	608.28	16.84	3.49	20.33	15.15	613.13	-0.23	5.60	No	
MWAST-2	3/25/2013	628.28	630.72	623.28	608.28	18.1	2.73	20.83	16.25	612.03	-1.10	4.34	No	
MWAST-2	5/5/2013	628.28	630.72	623.28	608.28	15.34	4.89	20.23	13.95	614.33	2.30	7.10	No	
MWAST-2	10/3/2013	628.28	630.72	623.28	608.28	16.1	4.46	20.56	14.62	613.66	-0.67	6.34	No	
MWAST-2	5/22/2014	628.28	630.72	623.28	608.28	11	8.58	19.58	10.40	617.88	4.21	11.44	No	
MWAST-2	10/31/2014	628.28	630.72	623.28	608.28	13.8	6.09	19.89	12.67	615.61	-2.27	8.64	No	
MWAST-2	4/15/2015	628.28	630.72	623.28	608.28	16.3	4.13	20.43	14.75	613.53	-2.08	6.14	No	
MWAST-2	4/22/2015	628.28	630.72	623.28	608.28	15.65	4.55	20.20	14.19	614.09	0.56	6.79	No	
MWAST-2	4/29/2015	628.28	630.72	623.28	608.28	15.37	4.59	19.96	13.92	614.36	0.27	7.07	No	
MWAST-2	5/6/2015	628.28	630.72	623.28	608.28	15.35	4.49	19.84	13.87	614.41	0.04	7.09	No	
MWAST-2	5/12/2015	628.28	630.72	623.28	608.28	14.75	4.98	19.73	13.38	614.90	0.49	7.69	No	
MWAST-2	6/9/2015	628.28	630.72	623.28	608.28	13.22	6.31	19.53	12.14	616.14	1.24	9.22	No	
MWAST-2	10/5/2015	628.28	630.72	623.28	608.28	13.06	6.54	19.60	12.03	616.25	0.11	9.38	No	
MWAST-2	5/23/2016	628.28	630.72	623.28	608.28	10.69	8.85	19.54	10.15	618.13	1.87	11.75	No	
MWAST-2	10/3/2016	628.28	630.72	623.28	608.28	12.97	6.49	19.46	11.92	616.36	-1.77	9.47	No	
MWAST-2	5/22/2017	628.28	630.72	623.28	608.28	9.93	7.50	17.43	9.10	619.18	2.82	12.51	No	
MWAST-2	5/31/2017	628.28	630.72	623.28	608.28	9.31	10.00	19.31	9.02	619.26	0.08	13.13	No	
MWAST-2	6/29/2017	628.28	630.72	623.28	608.28	11.81	7.63	19.44	11.01	617.27	-1.99	10.63	No	
MWAST-2	8/8/2017	628.28	630.72	623.28	608.28	11.66	7.58	19.24	10.85	617.43	0.16	10.78	No	
MWAST-2	8/15/2017	628.28	630.72	623.28	608.28	11.31	5.80	17.11	10.12	618.16	0.73	11.13	No	
MWAST-2	8/22/2017	628.28	630.72	623.28	608.28	11.56	3.39	14.95	9.85	618.43	0.27	10.88	No	
MWAST-2	10/26/2017	628.28	630.72	623.28	608.28	10.16	6.53	16.69	9.12	619.16	1.73	12.28	No	
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	

Table 4
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)	Comment
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-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	
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	

Table 4
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)	Comment
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	0.68	8.09	No	
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	

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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)	Comment
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-6	10/23/2003	629.13	632.04	619.13	609.13	17.59	5.53	23.12	15.95	613.18	NA	5.32	No	
MWAST-6	12/3/2003	629.13	632.04	619.13	609.13	17.83	5.17	23.00	16.11	613.02	-0.16	5.08	No	
MWAST-6	1/20/2004	629.13	632.04	619.13	609.13	18.51	4.67	23.18	16.67	612.46	-0.57	4.40	No	
MWAST-6	4/19/2004	629.13	632.04	619.13	609.13	17.85	3.68	21.53	15.79	613.34	0.89	5.06	No	
MWAST-6	7/27/2004	629.13	632.04	619.13	609.13	16.39	4.67	21.06	14.55	614.58	1.23	6.52	No	
MWAST-6	11/15/2004	629.13	632.04	619.13	609.13	15.68	2.10	17.78	13.25	615.88	1.30	7.23	No	
MWAST-6	4/18/2005	629.13	632.04	619.13	609.13	15.07	2.90	17.97	12.83	616.30	0.43	7.84	No	
MWAST-6	9/9/2005	629.13	632.04	619.13	609.13	16.23	4.46	20.69	14.35	614.78	-1.52	6.68	No	
MWAST-6	10/11/2005	629.13	632.04	619.13	609.13	15.58	0.84	16.42	12.86	616.27	1.48	7.33	No	

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MWAST-6	5/23/2006	629.13	632.04	619.13	609.13	14.56	1.06	15.62	11.89	617.24	0.97	8.35	No	
MWAST-6	10/16/2006	629.13	632.04	619.13	609.13	16.66	4.57	21.23	14.80	614.33	-2.91	6.25	No	
MWAST-6	4/23/2007	629.13	632.04	619.13	609.13	16.94	4.14	21.08	14.98	614.15	-0.18	5.97	No	
MWAST-6	9/25/2007	629.13	632.04	619.13	609.13	17.05	2.97	20.02	14.82	614.31	0.16	5.86	No	
MWAST-6	5/1/2008	629.13	632.04	619.13	609.13	14.71	1.41	16.12	12.12	617.01	2.70	8.20	No	
MWAST-6	10/20/2008	629.13	632.04	619.13	609.13	13.95	0.92	14.87	11.25	617.88	0.87	8.96	No	
MWAST-6	4/18/2009	629.13	632.04	619.13	609.13	15.42	0.58	16.00	12.64	616.49	-1.39	7.49	No	
MWAST-6	10/11/2009	629.13	632.04	619.13	609.13	16.33	2.59	18.92	14.02	615.11	-1.37	6.58	No	
MWAST-6	4/28/2010	629.13	632.04	619.13	609.13	16.28	2.28	18.56	13.89	615.24	0.12	6.63	No	
MWAST-6	10/25/2010	629.13	632.04	619.13	609.13	14.07	1.31	15.38	11.46	617.67	2.43	8.84	No	
MWAST-6	4/25/2011	629.13	632.04	619.13	609.13	15.31	0.71	16.02	12.56	616.57	-1.10	7.60	No	
MWAST-6	8/2/2011	629.13	632.04	619.13	609.13	13.27	1.03	14.30	10.60	618.53	1.97	9.64	No	
MWAST-6	10/11/2011	629.13	632.04	619.13	609.13	15.93	0.90	16.83	13.23	615.90	-2.63	6.98	No	
MWAST-6	1/4/2012	629.13	632.04	619.13	609.13	17.08	3.29	20.37	14.93	614.20	-1.70	5.83	No	
MWAST-6	4/11/2012	629.13	632.04	619.13	609.13	17.20	4.52	21.72	15.33	613.80	-0.40	5.71	No	Spill Buddy Before Reading
MWAST-6	4/16/2012	629.13	632.04	619.13	609.13	17.38	1.68	19.06	14.86	614.27	0.47	5.53	No	
MWAST-6	6/28/2012	629.13	632.04	619.13	609.13	13.55	1.07	14.62	10.89	618.24	3.97	9.36	No	
MWAST-6	9/30/2012	629.13	632.04	619.13	609.13	16.91	3.33	20.24	14.77	614.36	-3.88	6.00	No	
MWAST-6	11/21/2012	629.13	632.04	619.13	609.13	17.40	4.02	21.42	15.41	613.72	-0.65	5.51	No	
MWAST-6	12/17/2012	629.13	632.04	619.13	609.13	17.66	4.04	21.70	15.68	613.45	-0.26	5.25	No	
MWAST-6	3/25/2013	629.13	632.04	619.13	609.13	18.82	3.08	21.90	16.62	612.51	-0.94	4.09	No	
MWAST-6	5/5/2013	629.13	632.04	619.13	609.13	17.36	1.74	19.10	14.85	614.28	1.77	5.55	No	
MWAST-6	10/3/2013	629.13	632.04	619.13	609.13	17.09	3.61	20.70	15.01	614.12	-0.16	5.82	No	
MWAST-6	5/22/2014	629.13	632.04	619.13	609.13	14.02	0.52	14.54	11.23	617.90	3.78	8.89	No	
MWAST-6	10/31/2014	629.13	632.04	619.13	609.13	15.28	1.73	17.01	12.77	616.36	-1.54	7.63	No	
MWAST-6	4/15/2015	629.13	632.04	619.13	609.13	17.35	3.55	20.90	15.26	613.87	-2.49	5.56	No	
MWAST-6	4/22/2015	629.13	632.04	619.13	609.13	17.31	1.67	18.98	14.78	614.35	0.47	5.60	No	
MWAST-6	4/29/2015	629.13	632.04	619.13	609.13	17.19	1.16	18.35	14.55	614.58	0.24	5.72	No	
MWAST-6	5/6/2015	629.13	632.04	619.13	609.13	17.06	1.10	18.16	14.40	614.73	0.14	5.85	No	
MWAST-6	5/12/2015	629.13	632.04	619.13	609.13	16.83	1.07	17.90	14.17	614.96	0.24	6.08	No	
MWAST-6	6/9/2015	629.13	632.04	619.13	609.13	15.52	0.01	15.53	12.61	616.52	1.55	7.39	No	
MWAST-6	10/5/2015	629.13	632.04	619.13	609.13	15.17	0.28	15.45	12.32	616.81	0.29	7.74	No	
MWAST-6	5/23/2016	629.13	632.04	619.13	609.13	12.80	0.93	13.73	10.10	619.03	2.22	10.11	No	
MWAST-6	10/3/2016	629.13	632.04	619.13	609.13	14.66	1.34	16.00	12.06	617.07	-1.95	8.25	No	
MWAST-6	5/22/2017	629.13	632.04	619.13	609.13	12.90	0.60	13.50	10.13	619.00	1.93	10.01	No	
MWAST-6	5/31/2017	629.13	632.04	619.13	609.13	11.84	1.53	13.37	9.28	619.85	0.85	11.07	Yes	
MWAST-8	10/22/2003	629.55	631.95	623.55	608.40	NP	0.00	18.12	15.72	613.83	NA	5.43	No	
MWAST-8	1/20/2004	629.55	631.95	623.55	608.40	NP	0.00	18.83	16.43	613.12	-0.71	4.72	No	

Table 4
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)	Comment
MWAST-8	4/19/2004	629.55	631.95	623.55	608.40	18.07	0.24	18.31	15.72	613.83	0.71	5.48	No	
MWAST-8	7/27/2004	629.55	631.95	623.55	608.40	16.87	0.26	17.13	14.52	615.03	1.20	6.68	No	
MWAST-8	11/15/2004	629.55	631.95	623.55	608.40	15.73	0.03	15.76	13.34	616.21	1.18	7.82	No	
MWAST-8	4/18/2005	629.55	631.95	623.55	608.40	15.96	0.15	16.11	13.59	615.96	-0.25	7.59	No	
MWAST-8	10/11/2005	629.55	631.95	623.55	608.40	15.50	0.12	15.62	13.12	616.43	0.47	8.05	No	
MWAST-8	5/23/2006	629.55	631.95	623.55	608.40	14.38	0.01	14.39	11.98	617.57	1.14	9.17	No	
MWAST-8	10/16/2006	629.55	631.95	623.55	608.40	17.22	0.33	17.55	14.88	614.67	-2.90	6.33	No	
MWAST-8	4/23/2007	629.55	631.95	623.55	608.40	17.20	0.31	17.51	14.86	614.69	0.02	6.35	No	
MWAST-8	9/25/2007	629.55	631.82	623.55	608.40	17.56	0.33	17.89	15.35	614.20	-0.49	5.86	No	
MWAST-8	5/1/2008	629.55	631.82	623.55	608.40	14.25	0.09	14.34	12.00	617.55	3.36	9.17	No	
MWAST-8	10/20/2008	629.55	631.82	623.55	608.40	13.95	0.18	14.13	11.71	617.84	0.28	9.47	No	
MWAST-8	4/18/2009	629.55	631.82	623.55	608.40	15.01	0.12	15.13	12.76	616.79	-1.05	8.41	No	
MWAST-8	10/11/2009	629.55	631.82	623.55	608.40	16.73	0.31	17.04	14.52	615.03	-1.76	6.69	No	
MWAST-8	4/28/2010	629.55	631.82	623.55	608.40	16.33	0.22	16.55	14.10	615.45	0.42	7.09	No	
MWAST-8	10/25/2010	629.55	631.82	623.55	608.40	14.52	0.08	14.60	12.27	617.28	1.84	8.90	No	
MWAST-8	4/25/2011	629.55	631.82	623.55	608.40	14.96	0.07	15.03	12.70	616.85	-0.44	8.46	No	
MWAST-8	10/11/2011	629.55	631.82	623.55	608.40	15.94	0.13	16.07	13.69	615.86	-0.99	7.48	No	
MWAST-8	1/4/2012	629.55	631.82	623.55	608.40	17.32	0.36	17.68	15.12	614.43	-1.42	6.10	No	
MWAST-8	4/11/2012	629.55	631.82	623.55	608.40	17.60	0.25	17.85	15.38	614.17	-0.26	5.82	No	
MWAST-8	4/16/2012	629.55	631.82	623.55	608.40	17.50	0.03	17.53	15.24	614.31	0.14	5.92	No	
MWAST-8	6/28/2012	629.55	631.82	623.55	608.40	13.01	0.09	13.10	10.76	618.79	4.48	10.41	No	
MWAST-8	9/28/2012	629.55	631.82	623.55	608.40	17.00	0.30	17.30	14.79	614.76	-4.03	6.42	No	Spill Buddy Before Reading
MWAST-8	9/30/2012	629.55	631.82	623.55	608.40	17.03	0.19	17.22	14.80	614.75	-0.01	6.39	No	
MWAST-8	11/21/2012	629.55	631.82	623.55	608.40	17.56	0.29	17.85	15.34	614.21	-0.55	5.86	No	
MWAST-8	12/17/2012	629.55	631.82	623.55	608.40	17.81	0.38	18.19	15.61	613.94	-0.27	5.61	No	
MWAST-8	3/25/2013	629.55	631.82	623.55	608.40	18.72	0.59	19.31	16.56	612.99	-0.95	4.70	No	
MWAST-8	5/5/2013	629.55	631.82	623.55	608.40	17.09	0.13	17.22	14.84	614.71	1.72	6.33	No	
MWAST-8	10/3/2013	629.55	631.82	623.55	608.40	17.34	0.23	17.57	15.11	614.44	-0.27	6.08	No	
MWAST-8	5/22/2014	629.55	631.82	623.55	608.40	NP	0.00	13.35	11.08	618.47	4.03	10.07	No	
MWAST-8	10/31/2014	629.55	631.82	623.55	608.40	15.38	0.09	15.47	13.13	616.42	-2.05	8.04	No	
MWAST-8	4/15/2015	629.55	631.82	623.55	608.40	17.47	0.18	17.65	15.23	614.32	-2.11	5.95	No	
MWAST-8	4/22/2015	629.55	631.82	623.55	608.40	17.02	0.07	17.09	14.76	614.79	0.47	6.40	No	
MWAST-8	4/29/2015	629.55	631.82	623.55	608.40	16.76	0.06	16.82	14.50	615.05	0.26	6.66	No	
MWAST-8	5/6/2015	629.55	631.82	623.55	608.40	16.68	0.07	16.75	14.42	615.13	0.08	6.74	No	
MWAST-8	5/12/2015	629.55	631.82	623.55	608.40	16.32	0.04	16.36	14.06	615.49	0.37	7.10	No	
MWAST-8	6/9/2015	629.55	631.82	623.55	608.40	14.98	0.02	15.00	12.71	616.84	1.34	8.44	No	
MWAST-8	7/10/2015	629.55	631.82	623.55	608.40	15.62	0.02	15.64	13.35	616.20	-0.64	7.80	No	
MWAST-8	7/11/2015	629.55	631.82	623.55	608.40	15.66	0.04	15.70	13.40	616.15	-0.04	7.76	No	
MWAST-8	7/12/2015	629.55	631.82	623.55	608.40	15.62	0.05	15.67	13.36	616.19	0.04	7.80	No	

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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)	Comment
MWAST-8	7/13/2015	629.55	631.82	623.55	608.40	15.56	0.03	15.59	13.30	616.25	0.06	7.86	No	
MWAST-8	7/15/2015	629.55	631.82	623.55	608.40	15.70	0.03	15.73	13.44	616.11	-0.14	7.72	No	
MWAST-8	7/17/2015	629.55	631.82	623.55	608.40	15.62	0.06	15.68	13.36	616.19	0.07	7.80	No	
MWAST-8	7/18/2015	629.55	631.82	623.55	608.40	15.66	0.06	15.72	13.40	616.15	-0.04	7.76	No	
MWAST-8	7/21/2015	629.55	631.82	623.55	608.40	15.89	0.03	15.92	13.63	615.92	-0.22	7.53	No	
MWAST-8	7/22/2015	629.55	631.82	623.55	608.40	15.92	0.04	15.96	13.66	615.89	-0.03	7.50	No	
MWAST-8	7/23/2015	629.55	631.82	623.55	608.40	15.96	0.03	15.99	13.70	615.85	-0.04	7.46	No	
MWAST-8	7/24/2015	629.55	631.82	623.55	608.40	15.93	0.02	15.95	13.66	615.89	0.03	7.49	No	
MWAST-8	7/25/2015	629.55	631.82	623.55	608.40	16.04	0.02	16.06	13.77	615.78	-0.11	7.38	No	
MWAST-8	7/27/2015	629.55	631.82	623.55	608.40	16.12	0.03	16.15	13.86	615.69	-0.08	7.30	No	
MWAST-8	7/31/2015	629.55	631.82	623.55	608.40	16.27	0.04	16.31	14.01	615.54	-0.15	7.15	No	
MWAST-8	8/4/2015	629.55	631.82	623.55	608.40	16.41	0.03	16.44	14.15	615.40	-0.14	7.01	No	
MWAST-8	8/7/2015	629.55	631.82	623.55	608.40	16.41	0.03	16.44	14.15	615.40	0.00	7.01	No	
MWAST-8	8/12/2015	629.55	631.82	623.55	608.40	16.41	0.02	16.43	14.14	615.41	0.00	7.01	No	
MWAST-8	8/14/2015	629.55	631.82	623.55	608.40	16.44	0.02	16.46	14.17	615.38	-0.03	6.98	No	
MWAST-8	8/15/2015	629.55	631.82	623.55	608.40	16.45	0.02	16.47	14.18	615.37	-0.01	6.97	No	
MWAST-8	8/17/2015	629.55	631.82	623.55	608.40	16.52	0.03	16.55	14.26	615.29	-0.07	6.90	No	
MWAST-8	9/10/2015	629.55	631.82	623.55	608.40	15.95	0.01	15.96	13.68	615.87	0.57	7.47	No	
MWAST-8	9/15/2015	629.55	631.82	623.55	608.40	15.99	0.02	16.01	13.72	615.83	-0.04	7.43	No	
MWAST-8	9/24/2015	629.55	631.82	623.55	608.40	NP	0.00	15.18	12.91	616.64	0.81	8.24	No	
MWAST-8	10/1/2015	629.55	631.82	623.55	608.40	Np	0.00	15.00	12.73	616.82	0.18	8.42	No	
MWAST-8	10/5/2015	629.55	631.82	623.55	608.40	NP	0.00	14.97	12.70	616.85	1.56	8.45	No	
MWAST-8	10/29/2015	629.55	631.82	623.55	608.40	NP	0.00	15.33	13.06	616.49	-0.36	8.09	No	
MWAST-8	11/3/2015	629.55	631.82	623.55	608.40	NP	0.00	15.20	12.93	616.62	0.13	8.22	No	
MWAST-8	4/21/2016	629.55	631.82	623.55	608.40	NP	0.00	12.64	10.37	619.18	2.56	10.78	No	
MWAST-8	4/27/2016	629.55	631.82	623.55	608.40	NP	0.00	11.67	9.40	620.15	0.97	11.75	No	
MWAST-8	5/18/2016	629.55	631.82	623.55	608.40	NP	0.00	12.58	10.31	619.24	-0.91	10.84	No	
MWAST-8	5/23/2016	629.55	631.82	623.55	608.40	NP	0.00	12.72	10.45	619.10	-0.14	10.70	No	
MWAST-8	5/31/2016	629.55	631.82	623.55	608.40	NP	0.00	12.77	10.50	619.05	-0.05	10.65	No	
MWAST-8	6/14/2016	629.55	631.82	623.55	608.40	NP	0.00	12.57	10.30	619.25	0.20	10.85	No	
MWAST-8	6/21/2016	629.55	631.82	623.55	608.40	NP	0.00	12.04	9.77	619.78	0.53	11.38	No	
MWAST-8	7/21/2016	629.55	631.82	623.55	608.40	NP	0.00	12.82	10.55	619.00	-0.78	10.60	No	
MWAST-8	7/25/2016	629.55	631.82	623.55	608.40	NP	0.00	13.26	10.99	618.56	-0.44	10.16	No	
MWAST-8	9/2/2016	629.55	631.82	623.55	608.40	NP	0.00	14.58	12.31	617.24	-1.32	8.84	No	
MWAST-8	10/3/2016	629.55	631.82	623.55	608.40	NP	0.00	14.72	12.45	617.10	-0.14	8.70	No	
MWAST-8	10/13/2016	629.55	631.82	623.55	608.40	NP	0.00	14.98	12.71	616.84	-0.26	8.44	No	
MWAST-8	5/18/2017	629.55	631.82	623.55	608.40	NP	0.00	12.79	10.52	619.03	2.19	10.63	No	
MWAST-8	5/31/2017	629.55	631.82	623.55	608.40	NP	0.00	11.52	9.25	620.30	1.27	11.90	No	
MWAST-8	5/30/2018	629.55	631.82	623.55	608.40	NP	0.00	15.12	12.85	616.70	-3.60	8.30	No	

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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)	Comment
MWAST-8	6/18/2018	629.55	631.82	623.55	608.40	NP	0.00	13.40	11.13	618.42	-1.88	10.02	No	
MWAST-8	6/27/2018	629.55	631.82	623.55	608.40	NP	0.00	13.66	11.39	618.16	1.46	9.76	No	
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		10.69	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	

Table 4
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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)	Comment
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-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	
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-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	

Table 4
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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)	Comment
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.
Well connected to Barge Dock Skimmer system - Phase 2														
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
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	-0.80	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	0.85	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	

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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	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		17.64		612.04	612.04	14.86	No	
MWM-4	10/22/2003	626.69	629.47	621.69	605.67	NP	0.00	17.00	14.22	612.47	NA	6.80	No	
MWM-4	1/20/2004	626.69	629.47	621.69	605.67	NP	0.00	17.79	15.01	611.68	-0.79	6.01	No	
MWM-4	4/19/2004	626.69	629.47	621.69	605.67	NP	0.00	16.37	13.59	613.10	1.42	7.43	No	
MWM-4	7/27/2004	626.69	629.47	621.69	605.67	NP	0.00	15.67	12.89	613.80	0.70	8.13	No	
MWM-4	11/18/2004	626.69	629.47	621.69	605.67	NP	0.00	14.59	11.81	614.88	1.08	9.21	No	
MWM-4	4/18/2005	626.69	629.47	621.69	605.67	NP	0.00	14.40	11.62	615.07	0.19	9.40	No	
MWM-4	10/11/2005	626.69	629.47	621.69	605.67	NP	0.00	13.96	11.18	615.51	0.44	9.84	No	
MWM-4	5/23/2006	626.69	629.47	621.69	605.67	NP	0.00	13.15	10.37	616.32	0.81	10.65	No	
MWM-4	10/16/2006	626.69	629.47	621.69	605.67	NP	0.00	16.18	13.40	613.29	-3.03	7.62	No	
MWM-4	4/23/2007	626.69	629.47	621.69	605.67	NP	0.00	15.59	12.81	613.88	0.59	8.21	No	

Table 4
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)	Comment
MWM-4	9/25/2007	626.69	629.30	621.69	605.67	NP	0.00	16.05	13.44	613.25	-0.63	7.58	No	
MWM-4	5/1/2008	626.69	629.30	621.69	605.67	NP	0.00	12.62	10.01	616.68	3.43	11.01	No	
MWM-4	10/20/2008	626.69	629.30	621.69	605.67	NP	0.00	12.85	10.24	616.45	-0.23	10.78	No	
MWM-4	8/31/2011	626.69	629.30	621.69	605.67	NP	0.00	13.11	10.50	616.19	-0.26	10.52	No	
MWM-4	10/11/2011	626.69	629.30	621.69	605.67	NP	0.00	15.26	12.65	614.04	-2.15	8.37	No	
MWM-4	1/4/2012	626.69	629.30	621.69	605.67	NP	0.00	16.21	13.60	613.09	-0.95	7.42	No	
MWM-4	4/16/2012	626.69	629.30	621.69	605.67	NP	0.00	15.81	13.20	613.49	0.40	7.82	No	
MWM-4	6/28/2012	626.69	629.30	621.69	605.67	NP	0.00	11.49	8.88	617.81	4.32	12.14	No	
MWM-4	9/30/2012	626.69	629.30	621.69	605.67	NP	0.00	15.89	13.28	613.41	-4.40	7.74	No	
MWM-4	12/17/2012	626.69	629.30	621.69	605.67	NP	0.00	16.68	14.07	612.62	-0.79	6.95	No	
MWM-4	3/25/2013	626.69	629.30	621.69	605.67	NP	0.00	17.31	14.70	611.99	-0.63	6.32	No	
MWM-4	5/5/2013	626.69	629.30	621.69	605.67	NP	0.00	15.35	12.74	613.95	1.96	8.28	No	
MWM-4	10/3/2013	626.69	629.30	621.69	605.67	NP	0.00	16.12	13.51	613.18	-0.77	7.51	No	
MWM-4	5/20/2014	626.69	629.30	621.69	605.67	NP	0.00	11.71	9.10	617.59	4.41	11.92	No	
MWM-4	10/31/2014	626.69	629.30	621.69	605.67	NP	0.00	14.09	11.48	615.21	-2.38	9.54	No	
MWM-4	5/6/2015	626.69	629.30	621.69	605.67	NP	0.00	15.25	12.64	614.05	-1.16	8.38	No	
MWM-4	10/5/2015	626.69	629.30	621.69	605.67	NP	0.00	13.72	11.11	615.58	1.53	9.91	No	
MWM-4	5/23/2016	626.69	629.30	621.69	605.67	NP	0.00	11.68	9.07	617.62	2.04	11.95	No	
MWM-4	10/3/2016	626.69	629.30	621.69	605.67	NP	0.00	13.59	10.98	615.71	-1.91	10.04	No	
MWM-4	5/18/2017	626.69	629.30	621.69	605.67	NP	0.00	11.50	8.89	617.80	2.09	12.13	No	
MWM-4	5/31/2017	626.69	629.30	621.69	605.67	NP	0.00	10.33	7.72	618.97	1.17	13.30	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

Table 4
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)	Comment
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	
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	-0.01	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	-0.16	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	

Table 4
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)	Comment
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-7	10/22/2003	625.01	627.53	616.01	600.86	NP	0.00	16.97	14.45	610.56	NA	9.70	No	
MWM-7	1/20/2004	625.01	627.53	616.01	600.86	NP	0.00	17.67	15.15	609.86	-0.70	9.00	No	
MWM-7	4/19/2004	625.01	627.53	616.01	600.86	NP	0.00	16.35	13.83	611.18	1.32	10.32	No	
MWM-7	7/27/2004	625.01	627.53	616.01	600.86	NP	0.00	15.89	13.37	611.64	0.46	10.78	No	
MWM-7	11/16/2004	625.01	627.53	616.01	600.86	NP	0.00	15.12	12.60	612.41	0.77	11.55	No	
MWM-7	4/18/2005	625.01	627.53	616.01	600.86	NP	0.00	15.13	12.61	612.40	-0.01	11.54	No	
MWM-7	10/11/2005	625.01	627.53	616.01	600.86	NP	0.00	14.68	12.16	612.85	0.45	11.99	No	
MWM-7	5/23/2006	625.01	627.53	616.01	600.86	NP	0.00	14.28	11.76	613.25	0.40	12.39	No	
MWM-7	10/16/2006	625.01	627.53	616.01	600.86	NP	0.00	16.38	13.86	611.15	-2.10	10.29	No	
MWM-7	4/23/2007	625.01	627.53	616.01	600.86	NP	0.00	15.91	13.39	611.62	0.47	10.76	No	
MWM-7	9/25/2007	625.01	627.36	616.01	600.86	NP	0.00	16.12	13.77	611.24	-0.38	10.38	No	
MWM-7	5/1/2008	625.01	627.36	616.01	600.86	NP	0.00	14.12	11.77	613.24	2.00	12.38	No	
MWM-7	10/20/2008	625.01	627.36	616.01	600.86	NP	0.00	13.62	11.27	613.74	0.50	12.88	No	
MWM-7	8/31/2011	625.01	627.36	616.01	600.86	NP	0.00	13.89	11.54	613.47	-0.27	12.61	No	
MWM-7	10/11/2011	625.01	627.36	616.01	600.86	NP	0.00	15.23	12.88	612.13	-1.34	11.27	No	
MWM-7	1/4/2012	625.01	627.36	616.01	600.86	NP	0.00	16.33	13.98	611.03	-1.10	10.17	No	
MWM-7	4/16/2012	625.01	627.36	616.01	600.86	NP	0.00	15.81	13.46	611.55	0.52	10.69	No	
MWM-7	6/28/2012	625.01	627.36	616.01	600.86	NP	0.00	12.79	10.44	614.57	3.02	13.71	No	
MWM-7	9/30/2012	625.01	627.36	616.01	600.86	NP	0.00	16.04	13.69	611.32	-3.25	10.46	No	
MWM-7	12/17/2012	625.01	627.36	616.01	600.86	NP	0.00	16.53	14.18	610.83	-0.49	9.97	No	
MWM-7	3/25/2013	625.01	627.36	616.01	600.86	NP	0.00	17.37	15.02	609.99	-0.84	9.13	No	
MWM-7	5/5/2013	625.01	627.36	616.01	600.86	NP	0.00	15.45	13.10	611.91	1.92	11.05	No	
MWM-7	10/1/2013	625.01	627.36	616.01	600.86	NP	0.00	15.95	13.60	611.41	-0.50	10.55	No	
MWM-7	5/21/2014	625.01	627.36	616.01	600.86	NP	0.00	12.95	10.60	614.41	3.00	13.55	No	
MWM-7	10/29/2014	625.01	627.36	616.01	600.86	NP	0.00	14.23	11.88	613.13	-1.28	12.27	No	
MWM-7	5/6/2015	625.01	627.36	616.01	600.86	NP	0.00	15.28	12.93	612.08	-1.05	11.22	No	
MWM-7	10/6/2015	625.01	627.36	616.01	600.86	NP	0.00	14.11	11.76	613.25	1.17	12.39	No	
MWM-7	5/23/2016	625.01	627.36	616.01	600.86	NP	0.00	12.81	10.46	614.55	1.30	13.69	No	
MWM-7	10/3/2016	625.01	627.36	616.01	600.86	NP	0.00	13.99	11.64	613.37	-1.18	12.51	No	
MWM-7	6/29/2017	625.01	627.36	616.01	600.86	NP	0.00	13.15	10.80	614.21	0.84	13.35	No	
MWM-7D	7/31/2009	622.11	623.93	570.11	665.11	NP	0.00	11.49	9.67	612.44	NA	-52.67	Yes	
MWM-7D	10/11/2009	622.11	623.93	570.11	565.11	NP	0.00	12.49	10.67	611.44	NA	46.33	Yes	
MWM-7D	4/28/2010	622.11	623.93	570.11	565.11	NP	0.00	12.63	10.81	611.30	-0.14	46.19	Yes	
MWM-7D	10/25/2010	622.11	623.93	570.11	565.11	NP	0.00	11.36	9.54	612.57	1.27	47.46	Yes	
MWM-7D	4/25/2011	622.11	623.93	570.11	565.11	NP	0.00	11.91	10.09	612.02	-0.55	46.91	Yes	

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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)	Comment
MWM-7D	10/11/2011	622.11	623.93	570.11	565.11	NP	0.00	12.10	10.28	611.83	-0.19	46.72	Yes	
MWM-7D	1/4/2012	622.11	623.93	570.11	565.11	NP	0.00	13.23	11.41	610.70	-1.13	45.59	Yes	
MWM-7D	4/16/2012	622.11	623.93	570.11	565.11	NP	0.00	13.03	11.21	610.90	0.20	45.79	Yes	
MWM-7D	6/28/2012	622.11	623.93	570.11	565.11	NP	0.00	10.45	8.63	613.48	2.58	48.37	Yes	
MWM-7D	9/30/2012	622.11	623.93	570.11	565.11	NP	0.00	12.99	11.17	610.94	-2.54	45.83	Yes	
MWM-7D	12/17/2012	622.11	623.93	570.11	565.11	NP	0.00	13.44	11.62	610.49	-0.45	45.38	Yes	
MWM-7D	3/25/2013	622.11	623.93	570.11	565.11	NP	0.00	14.21	12.39	609.72	-0.77	44.61	Yes	
MWM-7D	5/5/2013	622.11	623.93	570.11	565.11	NP	0.00	12.88	11.06	611.05	1.33	45.94	Yes	
MWM-7D	10/1/2013	622.11	623.93	570.11	565.11	NP	0.00	12.84	11.02	611.09	0.04	45.98	Yes	
MWM-7D	5/21/2014	622.11	623.93	570.11	565.11	NP	0.00	10.71	8.89	613.22	2.13	48.11	Yes	
MWM-7D	10/30/2014	622.11	623.93	570.11	565.11	NP	0.00	11.28	9.46	612.65	-0.57	47.54	Yes	
MWM-7D	5/5/2015	622.11	623.93	570.11	565.11	NP	0.00	12.39	10.57	611.54	-1.11	46.43	Yes	
MWM-7D	10/6/2015	622.11	623.93	570.11	565.11	NP	0.00	11.20	9.38	612.73	1.19	47.62	Yes	
MWM-7D	5/23/2016	622.11	623.93	570.11	565.11	NP	0.00	10.17	8.35	613.76	1.03	48.65	Yes	
MWM-7D	10/3/2016	622.11	623.93	570.11	565.11	NP	0.00	10.98	9.16	612.95	-0.81	47.84	Yes	
MWM-7D	6/14/2017	622.11	623.93	570.11	565.11	NP	0.00	10.20	8.38	613.73	0.78	48.62	Yes	
MWM-7D	10/3/2017	622.11	623.93	570.11	565.11	NP	0.00	9.26	7.44	614.67	0.94	49.56	Yes	
MWM-7D	6/18/2018	622.11	623.93	570.11	565.11	NP	0.00	10.70	8.88	613.23	-1.44	48.12	Yes	
MWM-7D	6/27/2018	622.11	623.93	570.11	565.11	NP	0.00	10.72	8.90	613.21	-0.02	48.10	Yes	
MWM-7D	10/8/2018	622.11	623.93	570.11	565.11	NP	0.00	11.40	9.58	612.53	-0.68	47.42	Yes	
MWM-9	10/22/2003	622.08	624.40	611.08	596.50	NP	0.00	12.97	10.65	611.43	NA	14.93	Yes	
MWM-9	1/20/2004	622.08	624.40	611.08	596.50	NP	0.00	13.65	11.33	610.75	-0.68	14.25	No	
MWM-9	4/19/2004	622.08	624.40	611.08	596.50	NP	0.00	12.83	10.51	611.57	0.82	15.07	Yes	
MWM-9	7/27/2004	622.08	624.40	611.08	596.50	NP	0.00	12.02	9.70	612.38	0.81	15.88	Yes	
MWM-9	11/16/2004	Well Abandoned due to Hallett Dock Construction												
MWM-9R S	7/31/2009	625.43	627.59	616.43	601.43		0.00							
MWM-9R S	10/11/2009	625.43	627.59	616.43	601.43	NP	0.00	14.82	12.66	612.77	NA	11.34	No	
MWM-9R S	4/28/2010	625.43	627.59	616.43	601.43	NP	0.00	14.89	12.73	612.70	-0.07	11.27	No	
MWM-9R S	10/25/2010	625.43	627.59	616.43	601.43	NP	0.00	13.45	11.29	614.14	1.44	12.71	No	
MWM-9R S	4/25/2011	625.43	627.59	616.43	601.43	NP	0.00	13.97	11.81	613.62	-0.52	12.19	No	
MWM-9R S	10/11/2011	625.43	627.59	616.43	601.43	NP	0.00	14.19	12.03	613.40	-0.22	11.97	No	
MWM-9R S	1/4/2012	625.43	627.59	616.43	601.43	NP	0.00	15.47	13.31	612.12	-1.28	10.69	No	
MWM-9R S	4/16/2012	625.43	627.59	616.43	601.43	NP	0.00	15.37	13.21	612.22	0.10	10.79	No	
MWM-9R S	6/28/2012	625.43	627.59	616.43	601.43	NP	0.00	12.44	10.28	615.15	2.93	13.72	No	
MWM-9R S	9/30/2012	625.43	627.59	616.43	601.43	NP	0.00	15.20	13.04	612.39	-2.76	10.96	No	
MWM-9R S	12/17/2012	625.43	627.59	616.43	601.43	NP	0.00	15.73	13.57	611.86	-0.53	10.43	No	
MWM-9R S	3/25/2013	625.43	627.59	616.43	601.43	NP	0.00	16.58	14.42	611.01	-0.85	9.58	No	

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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)	Comment
MWM-9R S	5/5/2013	625.43	627.59	616.43	601.43	NP	0.00	15.22	13.06	612.37	1.36	10.94	No	
MWM-9R S	10/1/2013	625.43	627.59	616.43	601.43	NP	0.00	15.15	12.99	612.44	0.07	11.01	No	
MWM-9R S	5/20/2014	625.43	627.59	616.43	601.43	NP	0.00	12.80	10.64	614.79	2.35	13.36	No	
MWM-9R S	10/29/2014	625.43	627.59	616.43	601.43	NP	0.00	13.45	11.29	614.14	-0.65	12.71	No	
MWM-9R S	5/6/2015	625.43	627.59	616.43	601.43	NP	0.00	14.76	12.60	612.83	-1.31	11.40	No	
MWM-9R S	10/5/2015	625.43	627.59	616.43	601.43	NP	0.00	13.32	11.16	614.27	1.44	12.84	No	
MWM-9R S	5/23/2016	625.43	627.59	616.43	601.43	NP	0.00	12.06	9.90	615.53	1.26	14.10	No	
MWM-9R S	10/3/2016	625.43	627.59	616.43	601.43	NP	0.00	13.04	10.88	614.55	-0.98	13.12	No	
MWM-9R S	6/29/2017	625.43	627.59	616.43	601.43	NP	0.00	12.44	10.28	615.15	0.60	13.72	No	
MWM-9R D	7/31/2009	625.15	626.93	573.15	568.15		0.00							
MWM-9R D	10/11/2009	625.15	626.93	573.15	568.15	NP	0.00	14.41	12.63	612.52	NA	44.37	Yes	
MWM-9R D	4/28/2010	625.15	626.93	573.15	568.15	NP	0.00	14.54	12.76	612.39	-0.13	44.24	Yes	
MWM-9R D	10/25/2010	625.15	626.93	573.15	568.15	NP	0.00	13.19	11.41	613.74	1.35	45.59	Yes	
MWM-9R D	4/25/2011	625.15	626.93	573.15	568.15	NP	0.00	13.72	11.94	613.21	-0.53	45.06	Yes	
MWM-9R D	10/11/2011	625.15	626.93	573.15	568.15	NP	0.00	13.89	12.11	613.04	-0.17	44.89	Yes	
MWM-9R D	1/4/2012	625.15	626.93	573.15	568.15	NP	0.00	15.00	13.22	611.93	-1.11	43.78	Yes	
MWM-9R D	4/16/2012	625.15	626.93	573.15	568.15	NP	0.00	15.03	13.25	611.90	-0.03	43.75	Yes	
MWM-9R D	6/28/2012	625.15	626.93	573.15	568.15	NP	0.00	12.23	10.45	614.70	2.80	46.55	Yes	
MWM-9R D	9/30/2012	625.15	626.93	573.15	568.15	NP	0.00	14.74	12.96	612.19	-2.51	44.04	Yes	
MWM-9R D	12/17/2012	625.15	626.93	573.15	568.15	NP	0.00	15.32	13.54	611.61	-0.58	43.46	Yes	
MWM-9R D	3/25/2013	625.15	626.93	573.15	568.15	NP	0.00	16.10	14.32	610.83	-0.78	42.68	Yes	
MWM-9R D	5/5/2013	625.15	626.93	573.15	568.15	NP	0.00	14.89	13.11	612.04	1.21	43.89	Yes	
MWM-9R D	10/1/2013	625.15	626.93	573.15	568.15	NP	0.00	14.79	13.01	612.14	0.10	43.99	Yes	
MWM-9R D	5/21/2014	625.15	626.93	573.15	568.15	NP	0.00	12.58	10.80	614.35	2.21	46.20	Yes	
MWM-9R D	10/30/2014	625.15	626.93	573.15	568.15	NP	0.00	13.09	11.31	613.84	-0.51	45.69	Yes	
MWM-9R D	5/5/2015	625.15	626.93	573.15	568.15	NP	0.00	14.36	12.58	612.57	-1.27	44.42	Yes	
MWM-9R D	10/7/2015	625.15	626.93	573.15	568.15	NP	0.00	13.03	11.25	613.90	1.33	45.75	Yes	
MWM-9R D	5/23/2016	625.15	626.93	573.15	568.15	NP	0.00	11.65	9.87	615.28	1.38	47.13	Yes	
MWM-9R D	10/3/2016	625.15	626.93	573.15	568.15	NP	0.00	12.61	10.83	614.32	-0.96	46.17	Yes	
MWM-9R D	6/14/2017	625.15	626.93	573.15	568.15	NP	0.00	11.60	9.82	615.33	1.01	47.18	Yes	
MWM-9R D	10/3/2017	625.15	626.93	573.15	568.15	NP	0.00	10.85	9.07	616.08	0.75	47.93	Yes	
MWM-9R D	6/18/2018	625.15	626.93	573.15	568.15	NP	0.00	12.37	10.59	614.56	-1.52	46.41	Yes	
MWM-9R D	6/27/2018	625.15	626.93	573.15	568.15	NP	0.00	12.34	10.56	614.59	0.03	46.44	Yes	
MWM-9R D	10/8/2018	625.15	626.93	573.15	568.15	NP	0.00	13.07	11.29	613.86	-0.73	45.71	Yes	
MWM-10 S	7/31/2009	618.59	620.51	609.59	594.59		0.00							
MWM-10 S	10/11/2009	618.59	620.51	609.59	594.59	NP	0.00	3.93	2.01	616.58	NA	21.99	Yes	
MWM-10 S	4/28/2010	618.59	620.51	609.59	594.59	NP	0.00	3.70	1.78	616.81	0.23	22.22	Yes	

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MWM-10 S	10/25/2010	618.59	620.51	609.59	594.59	NP	0.00	3.17	1.25	617.34	0.53	22.75	Yes	
MWM-10 S	4/25/2011	618.59	620.51	609.59	594.59	NP	0.00	3.27	1.35	617.24	-0.10	22.65	Yes	
MWM-10 S	10/11/2011	618.59	620.51	609.59	594.59	NP	0.00	4.52	2.60	615.99	-1.25	21.40	Yes	
MWM-10 S	1/4/2012	618.59	620.51	609.59	594.59	NP	0.00	5.75	3.83	614.76	-1.23	20.17	Yes	
MWM-10 S	4/16/2012	618.59	620.51	609.59	594.59	NP	0.00	3.51	1.59	617.00	2.24	22.41	Yes	
MWM-10 S	6/28/2012	618.59	620.51	609.59	594.59	NP	0.00	3.53	1.61	616.98	-0.02	22.39	Yes	
MWM-10 S	9/30/2012	618.59	620.51	609.59	594.59	NP	0.00	6.76	4.84	613.75	-3.23	19.16	Yes	
MWM-10 S	12/17/2012	618.59	620.51	609.59	594.59	NP	0.00	5.01	3.09	615.50	1.75	20.91	Yes	
MWM-10 S	3/25/2013	618.59	620.51	609.59	594.59	NP	0.00	6.99	5.07	613.52	-1.98	18.93	Yes	
MWM-10 S	5/5/2013	618.59	620.51	609.59	594.59	NP	0.00	3.43	1.51	617.08	3.56	22.49	Yes	
MWM-10 S	10/1/2013	618.59	620.51	609.59	594.59	NP	0.00	4.88	2.96	615.63	-1.45	21.04	Yes	
MWM-10 S	5/20/2014	618.59	620.51	609.59	594.59	NP	0.00	3.15	1.23	617.36	1.73	22.77	Yes	
MWM-10 S	10/29/2014	618.59	620.51	609.59	594.59	NP	0.00	4.19	2.27	616.32	-1.04	21.73	Yes	
MWM-10 S	5/6/2015	618.59	620.51	609.59	594.59	NP	0.00	4.00	2.08	616.51	0.19	21.92	Yes	
MWM-10 S	10/5/2015	618.59	620.51	609.59	594.59	NP	0.00	4.05	2.13	616.46	-0.05	21.87	Yes	
MWM-10 S	5/23/2016	618.59	620.51	609.59	594.59	NP	0.00	4.03	2.11	616.48	0.02	21.89	Yes	
MWM-10 S	10/3/2016	618.59	620.51	609.59	594.59	NP	0.00	4.56	2.64	615.95	-0.53	21.36	Yes	
MWM-10 S	6/29/2017	618.59	620.51	609.59	594.59	NP	0.00	9.28	7.36	611.23	-4.72	16.64	Yes	
MWM-10 D	7/31/2009	618.86	620.82	566.87	561.87		0.00							
MWM-10 D	10/11/2009	618.86	620.82	566.87	561.87	NP	0.00	10.89	8.94	609.93	NA	48.06	Yes	
MWM-10 D	4/28/2010	618.86	620.82	566.87	561.87	NP	0.00	10.99	9.04	609.83	-0.10	47.96	Yes	
MWM-10 D	10/25/2010	618.86	620.82	566.87	561.87	NP	0.00	9.92	7.97	610.90	1.07	49.03	Yes	
MWM-10 D	4/25/2011	618.86	620.82	566.87	561.87	NP	0.00	10.32	8.37	610.50	-0.40	48.63	Yes	
MWM-10 D	10/11/2011	618.86	620.82	566.87	561.87	NP	0.00	10.57	8.62	610.25	-0.25	48.38	Yes	
MWM-10 D	1/4/2012	618.86	620.82	566.87	561.87	NP	0.00	11.63	9.68	609.19	-1.06	47.32	Yes	
MWM-10 D	4/16/2012	618.86	620.82	566.87	561.87	NP	0.00	11.22	9.27	609.60	0.41	47.73	Yes	
MWM-10 D	6/28/2012	618.86	620.82	566.87	561.87	NP	0.00	8.93	6.98	611.89	2.29	50.02	Yes	
MWM-10 D	9/30/2012	618.86	620.82	566.87	561.87	NP	0.00	11.41	9.46	609.41	-2.48	47.54	Yes	
MWM-10 D	12/17/2012	618.86	620.82	566.87	561.87	NP	0.00	11.77	9.82	609.05	-0.36	47.18	Yes	
MWM-10 D	3/25/2013	618.86	620.82	566.87	561.87	NP	0.00	12.46	10.51	608.36	-0.69	46.49	Yes	
MWM-10 D	5/5/2013	618.86	620.82	566.87	561.87	NP	0.00	11.02	9.07	609.80	1.44	47.93	Yes	
MWM-10 D	10/1/2013	618.86	620.82	566.87	561.87	NP	0.00	11.21	9.26	609.61	-0.19	47.74	Yes	
MWM-10 D	5/21/2014	618.86	620.82	566.87	561.87	NP	0.00	9.04	7.09	611.78	2.17	49.91	Yes	
MWM-10 D	10/30/2014	618.86	620.82	566.87	561.87	NP	0.00	9.66	7.71	611.16	-0.62	49.29	Yes	
MWM-10 D	5/5/2015	618.86	620.82	566.87	561.87	NP	0.00	10.64	8.69	610.18	-0.98	48.31	Yes	
MWM-10 D	10/6/2015	618.86	620.82	566.87	561.87	NP	0.00	9.50	7.55	611.32	1.14	49.45	Yes	
MWM-10 D	5/23/2016	618.86	620.82	566.87	561.87	NP	0.00	8.74	6.79	612.08	0.76	50.21	Yes	
MWM-10 D	10/3/2016	618.86	620.82	566.87	561.87	NP	0.00	9.38	7.43	611.44	-0.64	49.57	Yes	

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MWM-10 D	6/14/2017	618.86	620.82	566.87	561.87	NP	0.00	8.65	6.70	612.17	0.73	50.30	Yes	
MWM-10 D	10/3/2017	618.86	620.82	566.87	561.87	NP	0.00	7.78	5.83	613.04	0.87	51.17	Yes	
MWM-10 D	6/18/2018	618.86	620.82	566.87	561.87	NP	0.00	8.90	6.95	611.92	-1.12	50.05	Yes	
MWM-10 D	6/27/2018	618.86	620.82	566.87	561.87	NP	0.00	8.99	7.04	611.83	-0.09	49.96	Yes	
MWM-10 D	10/8/2018	618.86	620.82	566.87	561.87	NP	0.00	9.58	7.63	611.24	-0.59	49.37	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	
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	

Table 4
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)	Comment
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	-0.28	#VALUE!	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	
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	

Table 4
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)	Comment
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	26.85	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-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	
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	

Table 4
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)	Comment
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	
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	

Table 4
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)	Comment
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-32	08/06/91	631.30	634.08	617.18	607.18	15.43	0.55	15.98	12.77	618.53	NA	11.47	Yes	
MW-32	09/04/91	631.30	634.08	617.18	607.18	15.91	0.25	16.16	13.19	618.12	-0.42	10.99	Yes	
MW-32	10/08/91	631.30	634.08	617.18	607.18	15.26	0.22	15.48	12.53	618.77	0.66	11.64	Yes	
MW-32	11/08/91	631.30	634.08	617.18	607.18	15.92	0.17	16.09	13.18	618.12	-0.65	10.98	Yes	
MW-32	12/03/91	631.30	634.08	617.18	607.18	13.97	0.05	14.02	11.20	620.10	1.98	12.93	Yes	
MW-32	01/07/92	631.30	634.08	617.18	607.18	16.06	0.28	16.34	13.34	617.96	-2.14	10.84	Yes	
MW-32	02/04/92	631.30	634.08	617.18	607.18	16.95	0.65	17.60	14.32	616.99	-0.97	9.95	No	
MW-32	03/03/92	631.30	634.08	617.18	607.18	17.40	0.92	18.32	14.83	616.48	-0.51	9.50	No	
MW-32	09/24/92	631.30	634.08	617.18	607.18	15.10	0.70	15.80	12.48	618.83	2.35	11.80	Yes	
MW-32	10/14/92	631.30	634.08	617.18	607.18	16.56	0.06	16.62	13.79	617.51	-1.32	10.34	Yes	
MW-32	06/25/93	631.30	634.08	617.18	607.18	12.24	0.00	12.24	9.46	621.84	4.33	14.66	Yes	
MW-32	10/28/93	631.30	634.08	617.18	607.18	17.15	0.66	17.81	14.52	616.79	-5.05	9.75	No	
MW-32	01/29/94	631.30	634.08	617.18	607.18	17.66	1.44	19.10	15.21	616.11	-0.68	9.24	No	
MW-32	04/27/94	631.30	634.08	617.18	607.18	16.73	0.00	16.73	13.95	617.35	1.24	10.17	Yes	
MW-32	07/21/94	631.30	634.08	617.18	607.18	15.92	1.83	17.75	13.55	617.77	0.42	10.98	Yes	
MW-32	10/25/94	631.30	634.08	617.18	607.18	16.61	1.12	17.73	14.08	617.23	-0.54	10.29	Yes	
MW-32	02/01/95	631.30	634.08	617.18	607.18	17.82	2.61	20.43	15.63	615.71	-1.53	9.08	No	
MW-32	04/04/95	631.30	634.08	617.18	607.18	18.31	1.74	20.05	15.92	615.40	-0.31	8.59	No	
MW-32	07/12/95	631.30	634.08	617.18	607.18	17.38	1.60	18.98	14.96	616.36	0.96	9.52	No	
MW-32	11/13/95	631.30	634.08	617.18	607.18	15.58	1.72	17.30	13.19	618.13	1.77	11.32	Yes	
MW-32	03/13/96	631.30	634.08	617.18	607.18	18.00	2.59	20.59	15.80	615.53	-2.60	8.90	No	
MW-32	10/08/96	631.30	634.08	617.18	607.18	14.47	3.21	17.68	12.42	618.93	3.40	12.43	Yes	
MW-32	04/29/97	631.30	634.08	617.18	607.18	12.91	4.44	17.35	11.13	620.23	1.30	13.99	Yes	
MW-32	06/10/97	631.30	634.08	617.18	607.18	15.14	2.25	17.39	12.87	618.46	-1.76	11.76	Yes	
MW-32	11/03/98	631.30	634.08	617.18	607.18	18.24	2.96	21.20	16.13	615.21	-3.25	8.66	No	
MW-32	03/02/99	631.30	634.08	617.18	607.18	18.44	2.81	21.25	16.29	615.04	-0.17	8.46	No	
MW-32	10/07/99	631.30	634.08	617.18	607.18	14.22	3.34	17.56	12.19	619.15	4.11	12.68	Yes	
MW-32	11/09/99	631.30	634.08	617.18	607.18	13.85	3.81	17.66	11.93	619.42	0.27	13.05	Yes	
MW-32	12/21/99	631.30	634.08	617.18	607.18	16.52	1.23	17.75	14.02	617.30	-2.12	10.38	Yes	
MW-32	01/27/00	631.30	634.08	617.18	607.18	17.22	2.78	20.00	15.07	616.27	-1.03	9.68	No	
MW-32	02/24/00	631.30	634.08	617.18	607.18	17.70	3.05	20.75	15.61	615.73	-0.54	9.20	No	
MW-32	03/31/00	631.30	634.08	617.18	607.18	17.44	2.24	19.68	15.17	616.16	0.43	9.46	No	
MW-32	04/26/00	631.30	634.08	617.18	607.18	17.27	0.90	18.17	14.69	616.62	0.45	9.63	No	
MW-32	05/31/00	631.30	634.08	617.18	607.18	17.28	0.98	18.26	14.72	616.59	-0.03	9.62	No	
MW-32	06/29/00	631.30	634.08	617.18	607.18	17.10	0.65	17.75	14.47	616.84	0.25	9.80	No	
MW-32	07/26/00	631.30	634.08	617.18	607.18	17.39	1.82	19.21	15.02	616.30	-0.54	9.51	No	
MW-32	08/18/00	631.30	634.08	617.18	607.18	17.58	1.76	19.34	15.20	616.13	-0.18	9.32	No	
MW-32	09/27/00	631.30	634.08	617.18	607.18	17.90	3.02	20.92	15.80	615.54	-0.59	9.00	No	

Table 4
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)	Comment
MW-32	10/11/00	631.30	634.08	617.18	607.18	17.00	4.25	21.25	15.18	616.18	0.64	9.90	No	
MW-32	12/12/00	631.30	634.08	617.18	607.18	17.89	2.13	20.02	15.59	615.74	-0.44	9.01	No	
MW-32	01/18/01	631.30	634.08	617.18	607.18	18.47	2.14	20.61	16.17	615.16	-0.58	8.43	No	
MW-32	04/24/01	631.30	634.08	617.18	607.18	17.66	2.33	19.99	15.41	615.92	0.77	9.24	No	
MW-32	05/23/01	631.30	634.08	617.18	607.18	16.38	0.60	16.98	13.74	617.57	1.65	10.52	Yes	
MW-32	06/19/01	631.30	634.08	617.18	607.18	16.41	1.11	17.52	13.88	617.43	-0.14	10.49	Yes	
MW-32	07/26/01	631.30	634.08	617.18	607.18	17.32	2.56	19.88	15.12	616.22	-1.22	9.58	No	
MW-32	08/31/01	631.30	634.08	617.18	607.18	17.64	2.84	20.48	15.50	615.84	-0.38	9.26	No	
MW-32	09/26/01	631.30	634.08	617.18	607.18	17.88	2.98	20.86	15.77	615.57	-0.27	9.02	No	
MW-32	10/24/01	631.30	634.08	617.18	607.18	18.00	3.11	21.11	15.92	615.42	-0.15	8.90	No	
MW-32	12/20/01	631.30	634.08	617.18	607.18	18.22	3.15	21.37	16.15	615.19	-0.23	8.68	No	
MW-32	01/22/02	631.30	634.08	617.18	607.18	17.45	4.08	21.53	15.59	615.76	0.57	9.45	No	
MW-32	02/26/02	631.30	634.08	617.18	607.18	19.91	1.77	21.68	17.53	613.79	-1.97	6.99	No	
MW-32	03/20/02	631.30	634.08	617.18	607.18	19.09	2.86	21.95	16.96	614.38	-1.38	7.81	No	
MW-32	04/24/02	631.30	634.08	617.18	607.18	18.42	2.63	21.05	16.23	615.10	0.72	8.48	No	
MW-32	05/15/02	631.30	634.08	617.18	607.18	17.75	2.13	19.88	15.45	615.88	0.78	9.15	No	
MW-32	06/27/02	631.30	634.08	617.18	607.18	17.63	2.00	19.63	15.30	616.03	0.15	9.27	No	
MW-32	07/25/02	631.30	634.08	617.18	607.18	17.68	1.64	19.32	15.27	616.05	0.03	9.22	No	
MW-32	08/20/02	631.30	634.08	617.18	607.18	17.52	1.39	18.91	15.05	616.26	0.21	9.38	No	
MW-32	09/30/02	631.30	634.08	617.18	607.18	17.28	0.46	17.74	14.60	616.70	0.44	9.62	No	
MW-32	11/05/02	631.30	634.08	617.18	607.18	16.75	0.80	17.55	14.15	617.16	0.46	10.15	No	
MW-32	12/23/02	631.30	634.08	617.18	607.18	17.75	2.97	20.72	15.64	615.70	-1.46	9.15	No	
MW-32	01/28/03	631.30	634.08	617.18	607.18	18.37	3.11	21.48	16.29	615.05	-0.65	8.53	No	
MW-32	02/19/03	631.30	634.08	617.18	607.18	18.63	3.13	21.76	16.56	614.78	-0.26	8.27	No	
MW-32	04/17/03	631.30	634.08	617.18	607.18	19.22	3.06	22.28	17.13	614.21	-0.58	7.68	No	
MW-32	05/15/03	631.30	634.08	617.18	607.18	19.11	3.04	22.15	17.02	614.32	0.11	7.79	No	
MW-32	06/10/03	631.30	634.08	617.18	607.18	18.68	2.44	21.12	16.45	614.88	0.56	8.22	No	
MW-32	10/23/03	631.30	634.08	617.18	607.18	19.15	2.95	22.10	17.04	614.30	-0.58	7.75	No	
MW-32	12/03/03	631.30	634.08	617.18	607.18	19.28	3.13	22.41	17.21	614.13	-0.17	7.62	No	
MW-32	04/19/04	631.31	634.31	617.18	607.18	19.73	2.97	22.70	17.40	613.95	-0.19	7.40	No	
MW-32	07/28/04	631.31	634.31	617.18	607.18	18.48	2.12	20.60	15.96	615.38	1.43	8.65	No	
MW-32	11/15/04	631.31	634.31	617.18	607.18	17.17	0.41	17.58	14.26	617.05	1.67	9.96	No	
MW-32	04/18/05	631.31	634.31	617.18	607.18	17.88	1.20	19.08	15.15	616.18	-0.88	9.25	No	
MW-32	09/09/05	631.31	634.31	617.18	607.18	20.37	1.70	22.07	17.75	613.58	-2.60	6.76	No	
MW-32	10/11/05	631.31	634.31	617.18	607.18	17.51	1.07	18.58	14.75	616.57	2.99	9.62	No	
MW-32	05/23/06	631.31	634.31	617.18	607.18	16.47	0.64	17.11	13.61	617.70	1.13	10.66	Yes	
MW-32	10/16/06	631.31	634.31	617.18	607.18	18.36	2.75	21.11	15.98	615.37	-2.34	8.77	No	
MW-32	04/23/07	631.31	634.31	617.18	607.18	19.25	2.78	22.03	16.88	614.47	-0.90	7.88	No	
MW-32	09/25/07	631.31	634.14	617.18	607.18	19.22	2.98	22.20	17.06	614.29	-0.18	7.74	No	
MW-32	05/01/08	631.31	634.14	617.18	607.18	NP	0.00	17.39	14.56	616.75	2.46	9.57	No	
MW-32	10/20/08	631.31	634.14	617.18	607.18	15.92	1.40	17.32	13.41	617.92	1.17	11.04	Yes	
MW-32	04/18/09	631.31	634.14	617.18	607.18	NP	0.00	17.35	14.52	616.79	-1.13	9.61	No	
MW-32	08/31/11	631.31	634.14	617.18	607.18	15.63	1.79	17.42	13.20	618.13	1.34	11.33	Yes	
MW-32	10/10/11	631.31	634.14	617.18	607.18	17.22	0.81	18.03	14.57	616.75	-1.38	9.74	No	

Table 4
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)	Comment
MW-32	01/04/12	631.31	634.14	617.18	607.18	18.26	2.94	21.20	16.09	615.26	-1.49	8.70	No	
MW-32	04/05/12	631.31	634.14	617.18	607.18	19.08	2.97	22.05	16.92	614.43	-0.83	7.88	No	
MW-32	04/05/12	631.31	634.14	617.18	607.18	19.47	1.13	20.60	16.90	614.43	0.00	7.49	No	
MW-32	04/16/12	631.31	634.14	617.18	607.18	19.08	2.95	22.03	16.92	614.43	0.00	7.88	No	
MW-32	06/26/12	631.31	634.14	617.18	607.18	14.99	2.23	17.22	12.66	618.68	4.24	11.97	Yes	
MW-32	09/28/12	631.31	634.14	617.18	607.18	18.15	2.24	20.39	15.83	615.51	-3.16	8.81	No	
MW-32	09/28/12	631.31	634.14	617.18	607.18	18.45	0.79	19.24	15.80	615.52	0.01	8.51	No	
MW-32	09/30/12	631.31	634.14	617.18	607.18	18.11	2.23	20.34	15.78	615.56	0.03	8.85	No	
MW-32	11/21/12	631.31	634.14	617.18	607.18	18.57	2.83	21.40	16.38	614.97	-0.59	8.39	No	
MW-32	12/17/12	631.31	634.14	617.18	607.18	18.78	2.95	21.73	16.62	614.73	-0.24	8.18	No	
MW-32	03/25/13	631.31	634.14	617.18	607.18	19.52	3.42	22.94	17.46	613.89	-0.84	7.44	No	
MW-32	05/05/13	631.31	634.14	617.18	607.18	19.32	2.75	22.07	17.11	614.24	0.34	7.64	No	
MW-32	10/03/13	631.31	634.14	617.18	607.18	18.75	2.28	21.03	16.43	614.91	0.67	8.21	No	
MW-32	05/22/14	631.31	634.14	617.18	607.18	16.34	0.85	17.19	13.70	617.62	2.71	10.62	Yes	
MW-32	06/18/14	631.31	634.14	617.18	607.18	15.61	1.96	17.57	13.22	618.11	0.49	11.35	Yes	
MW-32	10/31/14	631.31	634.14	617.18	607.18	17.00	0.25	17.25	14.23	617.09	-1.03	9.96	No	
MW-32	05/06/15	631.31	634.14	617.18	607.18	18.32	2.44	20.76	16.04	615.30	-1.79	8.64	No	
MW-32	09/10/15	631.31	634.14	617.18	607.18	17.73	1.07	18.80	15.14	616.18	0.88	9.23	No	
MW-32	09/14/15	631.31	634.14	617.18	607.18	17.66	0.65	18.31	14.98	616.34	0.16	9.30	No	
MW-32	10/01/15	631.31	634.14	617.18	607.18	16.92	0.21	17.13	14.14	617.18	0.83	10.04	No	
MW-32	10/05/15	631.31	634.14	617.18	607.18	16.73	0.40	17.13	13.99	617.33	0.15	10.23	Yes	
MW-32	10/29/15	631.31	634.14	617.18	607.18	17.17	0.37	17.54	14.42	616.89	-0.43	9.79	No	
MW-32	04/11/16	631.31	634.14	617.18	607.18	13.86	3.71	17.57	11.87	619.49	2.60	13.10	Yes	
MW-32	05/23/16							pump obstruction						
MW-32	07/15/16	631.31	634.14	617.18	607.18	14.11	3.24	17.35	12.01	619.34	-0.15	12.85	Yes	
MW-32	07/21/16	631.31	634.14	617.18	607.18	13.61	3.71	17.32	11.62	619.74	0.40	13.35	Yes	
MW-32	07/25/16	631.31	634.14	617.18	607.18	14.56	1.69	16.25	12.11	619.22	-0.52	12.40	Yes	
MW-32	08/01/16	631.31	634.14	617.18	607.18	15.02	2.12	17.14	12.67	618.67	-0.55	11.94	Yes	
MW-32	8/9/2016	631.31	634.14	617.18	607.18	15.22	1.98	17.20	12.84	618.50	-0.17	11.74	Yes	
MW-32	08/18/16	631.31	634.14	617.18	607.18	15.55	1.60	17.15	13.08	618.25	-0.25	11.41	Yes	
MW-32	08/26/16	631.31	634.14	617.18	607.18	16.10	0.99	17.09	13.49	617.83	-0.42	10.86	Yes	
MW-32	10/03/16	631.31	634.14	617.18	607.18	16.16	0.94	17.10	13.54	617.78	-0.05	10.80	Yes	
MW-32	05/02/17	631.31	634.14	617.18	607.18	14.86	2.38	17.24	12.57	618.77	0.99	12.10	Yes	
MW-32	05/31/17	631.31	634.14	617.18	607.18	12.56	4.22	16.78	10.68	620.68	1.91	14.40	Yes	
MW-32	06/14/17	631.31	634.14	617.18	607.18	14.40	1.58	15.98	11.93	619.40	-1.28	12.56	Yes	
MW-32	06/29/17	631.31	634.14	617.18	607.18	15.27	1.57	16.84	12.79	618.54	-0.87	11.69	Yes	
MW-32	7/7/2017	631.31	634.14	617.18	607.18	14.84	1.87	16.71	12.43	618.90	0.37	12.12	Yes	
MW-32	07/12/17	631.31	634.14	617.18	607.18	14.40	2.28	16.68	12.08	619.26	0.35	12.56	Yes	
MW-32	7/19/2017	631.31	634.14	617.18	607.18	14.33	2.36	16.69	12.03	619.31	0.05	12.63	Yes	
MW-32	07/26/17	631.31	634.14	617.18	607.18	14.37	1.84	16.21	11.96	619.38	0.07	12.59	Yes	
MW-32	7/27/2017	631.31	634.14	617.18	607.18	14.53	1.83	16.36	12.11	619.22	-0.16	12.43	Yes	
MW-32	08/04/17	631.31	634.14	617.18	607.18	15.01	1.49	16.50	12.52	618.81	-0.41	11.95	Yes	
MW-32	8/8/2017	631.31	634.14	617.18	607.18	15.10	1.30	16.40	12.56	618.76	-0.05	11.86	Yes	

Table 4
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)	Comment
MW-32	08/15/17	631.31	634.14	617.18	607.18	14.28	1.34	15.62	11.75	619.58	0.81	12.68	Yes	
MW-32	8/30/2017	631.31	634.14	617.18	607.18	12.12	3.80	15.92	10.15	621.21	1.64	14.84	Yes	
MW-32	09/07/17	631.31	634.14	617.18	607.18	12.06	2.24	14.30	9.74	621.60	0.39	14.90	Yes	
MW-32	9/19/2017	631.31	634.14	617.18	607.18	14.05	1.12	15.17	11.47	619.85	-1.75	12.91	Yes	
MW-32	09/27/17	631.31	634.14	617.18	607.18	14.09	1.36	15.45	11.57	619.76	-0.09	12.87	Yes	
MW-32	10/12/2017	631.31	634.14	617.18	607.18	12.22	1.27	13.49	9.68	621.65	1.89	14.74	Yes	
MW-32	10/26/17	631.31	634.14	617.18	607.18	12.94	0.55	13.49	10.23	621.08	-0.57	14.02	Yes	
MW-32	05/14/18	631.31	634.14	617.18	607.18	NP	0.00	17.50	14.67	616.64	-4.44	9.46	No	Pump not re-installed into well
MW-32	05/23/18	631.31	634.14	617.18	607.18	17.59	0.22	17.81	14.81	616.50	-0.14	9.37	No	
MW-32	05/24/18	631.31	634.14	617.18	607.18	17.58	0.12	17.70	14.78	616.53	0.03	9.38	No	
MW-32	05/30/18	631.31	634.14	617.18	607.18	NP	0.00	17.25	14.42	616.89	0.36	9.71	No	
MW-32	07/03/18	631.31	634.14	617.18	607.18	15.99	0.96	16.95	13.38	617.95	1.06	10.97	Yes	
MW-32	07/10/18	631.31	634.14	617.18	607.18	16.86	1.05	17.91	14.27	617.06	-0.89	10.10	No	
MW-32	07/25/18	631.31	634.14	617.18	607.18	16.59	0.46	17.05	13.86	617.45	0.40	10.37	Yes	
MW-32	08/08/18	631.31	634.14	617.18	607.18	17.10	0.10	17.20	14.29	617.02	-0.43	9.86	No	
MW-32	08/16/18	631.31	634.14	617.18	607.18	17.35	0.50	17.85	14.63	616.68	-0.33	9.61	No	
MW-32	10/02/18	631.31	634.14	617.18	607.18	NP	0.00	17.12	14.29	617.02	0.34	9.84	No	
MW-32	10/16/18	631.31	634.14	617.18	607.18	15.70	1.12	16.82	13.12	618.20	1.18	11.26	Yes	
MW-32	10/22/18	631.31	634.14	617.18	607.18	15.71	1.20	16.91	13.15	618.18	-0.03	11.25	Yes	
MW-32	10/29/18	631.31	634.14	617.18	607.18	15.85	1.01	16.86	13.25	618.08	-0.10	11.11	Yes	
MW-36S	7/26/2011	617.30	619.32	607.30	592.30	NP	0.00	7.71	5.69	611.61	NA	19.31	Yes	
MW-36S	10/11/2011	617.30	619.32	607.30	592.30	NP	0.00	8.74	6.72	610.58	-1.03	18.28	Yes	
MW-36S	1/4/2012	617.30	619.32	607.30	592.30	NP	0.00	9.59	7.57	609.73	-0.85	17.43	Yes	
MW-36S	4/16/2012	617.30	619.32	607.30	592.30	NP	0.00	8.33	6.31	610.99	1.26	18.69	Yes	
MW-36S	6/28/2012	617.30	619.32	607.30	592.30	NP	0.00	7.34	5.32	611.98	0.99	19.68	Yes	
MW-36S	9/30/2012	617.30	619.32	607.30	592.30	NP	0.00	9.58	7.56	609.74	-2.24	17.44	Yes	
MW-36S	12/17/2012	617.30	619.32	607.30	592.30	NP	0.00	9.62	7.60	609.70	-0.04	17.40	Yes	
MW-36S	3/25/2013	617.30	619.32	607.30	592.30	NP	0.00	10.39	8.37	608.93	-0.77	16.63	Yes	
MW-36S	5/5/2013	617.30	619.32	607.30	592.30	NP	0.00	8.68	6.66	610.64	1.71	18.34	Yes	
MW-36S	10/3/2013	617.30	619.32	607.30	592.30	NP	0.00	9.41	7.39	609.91	-0.73	17.61	Yes	
MW-36S	5/20/2014	617.30	619.32	607.30	592.30	NP	0.00	7.08	5.06	612.24	2.33	19.94	Yes	
MW-36S	10/31/2014	617.30	619.32	607.30	592.30	NP	0.00	8.08	6.06	611.24	-1.00	18.94	Yes	
MW-36S	5/4/2015	617.30	619.32	607.30	592.30	NP	0.00	8.52	6.50	610.80	-0.44	18.50	Yes	
MW-36S	10/5/2015	617.30	619.32	607.30	592.30	NP	0.00	7.69	5.67	611.63	0.83	19.33	Yes	
MW-36S	5/23/2016	617.30	619.32	607.30	592.30	NP	0.00	7.31	5.29	612.01	0.38	19.71	Yes	
MW-36S	10/3/2016	617.30	619.32	607.30	592.30	NP	0.00	7.78	5.76	611.54	-0.47	19.24	Yes	
MW-36S	10/8/2018	617.30	619.32	607.30	592.30	NP	0.00	7.61	5.59	611.71	0.17	19.41	Yes	
MW-36D	7/26/2011	617.00	619.07	567.00	562.00	NP	0.00	7.85	5.78	611.22	NA	49.22	Yes	
MW-36D	10/11/2011	617.00	619.07	567.00	562.00	NP	0.00	9.03	6.96	610.04	-1.18	48.04	Yes	

Table 4
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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)	Comment
MW-36D	1/4/2012	617.00	619.07	567.00	562.00	NP	0.00	9.89	7.82	609.18	-0.86	47.18	Yes	
MW-36D	4/16/2012	617.00	619.07	567.00	562.00	NP	0.00	9.65	7.58	609.42	0.24	47.42	Yes	
MW-36D	6/28/2012	617.00	619.07	567.00	562.00	NP	0.00	7.58	5.51	611.49	2.07	49.49	Yes	
MW-36D	9/30/2012	617.00	619.07	567.00	562.00	NP	0.00	9.69	7.62	609.38	-2.11	47.38	Yes	
MW-36D	12/17/2012	617.00	619.07	567.00	562.00	NP	0.00	10.02	7.95	609.05	-0.33	47.05	Yes	
MW-36D	3/25/2013	617.00	619.07	567.00	562.00	NP	0.00	10.72	8.65	608.35	-0.70	46.35	Yes	
MW-36D	5/5/2013	617.00	619.07	567.00	562.00	NP	0.00	9.54	7.47	609.53	1.18	47.53	Yes	
MW-36D	10/1/2013	617.00	619.07	567.00	562.00	NP	0.00	9.52	7.45	609.55	0.02	47.55	Yes	
MW-36D	5/21/2014	617.00	619.07	567.00	562.00	NP	0.00	7.54	5.47	611.53	1.98	49.53	Yes	
MW-36D	10/30/2014	617.00	619.07	567.00	562.00	NP	0.00	8.02	5.95	611.05	-0.48	49.05	Yes	
MW-36D	5/5/2015	617.00	619.07	567.00	562.00	NP	0.00	8.99	6.92	610.08	-0.97	48.08	Yes	
MW-36D	10/7/2015	617.00	619.07	567.00	562.00	NP	0.00	7.96	5.89	611.11	1.03	49.11	Yes	
MW-36D	5/23/2016	617.00	619.07	567.00	562.00	NP	0.00	7.20	5.13	611.87	0.76	49.87	Yes	
MW-36D	10/3/2016	617.00	619.07	567.00	562.00	NP	0.00	7.69	5.62	611.38	-0.49	49.38	Yes	
MW-36D	6/14/2017	617.00	619.07	567.00	562.00	NP	0.00	7.07	5.00	612.00	0.62	50.00	Yes	
MW-36D	10/3/2017	617.00	619.07	567.00	562.00	NP	0.00	6.20	4.13	612.87	0.87	50.87	Yes	
MW-36D	6/18/2018	617.00	619.07	567.00	562.00	NP	0.00	7.35	5.28	611.72	-1.15	49.72	Yes	
MW-36D	6/27/2018	617.00	619.07	567.00	562.00	NP	0.00	7.45	5.38	611.62	-0.10	49.62	Yes	
MW-36D	10/8/2018	617.00	619.07	567.00	562.00	NP	0.00	7.84	5.77	611.23	-0.39	49.23	Yes	
MW-36DD	10/10/2011	616.80	618.81	538.80	536.80	NP	0.00	8.52	6.51	610.29	NA	73.49	Yes	
MW-36DD	1/4/2012	616.80	618.81	538.80	536.80	NP	0.00	9.58	7.57	609.23	-1.06	72.43	Yes	
MW-36DD	4/16/2012	616.80	618.81	538.80	536.80	NP	0.00	9.41	7.40	609.40	0.17	72.60	Yes	
MW-36DD	6/28/2012	616.80	618.81	538.80	536.80	NP	0.00	7.24	5.23	611.57	2.17	74.77	Yes	
MW-36DD	9/30/2012	616.80	618.81	538.80	536.80	NP	0.00	9.34	7.33	609.47	-2.10	72.67	Yes	
MW-36DD	12/17/2012	616.80	618.81	538.80	536.80	NP	0.00	9.73	7.72	609.08	-0.39	72.28	Yes	
MW-36DD	3/25/2013	616.80	618.81	538.80	536.80	NP	0.00	10.40	8.39	608.41	-0.67	71.61	Yes	
MW-36DD	5/5/2013	616.80	618.81	538.80	536.80	NP	0.00	9.27	7.26	609.54	1.13	72.74	Yes	
MW-36DD	10/1/2013	616.80	618.81	538.80	536.80	NP	0.00	9.01	7.00	609.80	0.26	73.00	Yes	
MW-36DD	5/20/2014	616.80	618.81	538.80	536.80	NP	0.00	7.34	5.33	611.47	1.67	74.67	Yes	
MW-36DD	10/29/2014	616.80	618.81	538.80	536.80	NP	0.00	7.65	5.64	611.16	-0.31	74.36	Yes	
MW-36DD	5/4/2015	616.80	618.81	538.80	536.80	NP	0.00	8.72	6.71	610.09	-1.07	73.29	Yes	
MW-36DD	10/5/2015	616.80	618.81	538.80	536.80	NP	0.00	7.57	5.56	611.24	1.15	74.44	Yes	
MW-36DD	5/23/2016	616.80	618.81	538.80	536.80	NP	0.00	6.84	4.83	611.97	0.73	75.17	Yes	
MW-36DD	10/3/2016	616.80	618.81	538.80	536.80	NP	0.00	7.33	5.32	611.48	-0.49	74.68	Yes	
MW-36DD	6/18/2018	616.80	618.81	538.80	536.80	NP	0.00	7.08	5.07	611.73	0.25	74.93	Yes	
MW-36DD	10/8/2018	616.80	618.81	538.80	536.80	NP	0.00	7.55	5.54	611.26	-0.47	74.46	Yes	
MW-37S	7/26/2011	614.40	616.42	604.40	589.40	NP	0.00	5.62	3.60	610.80	NA	21.40	Yes	

Table 4
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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)	Comment
MW-37S	10/11/2011	614.40	616.42	604.40	589.40	NP	0.00	6.56	4.54	609.86	-0.94	20.46	Yes	
MW-37S	1/4/2012	614.40	616.42	604.40	589.40	NP	0.00	7.32	5.30	609.10	-0.76	19.70	Yes	
MW-37S	4/16/2012	614.40	616.42	604.40	589.40	NP	0.00	5.12	3.10	611.30	2.20	21.90	Yes	
MW-37S	6/28/2012	614.40	616.42	604.40	589.40	NP	0.00	5.19	3.17	611.23	-0.07	21.83	Yes	
MW-37S	9/30/2012	614.40	616.42	604.40	589.40	NP	0.00	7.57	5.55	608.85	-2.38	19.45	Yes	
MW-37S	12/17/2012	614.40	616.42	604.40	589.40	NP	0.00	7.19	5.17	609.23	0.38	19.83	Yes	
MW-37S	3/25/2013	614.40	616.42	604.40	589.40	NP	0.00	7.99	5.97	608.43	-0.80	19.03	Yes	
MW-37S	5/5/2013	614.40	616.42	604.40	589.40	NP	0.00	5.94	3.92	610.48	2.05	21.08	Yes	
MW-37S	10/3/2013	614.40	616.42	604.40	589.40	NP	0.00	7.20	5.18	609.22	-1.26	19.82	Yes	
MW-37S	5/20/2014	614.40	616.42	604.40	589.40	NP	0.00	4.56	2.54	611.86	2.64	22.46	Yes	
MW-37S	10/31/2014	614.40	616.42	604.40	589.40	NP	0.00	5.89	3.87	610.53	-1.33	21.13	Yes	
MW-37S	5/4/2015	614.40	616.42	604.40	589.40	NP	0.00	6.00	3.98	610.42	-0.11	21.02	Yes	
MW-37S	10/5/2015	614.40	616.42	604.40	589.40	NP	0.00	5.43	3.41	610.99	0.57	21.59	Yes	
MW-37S	5/23/2016	614.40	616.42	604.40	589.40	NP	0.00	5.44	3.42	610.98	-0.01	21.58	Yes	
MW-37S	10/3/2016	614.40	616.42	604.40	589.40	NP	0.00	5.65	3.63	610.77	-0.21	21.37	Yes	
MW-37S	6/29/2017	614.40	616.42	604.40	589.40	NP	0.00	4.69	2.67	611.73	0.96	22.33	Yes	
MW-37S	10/8/2018	614.40	616.42	604.40	589.40	NP	0.00	5.21	3.19	611.21	-0.52	21.81	Yes	
MW-37D	7/26/2011	614.80	617.05	564.80	559.80	NP	0.00	6.79	4.54	610.26	NA	50.46	Yes	
MW-37D	10/11/2011	614.80	617.05	564.80	559.80	NP	0.00	7.78	5.53	609.27	-0.99	49.47	Yes	
MW-37D	1/4/2012	614.80	617.05	564.80	559.80	NP	0.00	8.79	6.54	608.26	-1.01	48.46	Yes	
MW-37D	4/16/2012	614.80	617.05	564.80	559.80	NP	0.00	8.41	6.16	608.64	0.38	48.84	Yes	
MW-37D	6/28/2012	614.80	617.05	564.80	559.80	NP	0.00	6.47	4.22	610.58	1.94	50.78	Yes	
MW-37D	9/30/2012	614.80	617.05	564.80	559.80	NP	0.00	8.51	6.26	608.54	-2.04	48.74	Yes	
MW-37D	12/17/2012	614.80	617.05	564.80	559.80	NP	0.00	8.86	6.61	608.19	-0.35	48.39	Yes	
MW-37D	3/25/2013	614.80	617.05	564.80	559.80	NP	0.00	9.53	7.28	607.52	-0.67	47.72	Yes	
MW-37D	5/5/2013	614.80	617.05	564.80	559.80	NP	0.00	8.28	6.03	608.77	1.25	48.97	Yes	
MW-37D	10/1/2013	614.80	617.05	564.80	559.80	NP	0.00	8.28	6.03	608.77	0.00	48.97	Yes	
MW-37D	5/21/2014	614.80	617.05	564.80	559.80	NP	0.00	6.45	4.20	610.60	1.83	50.80	Yes	
MW-37D	10/30/2014	614.80	617.05	564.80	559.80	NP	0.00	6.88	4.63	610.17	-0.43	50.37	Yes	
MW-37D	5/5/2015	614.80	617.05	564.80	559.80	NP	0.00	7.75	5.50	609.30	-0.87	49.50	Yes	
MW-37D	10/7/2015	614.80	617.05	564.80	559.80	NP	0.00	6.82	4.57	610.23	0.93	50.43	Yes	
MW-37D	5/23/2016	614.80	617.05	564.80	559.80	NP	0.00	6.14	3.89	610.91	0.68	51.11	Yes	
MW-37D	10/3/2016	614.80	617.05	564.80	559.80	NP	0.00	6.59	4.34	610.46	-0.45	50.66	Yes	
MW-37D	6/14/2017	614.80	617.05	564.80	559.80	NP	0.00	6.05	3.80	611.00	0.54	51.20	Yes	
MW-37D	10/3/2017	614.80	617.05	564.80	559.80	NP	0.00	5.15	2.90	611.90	0.90	52.10	Yes	
MW-37D	6/18/2018	614.80	617.05	564.80	559.80	NP	0.00	6.17	3.92	610.88	-1.02	51.08	Yes	
MW-37D	6/27/2018	614.80	617.05	564.80	559.80	NP	0.00	6.35	4.10	610.70	-0.18	50.90	Yes	
MW-37D	10/8/2018	614.80	617.05	564.80	559.80	NP	0.00	6.65	4.40	610.40	-0.30	50.60	Yes	

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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)	Comment
MW-37DD	10/11/2011	614.60	616.48	536.60	534.60	NP	0.00	7.06	5.18	609.42	NA	74.82	Yes	
MW-37DD	1/4/2012	614.60	616.48	536.60	534.60	NP	0.00	8.11	6.23	608.37	-1.05	73.77	Yes	
MW-37DD	4/16/2012	614.60	616.48	536.60	534.60	NP	0.00	7.82	5.94	608.66	0.29	74.06	Yes	
MW-37DD	6/28/2012	614.60	616.48	536.60	534.60	NP	0.00	5.78	3.90	610.70	2.04	76.10	Yes	
MW-37DD	9/30/2012	614.60	616.48	536.60	534.60	NP	0.00	7.86	5.98	608.62	-2.08	74.02	Yes	
MW-37DD	12/17/2012	614.60	616.48	536.60	534.60	NP	0.00	8.18	6.30	608.30	-0.32	73.70	Yes	
MW-37DD	3/25/2013	614.60	616.48	536.60	534.60	NP	0.00	8.84	6.96	607.64	-0.66	73.04	Yes	
MW-37DD	5/5/2013	614.60	616.48	536.60	534.60	NP	0.00	7.67	5.79	608.81	1.17	74.21	Yes	
MW-37DD	10/1/2013	614.60	616.48	536.60	534.60	NP	0.00	7.45	5.57	609.03	0.22	74.43	Yes	
MW-37DD	5/21/2014	614.60	616.48	536.60	534.60	NP	0.00	5.80	3.92	610.68	1.65	76.08	Yes	
MW-37DD	10/29/2014	614.60	616.48	536.60	534.60	NP	0.00	6.15	4.27	610.33	-0.35	75.73	Yes	
MW-37DD	5/5/2015	614.60	616.48	536.60	534.60	NP	0.00	7.12	5.24	609.36	-0.97	74.76	Yes	
MW-37DD	10/6/2015	614.60	616.48	536.60	534.60	NP	0.00	6.03	4.15	610.45	1.09	75.85	Yes	
MW-37DD	5/23/2016	614.60	616.48	536.60	534.60	NP	0.00	5.42	3.54	611.06	0.61	76.46	Yes	
MW-37DD	10/3/2016	614.60	616.48	536.60	534.60	NP	0.00	5.86	3.98	610.62	-0.44	76.02	Yes	
MW-37DD	6/29/2017	614.60	616.48	536.60	534.60	NP	0.00	5.46	3.58	611.02	0.40	76.42	Yes	
MW-37DD	10/12/2017	614.60	616.48	536.60	534.60	NP	0.00	4.38	2.50	612.10	1.08	77.50	Yes	
MW-37DD	6/18/2018	614.60	616.48	536.60	534.60	NP	0.00	5.53	3.65	610.95	-1.15	76.35	Yes	
MW-37DD	6/27/2018	614.60	616.48	536.60	534.60	NP	0.00	5.62	3.74	610.86	-0.09	76.26	Yes	
MW-37DD	10/8/2018	614.60	616.48	536.60	534.60	NP	0.00	5.98	4.10	610.50	-0.36	75.90	Yes	
MW-37DDD	6/18/2018	614.60	617.16	530.60	527.60	NP	0.00	6.35	3.79	610.81	0.00	83.21	Yes	
MW-37DDD	6/27/2018	614.60	617.16	530.60	527.60	NP	0.00	6.43	3.87	610.73	-0.08	83.13	Yes	
MW-37DDD	10/8/2018	614.60	617.16	530.60	527.60	NP	0.00	6.80	4.24	610.36	1.00	82.76	Yes	
MW-38S	7/26/2011	610.90	612.96	600.90	585.90	NP	0.00	4.95	2.89	608.01	NA	22.11	Yes	
MW-38S	10/11/2011	610.90	612.96	600.90	585.90	NP	0.00	6.09	4.03	606.87	-1.14	20.97	Yes	
MW-38S	1/4/2012	610.90	612.96	600.90	585.90	NP	0.00	6.94	4.88	606.02	-0.85	20.12	Yes	
MW-38S	4/16/2012	610.90	612.96	600.90	585.90	NP	0.00	4.38	2.32	608.58	2.56	22.68	Yes	
MW-38S	6/28/2012	610.90	612.96	600.90	585.90	NP	0.00	4.39	2.33	608.57	-0.01	22.67	Yes	
MW-38S	9/30/2012	610.90	612.96	600.90	585.90	NP	0.00	7.03	4.97	605.93	-2.64	20.03	Yes	
MW-38S	12/17/2012	610.90	612.96	600.90	585.90	NP	0.00	6.42	4.36	606.54	0.61	20.64	Yes	
MW-38S	3/25/2013	610.90	612.96	600.90	585.90	NP	0.00	7.29	5.23	605.67	-0.87	19.77	Yes	
MW-38S	5/5/2013	610.90	612.96	600.90	585.90	NP	0.00	4.83	2.77	608.13	2.46	22.23	Yes	
MW-38S	10/3/2013	610.90	612.96	600.90	585.90	NP	0.00	6.43	4.37	606.53	-1.60	20.63	Yes	
MW-38S	5/20/2014	610.90	612.96	600.90	585.90	NP	0.00	3.79	1.73	609.17	2.64	23.27	Yes	
MW-38S	10/31/2014	610.90	612.96	600.90	585.90	NP	0.00	5.62	3.56	607.34	-1.83	21.44	Yes	
MW-38S	5/4/2015	610.90	612.96	600.90	585.90	NP	0.00	5.38	3.32	607.58	0.24	21.68	Yes	

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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)	Comment
MW-38S	10/5/2015	610.90	612.96	600.90	585.90	NP	0.00	5.13	3.07	607.83	0.25	21.93	Yes	
MW-38S	5/23/2016	610.90	612.96	600.90	585.90	NP	0.00	5.33	3.27	607.63	-0.20	21.73	Yes	
MW-38S	10/3/2016	610.90	612.96	600.90	585.90	NP	0.00	5.41	3.35	607.55	-0.08	21.65	Yes	
MW-38S	6/29/2017	610.90	612.96	600.90	585.90	NP	0.00	4.28	2.22	608.68	1.13	22.78	Yes	
MW-38S	10/3/2017	610.90	612.96	600.90	585.90	NP	0.00	3.25	1.19	609.71	1.03	23.81	Yes	
MW-38S	10/8/2018	610.90	612.96	600.90	585.90	NP	0.00	4.67	2.61	608.29	-1.42	22.39	Yes	
MW-38D	7/26/2011	610.90	612.78	560.90	555.90	NP	0.00	3.63	1.75	609.15	NA	53.25	Yes	
MW-38D	10/11/2011	610.90	612.78	560.90	555.90	NP	0.00	4.54	2.66	608.24	-0.91	52.34	Yes	
MW-38D	1/4/2012	610.90	612.78	560.90	555.90	NP	0.00	5.64	3.76	607.14	-1.10	51.24	Yes	
MW-38D	4/16/2012	610.90	612.78	560.90	555.90	NP	0.00	5.07	3.19	607.71	0.57	51.81	Yes	
MW-38D	6/28/2012	610.90	612.78	560.90	555.90	NP	0.00	3.19	1.31	609.59	1.88	53.69	Yes	
MW-38D	9/30/2012	610.90	612.78	560.90	555.90	NP	0.00	5.36	3.48	607.42	-2.17	51.52	Yes	
MW-38D	12/17/2012	610.90	612.78	560.90	555.90	NP	0.00	5.65	3.77	607.13	-0.29	51.23	Yes	
MW-38D	3/25/2013	610.90	612.78	560.90	555.90	NP	0.00	6.24	4.36	606.54	-0.59	50.64	Yes	
MW-38D	5/5/2013	610.90	612.78	560.90	555.90	NP	0.00	4.88	3.00	607.90	1.36	52.00	Yes	
MW-38D	10/1/2013	610.90	612.78	560.90	555.90	NP	0.00	4.28	2.40	608.50	0.60	52.60	Yes	
MW-38D	5/20/2014	610.90	612.78	560.90	555.90	NP	0.00	3.05	1.17	609.73	1.23	53.83	Yes	
MW-38D	10/29/2014	610.90	612.78	560.90	555.90	NP	0.00	3.59	1.71	609.19	-0.54	53.29	Yes	
MW-38D	5/4/2015	610.90	612.78	560.90	555.90	NP	0.00	4.40	2.52	608.38	-0.81	52.48	Yes	
MW-38D	10/5/2015	610.90	612.78	560.90	555.90	NP	0.00	3.51	1.63	609.27	0.89	53.37	Yes	
MW-38D	5/23/2016	610.90	612.78	560.90	555.90	NP	0.00	3.02	1.14	609.76	0.49	53.86	Yes	
MW-38D	10/3/2016	610.90	612.78	560.90	555.90	NP	0.00	3.41	1.53	609.37	-0.39	53.47	Yes	
MW-38D	6/29/2017	610.90	612.78	560.90	555.90	NP	0.00	2.91	1.03	609.87	0.50	53.97	Yes	
MW-38D	10/3/2017	610.90	612.78	560.90	555.90	NP	0.00	1.99	0.11	610.79	0.92	54.89	Yes	
MW-38D	6/18/2018	610.90	612.78	560.90	555.90	NP	0.00	2.95	1.07	609.83	-0.96	53.93	Yes	
MW-38D	10/8/2018	610.90	612.78	560.90	555.90	NP	0.00	3.41	1.53	609.37	-0.46	53.47	Yes	
MW-38DD	6/18/2018	610.90	613.48	537.90	534.90	NP	0.00	3.28	0.70	610.20		75.30	Yes	
MW-38DD	10/8/2018	611.90	614.48	538.90	535.90	NP	0.00	4.36	1.78	610.12	-0.08	74.22	Yes	
MW-40S	7/26/2011	606.90	609.00	596.90	581.90	NP	0.00	2.48	0.38	606.52	NA	24.62	Yes	
MW-40S	10/11/2011	606.90	609.00	596.90	581.90	NP	0.00	6.38	4.28	602.62	-3.90	20.72	Yes	
MW-40S	1/4/2012	606.90	609.00	596.90	581.90	NP	0.00	7.07	4.97	601.93	-0.69	20.03	Yes	
MW-40S	4/16/2012	606.90	609.00	596.90	581.90	NP	0.00	4.64	2.54	604.36	2.43	22.46	Yes	
MW-40S	6/28/2012	606.90	609.00	596.90	581.90	NP	0.00	6.73	4.63	602.27	-2.09	20.37	Yes	
MW-40S	9/30/2012	606.90	609.00	596.90	581.90	NP	0.00	7.51	5.41	601.49	-0.78	19.59	Yes	
MW-40S	12/17/2012	606.90	609.00	596.90	581.90	NP	0.00	6.48	4.38	602.52	1.03	20.62	Yes	
MW-40S	3/25/2013	606.90	609.00	596.90	581.90	NP	0.00	7.15	5.05	601.85	-0.67	19.95	Yes	

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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)	Comment
MW-40S	5/5/2013	606.90	609.00	596.90	581.90	NP	0.00	5.02	2.92	603.98	2.13	22.08	Yes	
MW-40S	10/3/2013	606.90	609.00	596.90	581.90	NP	0.00	5.81	3.71	603.19	-0.79	21.29	Yes	
MW-40S	5/20/2014	606.90	609.00	596.90	581.90	NP	0.00	4.83	2.73	604.17	0.98	22.27	Yes	
MW-40S	10/31/2014	606.90	609.00	596.90	581.90	NP	0.00	5.38	3.28	603.62	-0.55	21.72	Yes	
MW-40S	5/4/2015	606.90	609.00	596.90	581.90	NP	0.00	5.80	3.70	603.20	-0.42	21.30	Yes	
MW-40S	10/5/2015	606.90	609.00	596.90	581.90	NP	0.00	5.11	3.01	603.89	0.69	21.99	Yes	
MW-40S	5/23/2016	606.90	609.00	596.90	581.90	NP	0.00	5.71	3.61	603.29	-0.60	21.39	Yes	
MW-40S	10/3/2016	606.90	609.00	596.90	581.90	NP	0.00	5.33	3.23	603.67	0.38	21.77	Yes	
MW-40S	6/29/2017	606.90	609.00	596.90	581.90	NP	0.00	5.03	2.93	603.97	0.30	22.07	Yes	
MW-40S	10/3/2017	606.90	609.00	596.90	581.90	NP	0.00	4.00	1.90	605.00	1.03	23.10	Yes	
MW-40S	10/8/2018	606.90	609.00	596.90	581.90	NP	0.00	4.82	2.72	604.18	-0.82	22.28	Yes	
MW-40D	7/26/2011	607.00	608.80	557.00	552.00	NP	0.00	4.95	3.15	603.85	NA	51.85	Yes	
MW-40D	10/11/2011	607.00	608.80	557.00	552.00	NP	0.00	3.11	1.31	605.69	1.84	53.69	Yes	
MW-40D	1/4/2012	607.00	608.80	557.00	552.00	NP	0.00	3.82	2.02	604.98	-0.71	52.98	Yes	
MW-40D	4/16/2012	607.00	608.80	557.00	552.00	NP	0.00	3.40	1.60	605.40	0.42	53.40	Yes	
MW-40D	6/28/2012	607.00	608.80	557.00	552.00	NP	0.00	1.98	0.18	606.82	1.42	54.82	Yes	
MW-40D	9/30/2012	607.00	608.80	557.00	552.00	NP	0.00	3.51	1.71	605.29	-1.53	53.29	Yes	
MW-40D	12/17/2012	607.00	608.80	557.00	552.00	NP	0.00	3.92	2.12	604.88	-0.41	52.88	Yes	
MW-40D	3/26/2013	607.00	608.80	557.00	552.00	NP	0.00	4.46	2.66	604.34	-0.54	52.34	Yes	
MW-40D	5/6/2013	607.00	608.80	557.00	552.00	NP	0.00	3.27	1.47	605.53	1.19	53.53	Yes	
MW-40D	10/1/2013	607.00	608.80	557.00	552.00	NP	0.00	2.96	1.16	605.84	0.31	53.84	Yes	
MW-40D	5/20/2014	607.00	608.80	557.00	552.00	NP	0.00	1.56	-0.24	607.24	1.40	55.24	Yes	
MW-40D	10/29/2014	607.00	608.80	557.00	552.00	NP	0.00	1.89	0.09	606.91	-0.33	54.91	Yes	
MW-40D	5/4/2015	607.00	608.80	557.00	552.00	NP	0.00	2.56	0.76	606.24	-0.67	54.24	Yes	
MW-40D	10/5/2015	607.00	608.80	557.00	552.00	NP	0.00	1.85	0.05	606.95	0.71	54.95	Yes	
MW-40D	5/23/2016	607.00	608.80	557.00	552.00	NP	0.00	1.74	-0.06	607.06	0.11	55.06	Yes	
MW-40D	10/3/2016	607.00	608.80	557.00	552.00	NP	0.00	1.79	-0.01	607.01	-0.05	55.01	Yes	
MW-40D	6/29/2017	607.00	608.80	557.00	552.00	NP	0.00	1.36	-0.44	607.44	0.43	55.44	Yes	
MW-40D	10/3/2017	607.00	608.80	557.00	552.00	NP	0.00	0.50	-1.30	608.30	0.86	56.30	Yes	
MW-40D	6/18/2018	607.00	608.80	557.00	552.00	NP	0.00	1.42	-0.38	607.38	-0.92	55.38	Yes	
MW-40D	10/8/2018	607.00	608.80	557.00	552.00	NP	0.00	1.63	-0.17	607.17	-0.21	55.17	Yes	
MW-41S	7/26/2011	608.70	610.68	598.70	583.70	NP	0.00	6.12	4.14	604.56	NA	20.86	Yes	
MW-41S	10/11/2011	608.70	610.68	598.70	583.70	NP	0.00	6.89	4.91	603.79	-0.77	20.09	Yes	
MW-41S	1/4/2012	608.70	610.68	598.70	583.70	NP	0.00	7.41	5.43	603.27	-0.52	19.57	Yes	
MW-41S	4/16/2012	608.70	610.68	598.70	583.70	NP	0.00	5.71	3.73	604.97	1.70	21.27	Yes	
MW-41S	6/28/2012	608.70	610.68	598.70	583.70	NP	0.00	5.48	3.50	605.20	0.23	21.50	Yes	
MW-41S	9/30/2012	608.70	610.68	598.70	583.70	NP	0.00	7.54	5.56	603.14	-2.06	19.44	Yes	

Table 4
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MW-41S	12/17/2012	608.70	610.68	598.70	583.70	NP	0.00	7.45	5.47	603.23	0.09	19.53	Yes	
MW-41S	3/26/2013	608.70	610.68	598.70	583.70	NP	0.00	7.54	5.56	603.14	-0.09	19.44	Yes	
MW-41S	5/6/2013	608.70	610.68	598.70	583.70	NP	0.00	6.02	4.04	604.66	1.52	20.96	Yes	
MW-41S	10/3/2013	608.70	610.68	598.70	583.70	NP	0.00	6.81	4.83	603.87	-0.79	20.17	Yes	
MW-41S	5/20/2014	608.70	610.68	598.70	583.70	NP	0.00	4.94	2.96	605.74	1.87	22.04	Yes	
MW-41S	10/31/2014	608.70	610.68	598.70	583.70	NP	0.00	5.69	3.71	604.99	-0.75	21.29	Yes	
MW-41S	5/4/2015	608.70	610.68	598.70	583.70	NP	0.00	5.99	4.01	604.69	-0.30	20.99	Yes	
MW-41S	10/5/2015	608.70	610.68	598.70	583.70	NP	0.00	5.51	3.53	605.17	0.48	21.47	Yes	
MW-41S	5/23/2016	608.70	610.68	598.70	583.70	NP	0.00	5.75	3.77	604.93	-0.24	21.23	Yes	
MW-41S	10/3/2016	608.70	610.68	598.70	583.70	NP	0.00	5.67	3.69	605.01	0.08	21.31	Yes	
MW-41S	6/29/2017	608.70	610.68	598.70	583.70	NP	0.00	5.26	3.28	605.42	0.41	21.72	Yes	
MW-41S	10/3/2017	608.70	610.68	598.70	583.70	NP	0.00	4.20	2.22	606.48	1.06	22.78	Yes	
MW-41S	10/8/2018	608.70	610.68	598.70	583.70	NP	0.00	5.45	3.47	605.23	-1.25	21.53	Yes	
MW-41D	7/26/2011	609.00	610.86	559.00	554.00	NP	0.00	9.56	7.70	601.30	NA	47.30	Yes	
MW-41D	10/11/2011	609.00	610.86	559.00	554.00	NP	0.00	3.82	1.96	607.04	5.74	53.04	Yes	
MW-41D	1/4/2012	609.00	610.86	559.00	554.00	NP	0.00	4.75	2.89	606.11	-0.93	52.11	Yes	
MW-41D	4/16/2012	609.00	610.86	559.00	554.00	NP	0.00	4.40	2.54	606.46	0.35	52.46	Yes	
MW-41D	6/28/2012	609.00	610.86	559.00	554.00	NP	0.00	2.77	0.91	608.09	1.63	54.09	Yes	
MW-41D	9/30/2012	609.00	610.86	559.00	554.00	NP	0.00	4.51	2.65	606.35	-1.74	52.35	Yes	
MW-41D	12/17/2012	609.00	610.86	559.00	554.00	NP	0.00	4.82	2.96	606.04	-0.31	52.04	Yes	
MW-41D	3/26/2013	609.00	610.86	559.00	554.00	NP	0.00	5.33	3.47	605.53	-0.51	51.53	Yes	
MW-41D	5/6/2013	609.00	610.86	559.00	554.00	NP	0.00	4.28	2.42	606.58	1.05	52.58	Yes	
MW-41D	10/1/2013	609.00	610.86	559.00	554.00	NP	0.00	3.88	2.02	606.98	0.40	52.98	Yes	
MW-41D	5/21/2014	609.00	610.86	559.00	554.00	NP	0.00	2.57	0.71	608.29	1.31	54.29	Yes	
MW-41D	10/29/2014	609.00	610.86	559.00	554.00	NP	0.00	4.81	2.95	606.05	-2.24	52.05	Yes	
MW-41D	5/4/2015	609.00	610.86	559.00	554.00	NP	0.00	3.60	1.74	607.26	1.21	53.26	Yes	
MW-41D	10/6/2015	609.00	610.86	559.00	554.00	NP	0.00	2.76	0.90	608.10	0.84	54.10	Yes	
MW-41D	5/23/2016	609.00	610.86	559.00	554.00	NP	0.00	2.41	0.55	608.45	0.35	54.45	Yes	
MW-41D	10/3/2016	609.00	610.86	559.00	554.00	NP	0.00	2.55	0.69	608.31	-0.14	54.31	Yes	
MW-41D	6/29/2017	609.00	610.86	559.00	554.00	NP	0.00	2.20	0.34	608.66	0.35	54.66	Yes	
MW-41D	10/3/2017	609.00	610.86	559.00	554.00	NP	0.00	1.37	-0.49	609.49	0.83	55.49	Yes	
MW-41D	6/18/2018	609.00	610.86	559.00	554.00	NP	0.00	2.32	0.46	608.54	-0.95	54.54	Yes	
MW-41D	10/8/2018	609.00	610.86	559.00	554.00	NP	0.00	2.53	0.67	608.33	-0.21	54.33	Yes	
MW-41DD	6/18/2018	609.00	611.62	538.00	535.00	NP	0.00	3.58	0.96	608.04		73.04	Yes	
MW-41DD	10/8/2018	609.00	611.62	538.00	535.00	NP	0.00	5.15	2.53	606.47	-1.57	71.47	Yes	
MW-45S	6/28/2012	620.00	622.38	600.00	590.00	NP	0.00	9.15	6.77	613.23	613.23	23.23	Yes	
MW-45S	9/30/2012	620.00	622.38	600.00	590.00	NP	0.00	11.38	9.00	611.00	-2.23	21.00	Yes	

Table 4
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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)	Comment
MW-45S	12/17/2012	620.00	622.38	600.00	590.00	NP	0.00	11.67	9.29	610.71	-0.29	20.71	Yes	
MW-45S	3/25/2013	620.00	622.38	600.00	590.00	NP	0.00	12.45	10.07	609.93	-0.78	19.93	Yes	
MW-45S	5/6/2013	620.00	622.38	600.00	590.00	NP	0.00	10.87	8.49	611.51	1.58	21.51	Yes	
MW-45S	10/3/2013	620.00	622.38	600.00	590.00	NP	0.00	11.35	8.97	611.03	-0.48	21.03	Yes	
MW-45S	5/20/2014	620.00	622.38	600.00	590.00	NP	0.00	9.08	6.70	613.30	2.27	23.30	Yes	
MW-45S	10/31/2014	620.00	622.38	600.00	590.00	NP	0.00	9.85	7.47	612.53	-0.77	22.53	Yes	
MW-45S	5/4/2015	620.00	622.38	600.00	590.00	NP	0.00	10.56	8.18	611.82	-0.71	21.82	Yes	
MW-45S	10/5/2015	620.00	622.38	600.00	590.00	NP	0.00	9.54	7.16	612.84	1.02	22.84	Yes	
MW-45S	5/23/2016	620.00	622.38	600.00	590.00	NP	0.00	8.89	6.51	613.49	0.65	23.49	Yes	
MW-45S	10/3/2016	620.00	622.38	600.00	590.00	NP	0.00	9.50	7.12	612.88	-0.61	22.88	Yes	
MW-45S	6/29/2017	620.00	622.38	600.00	590.00	NP	0.00	8.94	6.56	613.44	0.56	23.44	Yes	
MW-45S	10/3/2017	620.00	622.38	600.00	590.00	NP	0.00	7.79	5.41	614.59	1.15	24.59	Yes	
MW-45S	10/8/2018	620.00	622.38	600.00	590.00	NP	0.00	9.56	7.18	612.82	-1.77	22.82	Yes	
MW-45D	6/28/2012	619.80	622.28	564.80	559.80	NP	0.00	9.97	7.49	612.31	612.31	52.51	Yes	
MW-45D	9/30/2012	619.80	622.28	564.80	559.80	NP	0.00	12.13	9.65	610.15	-2.16	50.35	Yes	
MW-45D	12/17/2012	619.80	622.28	564.80	559.80	NP	0.00	12.56	10.08	609.72	-0.43	49.92	Yes	
MW-45D	3/25/2013	619.80	622.28	564.80	559.80	NP	0.00	13.24	10.76	609.04	-0.68	49.24	Yes	
MW-45D	5/6/2013	619.80	622.28	564.80	559.80	NP	0.00	12.14	9.66	610.14	1.10	50.34	Yes	
MW-45D	10/1/2013	619.80	622.28	564.80	559.80	NP	0.00	11.98	9.50	610.30	0.16	50.50	Yes	
MW-45D	5/21/2014	619.80	622.28	564.80	559.80	NP	0.00	10.12	7.64	612.16	1.86	52.36	Yes	
MW-45D	10/30/2014	619.80	622.28	564.80	559.80	NP	0.00	10.49	8.01	611.79	-0.37	51.99	Yes	
MW-45D	5/5/2015	619.80	622.28	564.80	559.80	NP	0.00	11.57	9.09	610.71	-1.08	50.91	Yes	
MW-45D	10/6/2015	619.80	622.28	564.80	559.80	NP	0.00	10.41	7.93	611.87	1.16	52.07	Yes	
MW-45D	5/23/2016	619.80	622.28	564.80	559.80	NP	0.00	9.56	7.08	612.72	0.85	52.92	Yes	
MW-45D	10/3/2016	619.80	622.28	564.80	559.80	NP	0.00	10.12	7.64	612.16	-0.56	52.36	Yes	
MW-45D	6/29/2017	619.80	622.28	564.80	559.80	NP	0.00	9.70	7.22	612.58	0.42	52.78	Yes	
MW-45D	10/3/2017	619.80	622.28	564.80	559.80	NP	0.00	8.57	6.09	613.71	1.13	53.91	Yes	
MW-45D	6/18/2018	619.80	622.28	564.80	559.80	NP	0.00	9.82	7.34	612.46	-1.25	52.66	Yes	
MW-45D	6/27/2018	619.80	622.28	564.80	559.80	NP	0.00	9.85	7.37	612.43	-0.03	52.63	Yes	
MW-45D	10/8/2018	619.80	622.28	564.80	559.80	NP	0.00	10.32	7.84	611.96	-0.47	52.16	Yes	
MW-46S	6/28/2012	625.77	627.95	605.77	595.77	NP	0.00	15.46	13.28	612.49	612.49	16.72	Yes	
MW-46S	9/30/2012	625.77	627.95	605.77	595.77	NP	0.00	17.45	15.27	610.50	-1.99	14.73	Yes	
MW-46S	12/17/2012	625.77	627.95	605.77	595.77	NP	0.00	17.59	15.41	610.36	-0.14	14.59	Yes	
MW-46S	3/25/2013	625.77	627.95	605.77	595.77	NP	0.00	18.19	16.01	609.76	-0.60	13.99	Yes	
MW-46S	5/6/2013	625.77	627.95	605.77	595.77	NP	0.00	16.59	14.41	611.36	1.60	15.59	Yes	
MW-46S	10/3/2013	625.77	627.95	605.77	595.77	NP	0.00	17.29	15.11	610.66	-0.70	14.89	Yes	
MW-46S	5/20/2014	625.77	627.95	605.77	595.77	NP	0.00	15.28	13.10	612.67	2.01	16.90	Yes	
MW-46S	10/31/2014	625.77	627.95	605.77	595.77	NP	0.00	16.09	13.91	611.86	-0.81	16.09	Yes	
MW-46S	5/4/2015	625.77	627.95	605.77	595.77	NP	0.00	16.31	14.13	611.64	-0.22	15.87	Yes	
MW-46S	10/5/2015	625.77	627.95	605.77	595.77	NP	0.00	16.27	14.09	611.68	0.04	15.91	Yes	
MW-46S	5/23/2016	625.77	627.95	605.77	595.77	NP	0.00	15.75	13.57	612.20	0.52	16.43	Yes	
MW-46S	10/3/2016	625.77	627.95	605.77	595.77	NP	0.00	15.76	13.58	612.19	-0.01	16.42	Yes	
MW-46S	6/29/2017	625.77	627.95	605.77	595.77	NP	0.00	15.23	13.05	612.72	0.53	16.95	Yes	
MW-46S	10/3/2017	625.77	627.95	605.77	595.77	NP	0.00	14.32	12.14	613.63	0.91	17.86	Yes	
MW-46S	10/8/2018	625.77	627.95	605.77	595.77	NP	0.00	15.68	13.50	612.27	-1.36	16.50	Yes	
MW-46D	6/28/2012	625.77	628.05	567.77	562.77	NP	0.00	16.16	13.88	611.89	611.89	49.12	Yes	

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MW-46D	9/30/2012	625.77	628.05	567.77	562.77	NP	0.00	17.97	15.69	610.08	-1.81	47.31	Yes	
MW-46D	12/17/2012	625.77	628.05	567.77	562.77	NP	0.00	18.37	16.09	609.68	-0.40	46.91	Yes	
MW-46D	3/25/2013	625.77	628.05	567.77	562.77	NP	0.00	18.94	16.66	609.11	-0.57	46.34	Yes	
MW-46D	5/6/2013	625.77	628.05	567.77	562.77	NP	0.00	17.88	15.60	610.17	1.06	47.40	Yes	
MW-46D	10/1/2013	625.77	628.05	567.77	562.77	NP	0.00	17.60	15.32	610.45	0.28	47.68	Yes	
MW-46D	5/20/2014	625.77	628.05	567.77	562.77	NP	0.00	16.09	13.81	611.96	1.51	49.19	Yes	
MW-46D	10/29/2014	625.77	628.05	567.77	562.77	NP	0.00	16.36	14.08	611.69	-0.27	48.92	Yes	
MW-46D	5/4/2015	625.77	628.05	567.77	562.77	NP	0.00	17.30	15.02	610.75	-0.94	47.98	Yes	
MW-46D	10/5/2015	625.77	628.05	567.77	562.77	NP	0.00	16.32	14.04	611.73	0.98	48.96	Yes	
MW-46D	5/23/2016	625.77	628.05	567.77	562.77	NP	0.00	15.26	12.98	612.79	1.06	50.02	Yes	
MW-46D	10/3/2016	625.77	628.05	567.77	562.77	NP	0.00	16.09	13.81	611.96	-0.83	49.19	Yes	
MW-46D	6/29/2017	625.77	628.05	567.77	562.77	NP	0.00	15.72	13.44	612.33	0.37	49.56	Yes	
MW-46D	10/3/2017	625.77	628.05	567.77	562.77	NP	0.00	14.81	12.53	613.24	0.91	50.47	Yes	
MW-46D	6/18/2018	625.77	628.05	567.77	562.77	NP	0.00	15.90	13.62	612.15	-1.09	49.38	Yes	
MW-46D	10/8/2018	625.77	628.05	567.77	562.77	NP	0.00	16.21	13.93	611.84	-0.31	49.07	Yes	
MW-48S	10/3/2016	623.30	625.79	608.30	593.30	NP	0.00	14.76	12.27	611.03	NA	17.73	Yes	
MW-48S	6/13/2017	623.30	625.79	608.30	593.30	NP	0.00	12.98	10.49	612.81	1.78	19.51	Yes	
MW-48S	10/3/2017	623.30	625.79	608.30	593.30	NP	0.00	12.04	9.55	613.75	0.94	20.45	Yes	
MW-48S	6/18/2018	623.30	625.79	608.30	593.30	NP	0.00	12.70	10.21	613.09	-0.66	19.79	Yes	
MW-48S	10/8/2018	623.30	625.79	608.30	593.30	NP	0.00	14.85	12.36	610.94	-2.15	17.64	Yes	
MW-48D	10/3/2016	623.24	625.75	569.24	564.24	NP	0.00	14.02	11.51	611.73	NA	47.49	Yes	
MW-48D	6/14/2017	623.24	625.75	569.24	564.24	NP	0.00	13.10	10.59	612.65	0.92	48.41	Yes	
MW-48D	10/3/2017	623.24	625.75	569.24	564.24	NP	0.00	12.19	9.68	613.56	0.91	49.32	Yes	
MW-48D	6/18/2018	623.24	625.75	569.24	564.24	NP	0.00	13.20	10.69	612.55	-1.01	48.31	Yes	
MW-48D	10/8/2018	623.24	625.75	569.24	564.24	NP	0.00	14.20	11.69	611.55	-1.00	47.31	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-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	
MW-50D	6/18/2018	626.07	628.62	563.07	560.07	NP	0.00	16.65	14.10	611.97	NA	51.90	Yes	
MW-50D	10/8/2018	626.07	628.62	563.07	560.07	NP	0.00	15.63	13.08	612.99	NA	52.92	Yes	
MW-51D	6/18/2018	625.43	627.43	562.43	559.43	NP	0.00	14.98	12.98	612.45	NA	53.02	Yes	
MW-51D	10/8/2018	625.43	627.43	562.43	559.43	NP	0.00	16.83	14.83	610.60	NA	51.17	Yes	
MW-52D	6/18/2018	632.28	634.83	575.28	572.28	NP	0.00	18.35	15.80	616.48	NA	44.20	Yes	
MW-52D	10/8/2018	632.28	634.83	575.28	572.28	NP	0.00	19.17	16.62	615.66	NA	43.38	Yes	
MW-52DD	6/18/2018	632.85	635.65	548.85	544.85	NP	0.00	19.52	16.72	616.13	NA	71.28	Yes	

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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)	Comment
MW-52DD	10/8/2018	632.85	635.65	548.85	544.85	NP	0.00	20.22	17.42	615.43	NA	70.58	Yes	
LRMW-1	2/8/2001	627.37	629.07	616.58	606.58	15.44	5.77	21.21	14.98	612.39	NA	7.05	No	
LRMW-1	2/23/2001	627.37	629.07	616.58	606.58	15.87	5.32	21.19	15.31	612.06	-0.33	6.62	No	
LRMW-1	4/24/2001	627.37	629.07	616.58	606.58	11.30	9.52	20.82	11.65	615.72	3.67	11.19	No	
LRMW-1	5/23/2001	627.37	629.07	616.58	606.58	10.61	10.46	21.07	11.16	616.21	0.49	11.88	No	
LRMW-1	10/24/2001	627.37	629.07	616.58	606.58	14.60	6.52	21.12	14.30	613.07	-3.14	7.89	No	
LRMW-1	12/20/2001	627.40	629.07	616.58	606.58	14.09	7.07	21.16	13.94	613.46	0.39	8.40	No	
LRMW-1	1/22/2002	627.40	629.07	616.58	606.58	15.28	5.97	21.25	14.89	612.51	-0.95	7.21	No	
LRMW-1	4/24/2002	627.40	629.07	616.58	606.58	13.19	8.08	21.27	13.26	614.14	1.64	9.30	No	
LRMW-1	5/15/2002	627.40	629.07	616.58	606.58	11.97	9.15	21.12	12.27	615.13	0.99	10.52	No	
LRMW-1	6/27/2002	627.40	629.07	616.58	606.58	12.29	8.84	21.13	12.52	614.88	-0.25	10.20	No	
LRMW-1	7/25/2002	627.40	629.07	616.58	606.58	12.91	8.18	21.09	13.00	614.40	-0.48	9.58	No	
LRMW-1	8/20/2002	627.40	629.07	616.58	606.58	12.11	8.92	21.03	12.36	615.04	0.64	10.38	No	
LRMW-1	9/9/2002	627.40	629.07	616.58	606.58	12.31	8.73	21.04	12.52	614.88	-0.16	10.18	No	
LRMW-1	9/30/2002	627.40	629.07	616.58	606.58	12.18	8.84	21.02	12.41	614.99	0.11	10.31	No	
LRMW-1	11/5/2002	627.40	629.07	616.58	606.58	11.76	9.27	21.03	12.08	615.32	0.33	10.73	No	
LRMW-1	12/23/2002	627.40	629.07	616.58	606.58	14.12	7.16	21.28	13.99	613.41	-1.91	8.37	No	
LRMW-1	1/28/2003	627.40	629.07	616.58	606.58	15.35	5.99	21.34	14.97	612.43	-0.98	7.14	No	
LRMW-1	2/19/2003	627.40	629.07	616.58	606.58	15.95	5.11	21.06	15.38	612.02	-0.41	6.54	No	
LRMW-1	4/17/2003	627.40	629.07	616.58	606.58	16.08	4.82	20.90	15.45	611.95	-0.07	6.41	No	
LRMW-1	5/15/2003	627.40	629.07	616.58	606.58	14.68	6.15	20.83	14.33	613.07	1.11	7.81	No	
LRMW-1	6/10/2003	627.40	629.07	616.58	606.58	14.28	6.44	20.72	13.99	613.41	0.34	8.21	No	
LRMW-1	7/30/2003	627.40	629.07	616.58	606.58	14.22	6.40	20.62	13.93	613.47	0.07	8.27	No	
LRMW-1	9/10/2003	627.40	629.07	616.58	606.58	15.75	5.08	20.83	15.17	612.23	-1.25	6.74	No	
LRMW-1	10/23/2003	627.40	629.07	616.58	606.58	15.88	4.98	20.86	15.28	612.12	-0.11	6.61	No	
LRMW-1	12/3/2003	626.53	629.03	616.54	606.54	16.08	4.59	20.67	14.57	611.96	-0.16	6.41	No	
LRMW-1	1/8/2004	626.53	629.03	616.54	606.54	16.78	4.08	20.86	15.16	611.37	-0.59	5.71	No	
LRMW-1	4/19/2004	626.53	629.03	616.54	606.54	15.06	5.94	21.00	13.84	612.69	1.32	7.43	No	
LRMW-1	7/27/2004	626.53	629.03	616.54	606.54	14.16	6.35	20.51	13.02	613.51	0.81	8.33	No	
LRMW-1	11/15/2004	626.53	629.03	616.54	606.54	12.69	7.66	20.35	11.84	614.69	1.19	9.80	No	
LRMW-1	4/18/2005	626.53	629.03	616.54	606.54	12.78	7.68	20.46	11.93	614.60	-0.09	9.71	No	
LRMW-1	9/9/2005	626.53	629.03	616.54	606.54	14.89	5.48	20.37	13.57	612.96	-1.64	7.60	No	
LRMW-1	10/11/2005	626.53	629.03	616.54	606.54	14.38	5.56	19.94	13.07	613.46	0.49	8.11	No	
LRMW-1	5/23/2006	626.53	629.03	616.54	606.54	11.24	9.01	20.25	10.68	615.85	2.40	11.25	No	
LRMW-1	10/16/2006	626.53	629.03	616.54	606.54	14.90	5.35	20.25	13.55	612.98	-2.87	7.59	No	
LRMW-1	4/23/2007	626.53	629.03	616.54	606.54	14.27	6.36	20.63	13.14	613.39	0.41	8.22	No	
LRMW-1	9/25/2007	626.53	629.03	616.54	606.54	14.68	5.60	20.28	13.38	613.15	-0.25	7.81	No	
LRMW-1	5/1/2008	626.53	629.03	616.54	606.54	11.06	8.73	19.79	10.44	616.09	2.95	11.43	No	
LRMW-1	10/20/2008	626.53	629.03	616.54	606.54	11.84	7.99	19.83	11.06	615.47	-0.62	10.65	No	
LRMW-1	4/18/2009	626.53	629.03	616.54	606.54	13.82	5.94	19.76	12.60	613.93	-1.54	8.67	No	

Table 4
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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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)	Comment
LRMW-1	4/28/2010	626.53	629.03	616.54	606.54	13.86	6.28	20.14	12.71	613.82	-0.11	8.63	No	
LRMW-1	10/25/2010	626.53	629.03	616.54	606.54	11.78	8.13	19.91	11.03	615.50	1.68	10.71	No	
LRMW-1	4/25/2011	626.53	629.03	616.54	606.54	12.44	7.08	19.52	11.46	615.07	-0.43	10.05	No	
LRMW-1	9/14/2011	626.53	629.03	616.54	606.54	12.87	7.05	19.92	11.88	614.65	-0.42	9.62	No	
LRMW-1	9/23/2011	626.53	629.03	616.54	606.54	13.22	6.71	19.93	12.16	614.37	-0.28	9.27	No	
LRMW-1	9/29/2011	626.53	629.03	616.54	606.54	13.34	6.59	19.93	12.26	614.27	-0.09	9.15	No	
LRMW-1	10/7/2011	626.53	629.03	616.54	606.54	13.96	5.97	19.93	12.74	613.79	-0.49	8.53	No	
LRMW-1	10/11/2011	626.53	629.03	616.54	606.54	14.15	5.73	19.88	12.88	613.65	-0.14	8.34	No	
LRMW-1	10/21/2011	626.53	629.03	616.54	606.54	13.97	5.97	19.94	12.75	613.78	0.13	8.52	No	
LRMW-1	10/27/2011	626.53	629.03	616.54	606.54	14.10	5.87	19.97	12.86	613.67	-0.11	8.39	No	
LRMW-1	11/3/2011	626.53	629.03	616.54	606.54	14.42	5.56	19.98	13.11	613.42	-0.25	8.07	No	
LRMW-1	11/9/2011	626.53	629.03	616.54	606.54	14.37	5.60	19.97	13.07	613.46	0.04	8.12	No	
LRMW-1	11/17/2011	626.53	629.03	616.54	606.54	14.73	5.29	20.02	13.37	613.16	-0.29	7.76	No	
LRMW-1	11/22/2011	626.53	629.03	616.54	606.54	14.78	5.24	20.02	13.41	613.12	-0.04	7.71	No	
LRMW-1	12/1/2011	626.53	629.03	616.54	606.54	15.03	5.04	20.07	13.61	612.92	-0.21	7.46	No	
LRMW-1	1/4/2012	626.53	629.03	616.54	606.54	15.60	4.51	20.11	14.07	612.46	-0.46	6.89	No	
LRMW-1	2/16/2012	626.53	629.03	616.54	606.54	16.50	3.61	20.11	14.78	611.75	-0.71	5.99	No	
LRMW-1	3/13/2012	626.53	629.03	616.54	606.54	18.37	1.70	20.07	16.24	610.29	-1.46	4.12	No	
LRMW-1	4/12/2012	626.53	629.03	616.54	606.54	15.41	4.63	20.04	13.90	612.63	2.33	7.08	No	Spill Buddy Before Reading
LRMW-1	4/16/2012	626.53	629.03	616.54	606.54	15.54	2.73	18.27	13.63	612.90	0.28	6.95	No	
LRMW-1	5/18/2012	626.53	629.03	616.54	606.54	14.52	3.01	17.53	12.67	613.86	0.96	7.97	No	
LRMW-1	6/28/2012	626.53	629.03	616.54	606.54	11.00	4.08	15.08	9.38	617.15	3.29	11.49	Yes	
LRMW-1	7/10/2012	626.53	629.03	616.54	606.54	12.57	3.11	15.68	10.74	615.79	-1.36	9.92	No	Spill Buddy Before Reading
LRMW-1	7/24/2012	626.53	629.03	616.54	606.54	14.26	1.02	15.28	11.98	614.55	-1.24	8.23	No	
LRMW-1	8/17/2012	626.53	629.03	616.54	606.54	14.87	1.06	15.93	12.60	613.93	-0.62	7.62	No	
LRMW-1	8/28/2012	626.53	629.03	616.54	606.54	15.22	1.12	16.34	12.96	613.57	-0.36	7.27	No	Spill Buddy Before Reading
LRMW-1	9/17/2012	626.53	629.03	616.54	606.54	16.03	0.45	16.48	13.63	612.90	-0.67	6.46	No	
LRMW-1	9/28/2012	626.53	629.03	616.54	606.54	16.32	0.45	16.77	13.92	612.61	-0.29	6.17	No	Spill Buddy Before Reading
LRMW-1	9/30/2012	626.53	629.03	616.54	606.54	16.40	0.20	16.60	13.94	612.59	-0.03	6.09	No	
LRMW-1	11/21/2012	626.53	629.03	616.54	606.54	16.66	0.26	16.92	14.22	612.31	-0.27	5.83	No	
LRMW-1	12/17/2012	626.53	629.03	616.54	606.54	16.84	0.26	17.10	14.40	612.13	-0.18	5.65	No	
LRMW-1	3/25/2013	626.53	629.03	616.54	606.54	17.91	0.31	18.22	15.48	611.05	-1.08	4.58	No	
LRMW-1	5/6/2013	626.53	629.03	616.54	606.54	15.32	0.18	15.50	12.86	613.67	2.62	7.17	No	
LRMW-1	10/3/2013	626.53	629.03	616.54	606.54	16.31	0.25	16.56	13.86	612.67	-1.01	6.18	No	
LRMW-1	5/22/2014	626.53	629.03	616.54	606.54	12.01	0.23	12.24	9.56	616.97	4.30	10.48	Yes	
LRMW-1	10/31/2014	626.53	629.03	616.54	606.54	14.53	0.16	14.69	12.06	614.47	-2.50	7.96	No	
LRMW-1	4/15/2015	626.53	629.03	616.54	606.54	16.27	0.18	16.45	13.81	612.72	-1.74	6.22	No	
LRMW-1	4/22/2015	626.53	629.03	616.54	606.54	15.63	0.09	15.72	13.15	613.38	0.66	6.86	No	
LRMW-1	4/29/2015	626.53	629.03	616.54	606.54	15.42	0.09	15.51	12.94	613.59	0.21	7.07	No	
LRMW-1	5/6/2015	626.53	629.03	616.54	606.54	15.43	0.09	15.52	12.95	613.58	-0.01	7.06	No	
LRMW-1	5/12/2015	626.53	629.03	616.54	606.54	14.80	0.07	14.87	12.32	614.21	0.63	7.69	No	

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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)	Comment
LRMW-1	6/9/2015	626.53	629.03	616.54	606.54	NP	0.00	13.73	11.23	615.30	1.09	8.76	No	
LRMW-1	10/5/2015	626.53	629.03	616.54	606.54	NP	0.00	13.80	11.30	615.23	-0.07	8.69	No	
LRMW-1	5/23/2016	626.53	629.03	616.54	606.54	NP	0.00	12.19	9.69	616.84	1.61	10.30	Yes	
LRMW-1	10/3/2016	626.53	629.03	616.54	606.54	NP	0.00	13.88	11.38	615.15	-1.69	8.61	No	
LRMW-1	5/2/2017	626.53	629.03	616.54	606.54	NP	0.00	12.03	9.53	617.00	1.85	10.46	Yes	
LRMW-1	5/22/2017	626.53	629.03	616.54	606.54	NP	0.00	10.89	8.39	618.14	1.14	11.60	Yes	
LRMW-1	5/31/2017	626.53	629.03	616.54	606.54	NP	0.00	11.00	8.50	618.03	-0.11	11.49	Yes	
LRMW-1	8/8/2017	626.53	629.03	616.54	606.54	NP	0.00	12.80	10.30	616.23	-1.80	9.69	No	
LRMW-1	8/15/2017	626.53	629.03	616.54	606.54	NP	0.00	12.05	9.55	616.98	0.75	10.44	Yes	
LRMW-1	5/30/2018	626.53	629.03	616.54	606.54	NP	0.00	13.82	11.32	615.21	-1.77	8.67	No	
LRMW-1	6/18/2018	626.53	629.03	616.54	606.54	NP	0.00	12.34	9.84	616.69	1.48	10.15	Yes	
LRMW-1	6/27/2018	626.53	629.03	616.54	606.54	NP	0.00	12.75	10.25	616.28	-0.41	9.74	No	
LRMW-2	2/8/2001	626.30	629.37	616.70	606.70	15.87	5.25	21.12	13.93	612.37	NA	6.80	No	
LRMW-2	2/23/2001	626.30	629.37	616.70	606.70	16.31	4.87	21.18	14.29	612.01	-0.36	6.36	No	
LRMW-2	4/24/2001	626.30	629.37	616.70	606.70	11.91	8.79	20.70	10.73	615.57	3.56	10.76	No	
LRMW-2	5/23/2001	626.30	629.37	616.70	606.70	11.04	10.08	21.12	10.14	616.16	0.59	11.63	No	
LRMW-2	10/24/2001	626.30	629.37	616.70	606.70	15.02	6.05	21.07	13.25	613.05	-3.11	7.65	No	
LRMW-2	12/20/2001	626.30	629.37	616.70	606.70	14.49	6.82	21.31	12.89	613.41	0.36	8.18	No	
LRMW-2	1/22/2002	626.30	629.37	616.70	606.70	15.53	5.79	21.32	13.70	612.60	-0.82	7.14	No	
LRMW-2	4/24/2002	626.30	629.37	616.70	606.70	13.67	7.64	21.31	12.24	614.06	1.46	9.00	No	
LRMW-2	5/15/2002	626.30	629.37	616.70	606.70	12.45	8.72	21.17	11.25	615.05	0.99	10.22	No	
LRMW-2	6/27/2002	626.30	629.37	616.70	606.70	12.77	8.33	21.10	11.49	614.81	-0.24	9.90	No	
LRMW-2	7/25/2002	626.30	629.37	616.70	606.70	13.33	7.82	21.15	11.94	614.36	-0.45	9.34	No	
LRMW-2	8/20/2002	626.30	629.37	616.70	606.70	12.58	8.48	21.06	11.33	614.97	0.61	10.09	No	
LRMW-2	9/9/2002	626.30	629.37	616.70	606.70	12.77	8.31	21.08	11.49	614.81	-0.15	9.90	No	
LRMW-2	9/30/2002	626.30	629.37	616.70	606.70	12.58	8.45	21.03	11.33	614.97	0.16	10.09	No	
LRMW-2	11/5/2002	626.30	629.37	616.70	606.70	12.20	8.80	21.00	11.02	615.28	0.30	10.47	No	
LRMW-2	12/23/2002	626.30	629.37	616.70	606.70	14.54	6.70	21.24	12.91	613.39	-1.89	8.13	No	
LRMW-2	1/28/2003	626.30	629.37	616.70	606.70	15.75	5.53	21.28	13.87	612.43	-0.96	6.92	No	
LRMW-2	2/19/2003	626.30	629.37	616.70	606.70	16.43	4.33	20.76	14.29	612.01	-0.42	6.24	No	
LRMW-2	4/17/2003	626.30	629.37	616.70	606.70	16.61	3.89	20.50	14.38	611.92	-0.09	6.06	No	
LRMW-2	5/15/2003	626.30	629.37	616.70	606.70	15.35	5.03	20.38	13.36	612.94	1.02	7.32	No	
LRMW-2	6/10/2003	626.30	629.37	616.70	606.70	14.83	5.45	20.28	12.93	613.37	0.43	7.84	No	
LRMW-2	7/30/2003	626.30	629.37	616.70	606.70	14.72	5.56	20.28	12.84	613.46	0.09	7.95	No	
LRMW-2	9/10/2003	626.30	629.37	616.70	606.70	16.23	4.24	20.47	14.07	612.23	-1.23	6.44	No	
LRMW-2	10/23/2003	626.30	629.37	616.70	606.70	16.38	4.07	20.45	14.18	612.12	-0.11	6.29	No	
LRMW-2	12/3/2003	626.93	629.41	616.74	606.74	16.57	3.66	20.23	14.88	612.05	-0.06	6.10	No	
LRMW-2	1/8/2004	626.93	629.41	616.74	606.74	17.23	3.31	20.54	15.46	611.47	-0.58	5.44	No	
LRMW-2	4/19/2004	626.93	629.41	616.74	606.74	15.55	5.19	20.74	14.19	612.74	1.28	7.12	No	
LRMW-2	7/27/2004	626.93	629.41	616.74	606.74	14.67	5.37	20.04	13.34	613.59	0.84	8.00	No	
LRMW-2	11/15/2004	626.93	629.41	616.74	606.74	13.28	6.36	19.64	12.17	614.76	1.18	9.39	No	

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LRMW-2	4/18/2005	626.93	629.41	616.74	606.74	13.31	6.67	19.98	12.26	614.67	-0.10	9.36	No	
LRMW-2	9/9/2005	626.93	629.41	616.74	606.74	15.30	4.71	20.01	13.83	613.10	-1.57	7.37	No	
LRMW-2	10/11/2005	626.93	629.41	616.74	606.74	13.28	5.81	19.09	12.05	614.88	1.78	9.39	No	
LRMW-2	5/23/2006	626.93	629.41	616.74	606.74	11.88	7.62	19.50	11.04	615.89	1.01	10.79	No	
LRMW-2	10/16/2006	626.93	629.41	616.74	606.74	15.38	4.46	19.84	13.86	613.07	-2.82	7.29	No	
LRMW-2	4/23/2007	626.93	629.41	616.74	606.74	15.04	4.64	19.68	13.56	613.37	0.30	7.63	No	
LRMW-2	9/25/2007	626.93	629.28	616.61	606.61	15.39	3.86	19.25	13.87	613.06	-0.31	7.28	No	
LRMW-2	5/1/2008	626.93	629.28	616.61	606.61	11.80	7.35	19.15	11.03	615.90	2.84	10.87	No	
LRMW-2	10/20/2008	626.93	629.28	616.61	606.61	12.13	6.59	18.72	11.20	615.73	-0.17	10.54	No	
LRMW-2	4/18/2009	626.93	629.28	616.61	606.61	13.22	5.59	18.81	12.07	614.86	-0.88	9.45	No	
LRMW-2	10/11/2009	626.93	629.28	616.61	606.61	14.70	4.95	19.65	13.41	613.52	-1.34	7.97	No	
LRMW-2	4/28/2010	626.93	629.28	616.61	606.61	14.44	4.96	19.40	13.16	613.77	0.26	8.23	No	
LRMW-2	10/25/2010	626.93	629.28	616.61	606.61	12.12	7.34	19.46	11.35	615.58	1.81	10.55	No	
LRMW-2	4/25/2011	626.93	629.28	616.61	606.61	12.73	6.01	18.74	11.67	615.26	-0.32	9.94	No	
LRMW-2	9/14/2011	626.93	629.28	616.61	606.61	13.01	7.07	20.08	12.18	614.75	-0.51	9.66	No	
LRMW-2	9/23/2011	626.93	629.28	616.61	606.61	13.47	6.26	19.73	12.47	614.46	-0.29	9.20	No	
LRMW-2	9/29/2011	626.93	629.28	616.61	606.61	13.60	6.04	19.64	12.55	614.38	-0.08	9.07	No	
LRMW-2	10/7/2011	626.93	629.28	616.61	606.61	13.87	5.71	19.58	12.75	614.18	-0.20	8.80	No	
LRMW-2	10/11/2011	626.93	629.28	616.61	606.61	14.39	5.60	19.99	13.24	613.69	-0.50	8.28	No	
LRMW-2	10/21/2011	626.93	629.28	616.61	606.61	14.25	5.36	19.61	13.05	613.88	0.19	8.42	No	
LRMW-2	10/27/2011	626.93	629.28	616.61	606.61	14.40	5.74	20.14	13.28	613.65	-0.23	8.27	No	
LRMW-2	11/3/2011	626.93	629.28	616.61	606.61	14.68	5.09	19.77	13.42	613.51	-0.14	7.99	No	
LRMW-2	11/9/2011	626.93	629.28	616.61	606.61	14.67	4.90	19.57	13.37	613.56	0.05	8.00	No	
LRMW-2	11/17/2011	626.93	629.28	616.61	606.61	15.02	4.71	19.73	13.68	613.25	-0.31	7.65	No	
LRMW-2	11/22/2011	626.93	629.28	616.61	606.61	15.07	4.56	19.63	13.70	613.23	-0.02	7.60	No	
LRMW-2	12/1/2011	626.93	629.28	616.61	606.61	15.30	4.52	19.82	13.92	613.01	-0.22	7.37	No	
LRMW-2	1/4/2012	626.93	629.28	616.61	606.61	15.90	3.86	19.76	14.38	612.55	-0.46	6.77	No	
LRMW-2	2/16/2012	626.93	629.28	616.61	606.61	16.80	2.94	19.74	15.08	611.85	-0.70	5.87	No	
LRMW-2	3/13/2012	626.93	629.28	616.61	606.61	16.78	2.67	19.45	15.00	611.93	0.08	5.89	No	
LRMW-2	4/11/2012	626.93	629.28	616.61	606.61	15.85	3.55	19.40	14.26	612.67	0.74	6.82	No	Spill Buddy Before Reading
LRMW-2	4/16/2012	626.93	629.28	616.61	606.61	16.02	1.29	17.31	13.95	612.98	0.32	6.65	No	
LRMW-2	5/18/2012	626.93	629.28	616.61	606.61	14.77	2.46	17.23	12.95	613.98	1.00	7.90	No	
LRMW-2	6/28/2012	626.93	629.28	616.61	606.61	11.15	4.19	15.34	9.70	617.23	3.25	11.52	Yes	
LRMW-2	7/10/2012	626.93	629.28	616.61	606.61	12.71	3.53	16.24	11.12	615.81	-1.42	9.96	No	Spill Buddy Before Reading
LRMW-2	7/24/2012	626.93	629.28	616.61	606.61	14.45	0.90	15.35	12.29	614.64	-1.17	8.22	No	
LRMW-2	8/17/2012	626.93	629.28	616.61	606.61	14.92	1.48	16.40	12.89	614.04	-0.59	7.75	No	
LRMW-2	8/28/2012	626.93	629.28	616.61	606.61	15.21	1.74	16.95	13.23	613.70	-0.35	7.46	No	Spill Buddy Before Reading
LRMW-2	9/17/2012	626.93	629.28	616.61	606.61	15.99	1.03	17.02	13.86	613.07	-0.63	6.68	No	
LRMW-2	9/28/2012	626.93	629.28	616.61	606.61	16.27	1.28	17.55	14.20	612.73	-0.33	6.40	No	Spill Buddy Before Reading
LRMW-2	9/30/2012	626.93	629.28	616.61	606.61	16.43	0.43	16.86	14.17	612.76	0.02	6.24	No	
LRMW-2	11/21/2012	626.93	629.28	616.61	606.61	16.60	1.10	17.70	14.49	612.44	-0.31	6.07	No	

Table 4
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)	Comment
LRMW-2	12/17/2012	626.93	629.28	616.61	606.61	16.72	1.37	18.09	14.66	612.27	-0.18	5.95	No	
LRMW-2	3/25/2013	626.93	629.28	616.61	606.61	17.75	1.69	19.44	15.76	611.17	-1.10	4.92	No	
LRMW-2	5/6/2013	626.93	629.28	616.61	606.61	15.10	1.99	17.09	13.18	613.75	2.59	7.57	No	
LRMW-2	10/3/2013	626.93	629.28	616.61	606.61	15.96	2.55	18.51	14.16	612.77	-0.98	6.71	No	
LRMW-2	5/22/2014	626.93	629.28	616.61	606.61	11.28	4.33	15.61	9.86	617.07	4.30	11.39	Yes	
LRMW-2	10/31/2014	626.93	629.28	616.61	606.61	13.87	3.78	17.65	12.33	614.60	-2.47	8.80	No	
LRMW-2	5/6/2015	626.93	629.28	616.61	606.61	14.82	3.73	18.55	13.27	613.66	-0.94	7.85	No	
LRMW-2	10/5/2015	626.93	629.28	616.61	606.61	12.90	5.00	17.90	11.62	615.31	1.65	9.77	No	
LRMW-2	5/23/2016	626.93	629.28	616.61	606.61	11.35	4.58	15.93	9.98	616.95	1.64	11.32	Yes	
LRMW-2	10/3/2016	626.93	629.28	616.61	606.61	12.90	5.12	18.02	11.65	615.28	-1.67	9.77	No	
LRMW-2	5/2/2017	626.93	629.28	616.61	606.61	10.88	7.03	17.91	10.04	616.89	1.61	11.79	Yes	
LRMW-2	5/22/2017	626.93	629.28	616.61	606.61	10.64	2.22	12.86	8.77	618.16	1.27	12.03	Yes	
LRMW-2	5/25/2017	626.93	629.28	616.61	606.61	10.64	2.25	12.89	8.77	618.16	-0.01	12.03	Yes	
LRMW-2	5/31/2017	626.93	629.28	616.61	606.61	11.20	0.35	11.55	8.93	618.00	-0.15	11.47	Yes	
LRMW-2	6/21/2017	626.93	629.28	616.61	606.61	12.90	0.28	13.18	10.61	616.32	-1.68	9.77	No	
LRMW-2	8/8/2017	626.93	629.28	616.61	606.61	13.02	0.70	13.72	10.82	616.11	-0.21	9.65	No	
LRMW-2	8/15/2017	626.93	629.28	616.61	606.61	12.31	0.89	13.20	10.15	616.78	0.67	10.36	Yes	
LRMW-2	10/26/2017	626.93	629.28	616.61	606.61	11.47	0.41	11.88	9.21	617.72	1.40	11.20	Yes	
LRMW-3	2/8/2001	627.38	630.47	617.99	607.99	NP	0.00	17.35	14.26	613.12	NA	5.13	No	
LRMW-3	2/23/2001	627.38	630.47	617.99	607.99	17.35	0.06	17.41	14.27	613.11	-0.01	5.13	No	
LRMW-3	4/24/2001	627.38	630.47	617.99	607.99	14.45	0.01	14.46	11.36	616.02	2.91	8.03	No	
LRMW-3	5/23/2001	627.38	630.47	617.99	607.99	NP	0.00	13.67	10.58	616.80	0.78	8.81	No	
LRMW-3	10/24/2001	627.38	630.47	617.99	607.99	16.67	1.09	17.76	13.81	613.57	-3.23	5.81	No	
LRMW-3	12/20/2001	627.40	630.47	617.99	607.99	16.37	0.17	16.54	13.34	614.06	0.50	6.11	No	
LRMW-3	1/22/2002	627.40	630.47	617.99	607.99	17.14	0.17	17.31	14.11	613.29	-0.77	5.34	No	
LRMW-3	4/24/2002	627.40	630.47	617.99	607.99	15.43	1.81	17.24	12.75	614.65	1.36	7.05	No	
LRMW-3	5/15/2002	627.40	630.47	617.99	607.99	14.30	2.22	16.52	11.71	615.69	1.04	8.18	No	
LRMW-3	6/27/2002	627.40	630.47	617.99	607.99	14.39	2.75	17.14	11.91	615.49	-0.20	8.09	No	
LRMW-3	7/25/2002	627.40	630.47	617.99	607.99	14.75	2.91	17.66	12.31	615.09	-0.39	7.73	No	
LRMW-3	8/20/2002	627.40	630.47	617.99	607.99	14.15	3.01	17.16	11.73	615.67	0.58	8.33	No	
LRMW-3	9/30/2002	627.40	630.47	617.99	607.99	14.10	3.05	17.15	11.69	615.71	0.04	8.38	No	
LRMW-3	11/5/2002	627.40	630.47	617.99	607.99	13.73	3.08	16.81	11.32	616.08	0.36	8.75	No	
LRMW-3	12/23/2002	627.40	630.47	617.99	607.99	15.45	3.15	18.60	13.06	614.34	-1.74	7.03	No	
LRMW-3	1/28/2003	627.40	630.47	617.99	607.99	16.37	4.13	20.50	14.19	613.21	-1.13	6.11	No	
LRMW-3	2/19/2003	627.40	630.47	617.99	607.99	16.77	3.72	20.49	14.50	612.90	-0.31	5.71	No	
LRMW-3	4/17/2003	627.40	630.47	617.99	607.99	17.00	3.65	20.65	14.71	612.69	-0.21	5.48	No	
LRMW-3	5/15/2003	627.40	630.47	617.99	607.99	15.77	4.74	20.51	13.72	613.68	1.00	6.71	No	
LRMW-3	6/10/2003	627.40	630.47	617.99	607.99	15.19	5.45	20.64	13.29	614.11	0.43	7.29	No	
LRMW-3	7/30/2003	627.40	630.47	617.99	607.99	14.93	5.75	20.68	13.10	614.30	0.20	7.55	No	
LRMW-3	10/23/2003	627.40	630.47	617.99	607.99	16.69	3.86	20.55	14.45	612.95	-1.35	5.79	No	

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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)	Comment
LRMW-3	12/3/2003	628.06	630.45	617.97	607.97	16.90	3.63	20.53	15.29	612.77	-0.18	5.58	No	
LRMW-3	1/8/2004	628.06	630.45	617.97	607.97	17.53	3.23	20.76	15.83	612.23	-0.54	4.95	No	
LRMW-3	4/19/2004	628.06	630.45	617.97	607.97	16.28	4.35	20.63	14.82	613.24	1.01	6.20	No	
LRMW-3	7/27/2004	628.06	630.45	617.97	607.97	14.87	5.80	20.67	13.73	614.33	1.10	7.61	No	
LRMW-3	11/15/2004	628.06	630.45	617.97	607.97	13.49	7.65	21.14	12.74	615.32	0.98	8.99	No	
LRMW-3	4/18/2005	628.06	630.45	617.97	607.97	13.79	6.18	19.97	12.73	615.33	0.02	8.69	No	
LRMW-3	9/9/2005	628.06	630.45	617.97	607.97	15.40	4.89	20.29	14.06	614.00	-1.33	7.08	No	
LRMW-3	10/11/2005	628.06	630.45	617.97	607.97	12.87	7.23	20.10	12.03	616.03	2.03	9.61	No	
LRMW-3	5/23/2006	628.06	630.45	617.97	607.97	11.90	8.06	19.96	11.24	616.82	0.79	10.58	No	
LRMW-3	10/16/2006	628.06	630.45	617.97	607.97	15.52	4.72	20.24	14.14	613.92	-2.90	6.96	No	
LRMW-3	4/23/2007	628.06	630.45	617.97	607.97	15.40	4.79	20.19	14.04	614.02	0.10	7.08	No	
LRMW-3	9/25/2007	628.06	630.45	617.97	607.97	16.40	1.93	18.33	14.42	613.64	-0.39	6.08	No	
LRMW-3	5/1/2008	628.06	630.45	617.97	607.97	12.20	6.28	18.48	11.16	616.90	3.27	10.28	No	
LRMW-3	10/20/2008	628.06	630.45	617.97	607.97	12.48	6.89	19.37	11.57	616.49	-0.41	10.00	No	
LRMW-3	4/18/2009	628.06	630.45	617.97	607.97	13.66	5.63	19.29	12.48	615.58	-0.91	8.82	No	
LRMW-3	10/11/2009	628.06	630.45	617.97	607.97	14.93	5.40	20.33	13.70	614.36	-1.22	7.55	No	
LRMW-3	4/28/2010	628.06	630.45	617.97	607.97	14.54	5.61	20.15	13.36	614.70	0.34	7.94	No	
LRMW-3	10/25/2010	628.06	630.45	617.97	607.97	12.29	7.46	19.75	11.50	616.56	1.85	10.19	No	
LRMW-3	4/25/2011	628.06	630.45	617.97	607.97	12.84	7.01	19.85	11.96	616.10	-0.45	9.64	No	
LRMW-3	9/14/2011	628.06	630.45	617.97	607.97	13.09	7.20	20.29	12.25	615.81	-0.29	9.39	No	
LRMW-3	9/23/2011	628.06	630.45	617.97	607.97	13.51	6.60	20.11	12.54	615.52	-0.29	8.97	No	
LRMW-3	9/29/2011	628.06	630.45	617.97	607.97	13.63	6.42	20.05	12.62	615.44	-0.08	8.85	No	
LRMW-3	10/7/2011	628.06	630.45	617.97	607.97	13.97	5.98	19.95	12.86	615.20	-0.25	8.51	No	
LRMW-3	10/11/2011	628.06	630.45	617.97	607.97	14.26	6.28	20.54	13.22	614.84	-0.35	8.22	No	
LRMW-3	10/21/2011	628.06	630.45	617.97	607.97	14.38	5.75	20.13	13.23	614.83	-0.01	8.10	No	
LRMW-3	10/27/2011	628.06	630.45	617.97	607.97	14.49	5.65	20.14	13.31	614.75	-0.09	7.99	No	
LRMW-3	11/3/2011	628.06	630.45	617.97	607.97	14.79	5.45	20.24	13.57	614.49	-0.26	7.69	No	
LRMW-3	11/9/2011	628.06	630.45	617.97	607.97	14.81	5.21	20.02	13.54	614.52	0.03	7.67	No	
LRMW-3	11/17/2011	628.06	630.45	617.97	607.97	15.15	5.07	20.22	13.85	614.21	-0.31	7.33	No	
LRMW-3	11/22/2011	628.06	630.45	617.97	607.97	15.22	4.90	20.12	13.88	614.18	-0.03	7.26	No	
LRMW-3	12/1/2011	628.06	630.45	617.97	607.97	15.43	5.14	20.57	14.14	613.92	-0.26	7.05	No	
LRMW-3	1/4/2012	628.06	630.45	617.97	607.97	16.02	4.46	20.48	14.59	613.47	-0.44	6.46	No	
LRMW-3	2/16/2012	628.06	630.45	617.97	607.97	16.94	3.57	20.51	15.32	612.74	-0.73	5.54	No	
LRMW-3	3/13/2012	628.06	630.45	617.97	607.97	16.99	3.39	20.38	15.33	612.73	-0.01	5.49	No	
LRMW-3	4/11/2012	628.06	630.45	617.97	607.97	16.21	3.89	20.10	14.66	613.40	0.67	6.27	No	Spill Buddy Before Reading
LRMW-3	4/16/2012	628.06	630.45	617.97	607.97	16.09	3.64	19.73	14.48	613.58	0.17	6.39	No	
LRMW-3	5/18/2012	628.06	630.45	617.97	607.97	14.45	5.49	19.94	13.24	614.82	1.24	8.03	No	
LRMW-3	6/28/2012	628.06	630.45	617.97	607.97	10.26	9.55	19.81	9.92	618.14	3.32	12.22	Yes	
LRMW-3	7/10/2012	628.06	630.45	617.97	607.97	11.97	7.86	19.83	11.27	616.79	-1.35	10.51	No	Spill Buddy Before Reading
LRMW-3	7/24/2012	628.06	630.45	617.97	607.97	13.62	5.36	18.98	12.38	615.68	-1.11	8.86	No	
LRMW-3	8/17/2012	628.06	630.45	617.97	607.97	14.18	5.71	19.89	13.02	615.04	-0.64	8.30	No	

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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)	Comment
LRMW-3	8/28/2012	628.06	630.45	617.97	607.97	14.64	5.15	19.79	13.36	614.70	-0.34	7.84	No	Spill Buddy Before Reading
LRMW-3	9/17/2012	628.06	630.45	617.97	607.97	15.43	4.50	19.93	14.01	614.05	-0.65	7.05	No	
LRMW-3	9/28/2012	628.06	630.45	617.97	607.97	15.84	4.08	19.92	14.33	613.73	-0.32	6.64	No	Spill Buddy Before Reading
LRMW-3	9/30/2012	628.06	630.45	617.97	607.97	16.44	1.54	17.98	14.38	613.68	-0.05	6.04	No	
LRMW-3	11/21/2012	628.06	630.45	617.97	607.97	16.35	3.59	19.94	14.73	613.33	-0.35	6.13	No	
LRMW-3	12/17/2012	628.06	630.45	617.97	607.97	16.61	3.40	20.01	14.95	613.11	-0.22	5.87	No	
LRMW-3	3/25/2013	628.06	630.45	617.97	607.97	17.91	2.51	20.42	16.06	612.00	-1.11	4.57	No	
LRMW-3	5/6/2013	628.06	630.45	617.97	607.97	15.10	4.64	19.74	13.71	614.35	2.35	7.38	No	
LRMW-3	10/3/2013	628.06	630.45	617.97	607.97	15.95	4.16	20.11	14.45	613.61	-0.75	6.53	No	
LRMW-3	5/22/2014	628.06	630.45	617.97	607.97	10.56	9.22	19.78	10.15	617.91	4.30	11.92	No	
LRMW-3	10/31/2014	628.06	630.45	617.97	607.97	13.43	6.66	20.09	12.47	615.59	-2.32	9.05	No	
LRMW-3	4/15/2015	628.06	630.45	617.97	607.97	16.00	4.25	20.25	14.52	613.54	-2.05	6.48	No	
LRMW-3	4/22/2015	628.06	630.45	617.97	607.97	15.29	4.81	20.10	13.93	614.13	0.59	7.19	No	
LRMW-3	4/29/2015	628.06	630.45	617.97	607.97	15.02	4.85	19.87	13.67	614.39	0.26	7.46	No	
LRMW-3	5/6/2015	628.06	630.45	617.97	607.97	15.13	4.26	19.39	13.66	614.40	0.02	7.35	No	
LRMW-3	5/12/2015	628.06	630.45	617.97	607.97	14.33	5.54	19.87	13.13	614.93	0.52	8.15	No	
LRMW-3	6/9/2015	628.06	630.45	617.97	607.97	12.78	7.00	19.78	11.89	616.17	1.24	9.70	No	
LRMW-3	10/5/2015	628.06	630.45	617.97	607.97	12.66	7.10	19.76	11.80	616.26	0.10	9.82	No	
LRMW-3	5/23/2016	628.06	630.45	617.97	607.97	10.30	9.44	19.74	9.94	618.12	1.86	12.18	Yes	
LRMW-3	10/3/2016	628.06	630.45	617.97	607.97	12.57	7.18	19.75	11.72	616.34	-1.78	9.91	No	
LRMW-3	5/22/2017	628.06	630.45	617.97	607.97	8.78	10.85	19.63	8.72	619.34	3.00	13.70	Yes	
LRMW-3	5/31/2017	628.06	630.45	617.97	607.97	9.85	6.58	16.43	8.87	619.19	-0.15	12.63	Yes	
LRMW-3	6/29/2017	628.06	630.45	617.97	607.97	11.92	5.97	17.89	10.81	617.25	-1.94	10.56	No	
LRMW-3	8/8/2017	628.06	630.45	617.97	607.97	11.42	7.53	18.95	10.65	617.41	0.16	11.06	No	
LRMW-3	8/15/2017	628.06	630.45	617.97	607.97	11.66	3.29	14.95	9.98	618.08	0.67	10.82	Yes	
LRMW-3	8/22/2017	628.06	630.45	617.97	607.97	11.35	3.28	14.63	9.66	618.40	0.31	11.13	Yes	
LRMW-3	10/26/2017	628.06	630.45	617.97	607.97	8.91	10.68	19.59	8.81	619.25	2.00	13.57	Yes	
LRMW-4	2/8/2001	625.47	628.75	616.08	606.08	15.17	5.20	20.37	13.05	612.42	NA	7.50	No	
LRMW-4	2/23/2001	625.47	628.75	616.08	606.08	15.60	4.85	20.45	13.40	612.07	-0.35	7.07	No	
LRMW-4	4/24/2001	625.47	628.75	616.08	606.08	11.23	11.27	22.50	10.47	615.00	2.94	11.44	No	
LRMW-4	5/23/2001	625.47	628.75	616.08	606.08	10.34	10.16	20.50	9.33	616.14	1.14	12.33	Yes	
LRMW-4	10/24/2001	625.47	628.75	616.08	606.08	14.35	6.12	20.47	12.44	613.03	-3.11	8.32	No	
LRMW-4	12/20/2001	625.50	628.75	616.08	606.08	13.81	6.85	20.66	12.09	613.41	0.38	8.86	No	
LRMW-4	1/22/2002	625.50	628.75	616.08	606.08	14.81	5.94	20.75	12.89	612.61	-0.80	7.86	No	
LRMW-4	4/24/2002	625.50	628.75	616.08	606.08	12.98	7.65	20.63	11.44	614.06	1.45	9.69	No	
LRMW-4	5/15/2002	625.50	628.75	616.08	606.08	11.75	8.78	20.53	10.46	615.04	0.98	10.92	No	
LRMW-4	6/27/2002	625.50	628.75	616.08	606.08	12.07	8.38	20.45	10.69	614.81	-0.23	10.60	No	
LRMW-4	7/25/2002	625.50	628.75	616.08	606.08	12.63	7.92	20.55	11.15	614.35	-0.46	10.04	No	
LRMW-4	8/20/2002	625.50	628.75	616.08	606.08	11.88	8.54	20.42	10.54	614.96	0.61	10.79	No	
LRMW-4	9/9/2002	625.50	628.75	616.08	606.08	12.04	8.43	20.47	10.67	614.83	-0.14	10.63	No	

Table 4
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)	Comment
LRMW-4	9/30/2002	625.50	628.75	616.08	606.08	11.91	8.54	20.45	10.57	614.93	0.11	10.76	No	
LRMW-4	11/5/2002	625.50	628.75	616.08	606.08	11.48	8.99	20.47	10.24	615.26	0.33	11.19	No	
LRMW-4	12/23/2002	625.50	628.75	616.08	606.08	13.86	6.70	20.56	12.11	613.39	-1.87	8.81	No	
LRMW-4	1/28/2003	625.50	628.75	616.08	606.08	15.06	5.45	20.51	13.03	612.47	-0.92	7.61	No	
LRMW-4	2/19/2003	625.50	628.75	616.08	606.08	15.67	4.60	20.27	13.45	612.05	-0.42	7.00	No	
LRMW-4	4/17/2003	625.50	628.75	616.08	606.08	15.89	4.06	19.95	13.55	611.95	-0.10	6.78	No	
LRMW-4	5/15/2003	625.50	628.75	616.08	606.08	14.52	5.32	19.84	12.46	613.04	1.09	8.15	No	
LRMW-4	6/10/2003	625.50	628.75	616.08	606.08	14.08	5.79	19.87	12.12	613.38	0.33	8.59	No	
LRMW-4	7/30/2003	625.50	628.75	616.08	606.08	13.97	5.91	19.88	12.04	613.46	0.08	8.70	No	
LRMW-4	9/10/2003	625.50	628.75	616.08	606.08	15.46	4.61	20.07	13.24	612.26	-1.20	7.21	No	
LRMW-4	10/23/2003	625.50	628.75	616.08	606.08	15.61	4.44	20.05	13.35	612.15	-0.11	7.06	No	
LRMW-4	12/3/2003	625.49	628.70	616.03	606.03	15.84	3.98	19.82	13.52	611.97	-0.18	6.83	No	
LRMW-4	1/8/2004	625.49	628.70	616.03	606.03	16.53	3.42	19.95	14.08	611.41	-0.56	6.14	No	
LRMW-4	4/19/2004	625.49	628.70	616.03	606.03	14.86	5.22	20.08	12.82	612.67	1.27	7.81	No	
LRMW-4	7/27/2004	625.49	628.70	616.03	606.03	13.91	5.78	19.69	11.99	613.50	0.82	8.76	No	
LRMW-4	11/15/2004	625.49	628.70	616.03	606.03	12.46	7.21	19.67	10.86	614.63	1.13	10.21	No	
LRMW-4	4/18/2005	625.49	628.70	616.03	606.03	12.55	7.04	19.59	10.91	614.58	-0.05	10.12	No	
LRMW-4	9/9/2005	625.49	628.70	616.03	606.03	14.57	4.91	19.48	12.46	613.03	-1.54	8.10	No	
LRMW-4	10/11/2005	625.49	628.70	616.03	606.03	11.80	7.70	19.50	10.31	615.18	2.15	10.87	No	
LRMW-4	5/23/2006	625.49	628.70	616.03	606.03	11.22	7.95	19.17	9.79	615.70	0.52	11.45	No	
LRMW-4	10/16/2006	625.49	628.70	616.03	606.03	14.62	4.81	19.43	12.49	613.00	-2.70	8.05	No	
LRMW-4	4/23/2007	625.49	628.70	616.03	606.03	14.09	5.58	19.67	12.13	613.36	0.36	8.58	No	
LRMW-4	9/25/2007	625.49	628.53	615.86	605.86	14.38	4.97	19.35	12.45	613.04	-0.32	8.29	No	
LRMW-4	5/1/2008	625.49	628.53	615.86	605.86	10.74	7.97	18.71	9.48	616.01	2.97	11.93	Yes	
LRMW-4	10/20/2008	625.49	628.53	615.86	605.86	11.03	7.78	18.81	9.73	615.76	-0.25	11.64	No	
LRMW-4	8/31/2011	625.49	628.53	615.86	605.86	11.26	7.55	18.81	9.91	615.58	-0.18	11.41	No	
LRMW-4	9/14/2011	625.49	628.53	615.86	605.86	12.50	6.34	18.84	10.88	614.61	-0.97	10.17	No	
LRMW-4	9/23/2011	625.49	628.53	615.86	605.86	12.84	5.99	18.83	11.14	614.35	-0.26	9.83	No	
LRMW-4	9/29/2011	625.49	628.53	615.86	605.86	12.95	5.97	18.92	11.24	614.25	-0.11	9.72	No	
LRMW-4	10/7/2011	625.49	628.53	615.86	605.86	13.22	5.63	18.85	11.44	614.05	-0.19	9.45	No	
LRMW-4	10/11/2011	625.49	628.53	615.86	605.86	13.77	4.98	18.75	11.84	613.65	-0.40	8.90	No	
LRMW-4	10/21/2011	625.49	628.53	615.86	605.86	13.62	5.22	18.84	11.75	613.74	0.10	9.05	No	
LRMW-4	10/27/2011	625.49	628.53	615.86	605.86	13.76	5.09	18.85	11.86	613.63	-0.11	8.91	No	
LRMW-4	11/3/2011	625.49	628.53	615.86	605.86	14.08	4.77	18.85	12.11	613.38	-0.25	8.59	No	
LRMW-4	11/9/2011	625.49	628.53	615.86	605.86	14.02	4.82	18.84	12.06	613.43	0.05	8.65	No	
LRMW-4	11/17/2011	625.49	628.53	615.86	605.86	14.40	4.45	18.85	12.35	613.14	-0.30	8.27	No	
LRMW-4	11/22/2011	625.49	628.53	615.86	605.86	14.43	4.47	18.90	12.39	613.10	-0.03	8.24	No	
LRMW-4	12/1/2011	625.49	628.53	615.86	605.86	14.72	4.25	18.97	12.63	612.86	-0.24	7.95	No	
LRMW-4	1/4/2012	625.49	628.53	615.86	605.86	15.25	3.77	19.02	13.05	612.44	-0.42	7.42	No	
LRMW-4	2/16/2012	625.49	628.53	615.86	605.86	16.13	2.91	19.04	13.74	611.75	-0.69	6.54	No	
LRMW-4	3/13/2012	625.49	628.53	615.86	605.86	16.05	2.84	18.89	13.64	611.85	0.10	6.62	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)	Comment
LRMW-4	4/12/2012	625.49	628.53	615.86	605.86	15.10	3.94	19.04	12.94	612.55	0.70	7.57	No	Spill Buddy Before Reading
LRMW-4	4/16/2012	625.49	628.53	615.86	605.86	14.76	4.18	18.94	12.65	612.84	0.29	7.91	No	
LRMW-4	5/18/2012	625.49	628.53	615.86	605.86	13.40	5.68	19.08	11.63	613.86	1.02	9.27	No	
LRMW-4	6/28/2012	625.49	628.53	615.86	605.86	9.34	9.50	18.84	8.42	617.07	3.21	13.33	Yes	
LRMW-4	7/10/2012	625.49	628.53	615.86	605.86	11.05	7.90	18.95	9.78	615.71	-1.35	11.62	No	Spill Buddy Before Reading
LRMW-4	7/24/2012	625.49	628.53	615.86	605.86	12.52	6.43	18.95	10.92	614.57	-1.14	10.15	No	
LRMW-4	8/17/2012	625.49	628.53	615.86	605.86	13.34	5.56	18.90	11.54	613.95	-0.63	9.33	No	
LRMW-4	8/28/2012	625.49	628.53	615.86	605.86	13.80	5.04	18.84	11.89	613.60	-0.34	8.87	No	Spill Buddy Before Reading
LRMW-4	9/17/2012	625.49	628.53	615.86	605.86	14.01	4.89	18.90	12.06	613.43	-0.18	8.66	No	
LRMW-4	9/28/2012	625.49	628.53	615.86	605.86	15.02	3.86	18.88	12.84	612.65	-0.78	7.65	No	Spill Buddy Before Reading
LRMW-4	9/30/2012	625.49	628.53	615.86	605.86	15.07	3.60	18.67	12.83	612.66	0.01	7.60	No	
LRMW-4	11/21/2012	625.49	628.53	615.86	605.86	15.42	3.40	18.82	13.14	612.35	-0.31	7.25	No	
LRMW-4	12/17/2012	625.49	628.53	615.86	605.86	15.66	3.17	18.83	13.33	612.16	-0.19	7.01	No	
LRMW-4	3/25/2013	625.49	628.53	615.86	605.86	17.03	1.77	18.80	14.39	611.10	-1.06	5.64	No	
LRMW-4	5/6/2013	625.49	628.53	615.86	605.86	13.82	4.91	18.73	11.88	613.61	2.51	8.85	No	
LRMW-4	10/3/2013	625.49	628.53	615.86	605.86	15.04	3.71	18.75	12.83	612.66	-0.95	7.63	No	
LRMW-4	5/22/2014	625.49	628.53	615.86	605.86	9.61	5.84	15.45	7.88	617.61	4.95	13.06	Yes	
LRMW-4	10/31/2014	625.49	628.53	615.86	605.86	12.75	5.74	18.49	10.99	614.50	-3.12	9.92	No	
LRMW-4	4/15/2015	625.49	628.53	615.86	605.86	14.95	3.55	18.50	12.70	612.79	-1.71	7.72	No	
LRMW-4	4/22/2015	625.49	628.53	615.86	605.86	14.24	4.17	18.41	12.13	613.36	0.57	8.43	No	
LRMW-4	4/29/2015	625.49	628.53	615.86	605.86	14.28	2.97	17.25	11.90	613.59	0.23	8.39	No	
LRMW-4	5/6/2015	625.49	628.53	615.86	605.86	14.33	2.82	17.15	11.92	613.57	-0.02	8.34	No	
LRMW-4	5/12/2015	625.49	628.53	615.86	605.86	13.23	5.06	18.29	11.32	614.17	0.60	9.44	No	
LRMW-4	6/9/2015	625.49	628.53	615.86	605.86	11.81	6.57	18.38	10.24	615.25	1.08	10.86	No	
LRMW-4	10/5/2015	625.49	628.53	615.86	605.86	12.00	5.85	17.85	10.27	615.22	-0.03	10.67	No	
LRMW-4	5/23/2016	625.49	628.53	615.86	605.86	9.70	8.90	18.60	8.65	616.84	1.62	12.97	Yes	
LRMW-4	10/3/2016	625.49	628.53	615.86	605.86	11.87	6.81	18.68	10.35	615.14	-1.70	10.80	No	
LRMW-4	5/2/2017	625.49	628.53	615.86	605.86	9.73	8.93	18.66	8.69	616.80	1.67	12.94	Yes	
LRMW-4	5/18/2017	625.49	628.53	615.86	605.86	10.02	7.48	17.50	8.65	616.84	0.03	12.65	Yes	
LRMW-4	5/22/2017	625.49	628.53	615.86	605.86	9.38	4.80	14.18	7.41	618.08	1.24	13.29	Yes	
LRMW-4	5/25/2017	625.49	628.53	615.86	605.86	9.99	3.16	13.15	7.66	617.83	-0.24	12.68	Yes	
LRMW-4	5/31/2017	625.49	628.53	615.86	605.86	9.54	4.29	13.83	7.46	618.03	0.20	13.13	Yes	
LRMW-4	6/29/2017	625.49	628.53	615.86	605.86	10.56	7.97	18.53	9.30	616.19	-1.84	12.11	Yes	
LRMW-4	7/7/2017	625.49	628.53	615.86	605.86	10.88	4.02	14.90	8.74	616.75	0.56	11.79	Yes	
LRMW-4	7/12/2017	625.49	628.53	615.86	605.86	11.12	2.44	13.56	8.63	616.86	0.11	11.55	Yes	
LRMW-4	7/19/2017	625.49	628.53	615.86	605.86	11.13	2.13	13.26	8.57	616.92	0.06	11.54	Yes	
LRMW-4	7/26/2017	625.49	628.53	615.86	605.86	11.34	2.35	13.69	8.83	616.66	-0.26	11.33	Yes	
LRMW-4	8/4/2017	625.49	628.53	615.86	605.86	11.83	1.52	13.35	9.13	616.36	-0.30	10.84	Yes	
LRMW-4	8/8/2017	625.49	628.53	615.86	605.86	11.91	1.69	13.60	9.25	616.24	-0.12	10.76	Yes	
LRMW-4	8/15/2017	625.49	628.53	615.86	605.86	11.07	2.16	13.23	8.51	616.98	0.73	11.60	Yes	
LRMW-4	8/22/2017	625.49	628.53	615.86	605.86	10.84	1.88	12.72	8.22	617.27	0.29	11.83	Yes	

Table 4
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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)	Comment
LRMW-4	10/26/2017	625.49	628.53	615.86	605.86	9.51	5.16	14.67	7.62	617.87	1.68	13.16	Yes	
LRMW-5	2/8/2001	626.05	629.37	615.90	605.90	17.03	0.07	17.10	13.73	612.32	NA	6.44	No	
LRMW-5	2/23/2001	626.05	629.37	615.90	605.90	17.35	0.16	17.51	14.06	611.99	-0.34	6.12	No	
LRMW-5	4/24/2001	626.05	629.37	615.90	605.90	15.12	0.10	15.22	11.82	614.23	2.24	8.35	No	
LRMW-5	5/23/2001	626.05	629.37	615.90	605.90	14.51	0.31	14.82	11.26	614.79	0.56	8.96	No	
LRMW-5	10/24/2001	626.05	629.37	615.90	605.90	15.83	2.20	18.03	12.98	613.07	-1.73	7.64	No	
LRMW-5	12/20/2001	626.10	629.37	615.90	605.90	15.09	1.93	17.02	12.23	613.87	0.80	8.38	No	
LRMW-5	1/22/2002	626.10	629.37	615.90	605.90	15.89	2.14	18.03	13.08	613.02	-0.85	7.58	No	
LRMW-5	4/24/2002	626.10	629.37	615.90	605.90	14.29	0.94	15.23	11.22	614.88	1.86	9.18	No	
LRMW-5	5/15/2002	626.10	629.37	615.90	605.90	13.74	0.32	14.06	10.54	615.56	0.68	9.73	No	
LRMW-5	6/27/2002	626.10	629.37	615.90	605.90	13.93	0.45	14.38	10.76	615.34	-0.22	9.54	No	
LRMW-5	7/25/2002	626.10	629.37	615.90	605.90	14.43	1.14	15.57	11.40	614.70	-0.65	9.04	No	
LRMW-5	8/20/2002	626.10	629.37	615.90	605.90	NP	0.00	14.55	11.28	614.82	0.12	8.92	No	
LRMW-5	9/30/2002	626.10	629.37	615.90	605.90	14.06	0.67	14.73	10.93	615.17	0.35	9.41	No	
LRMW-5	11/5/2002	626.10	629.37	615.90	605.90	13.66	0.42	14.08	10.48	615.62	0.45	9.81	No	
LRMW-5	12/23/2002	626.10	629.37	615.90	605.90	14.97	2.25	17.22	12.18	613.92	-1.70	8.50	No	
LRMW-5	1/28/2003	626.10	629.37	615.90	605.90	15.84	2.44	18.28	13.09	613.01	-0.91	7.63	No	
LRMW-5	2/19/2003	626.10	629.37	615.90	605.90	16.56	2.38	18.94	13.80	612.30	-0.71	6.91	No	
LRMW-5	4/17/2003	626.10	629.37	615.90	605.90	16.78	1.93	18.71	13.92	612.18	-0.12	6.69	No	
LRMW-5	5/15/2003	626.10	629.37	615.90	605.90	15.38	2.16	17.54	12.57	613.53	1.35	8.09	No	
LRMW-5	6/10/2003	626.10	629.37	615.90	605.90	14.99	2.50	17.49	12.26	613.84	0.32	8.48	No	
LRMW-5	7/30/2003	626.10	629.37	615.90	605.90	15.01	2.59	17.60	12.30	613.80	-0.04	8.46	No	
LRMW-5	9/10/2003	626.10	629.37	615.90	605.90	16.39	2.92	19.31	13.75	612.35	-1.45	7.08	No	
LRMW-5	10/23/2003	626.10	629.37	615.90	605.90	16.66	2.73	19.39	13.98	612.12	-0.23	6.81	No	
LRMW-5	12/3/2003	626.69	629.37	615.90	605.90	16.72	2.72	19.44	14.62	612.07	-0.06	6.75	No	
LRMW-5	1/8/2004	626.69	629.37	615.90	605.90	17.30	2.66	19.96	15.19	611.50	-0.57	6.17	No	
LRMW-5	2/24/2004	626.69	629.37	615.90	605.90	17.89	2.59	20.48	15.77	610.92	-0.57	5.58	No	
LRMW-5	4/19/2004	626.69	629.37	615.90	605.90	15.30	3.51	18.81	13.37	613.32	2.39	8.17	No	
LRMW-5	7/27/2004	626.69	629.37	615.90	605.90	14.65	3.65	18.30	12.75	613.94	0.62	8.82	No	
LRMW-5	11/16/2004	626.69	629.37	615.90	605.90	13.96	2.40	16.36	11.80	614.89	0.96	9.51	No	
LRMW-5	4/18/2005	626.69	629.37	615.90	605.90	13.48	2.11	15.59	11.25	615.44	0.54	9.99	No	
LRMW-5	9/9/2005	626.69	629.37	615.90	605.90	15.06	5.50	20.56	13.56	613.13	-2.31	8.41	No	
LRMW-5	10/11/2005	626.69	629.37	615.90	605.90	13.54	1.97	15.51	11.28	615.41	2.28	9.93	No	
LRMW-5	5/23/2006	626.69	629.37	615.90	605.90	11.11	7.65	18.76	10.07	616.62	1.21	12.36	Yes	
LRMW-5	10/16/2006	626.69	629.37	615.90	605.90	15.33	4.93	20.26	13.71	612.98	-3.64	8.14	No	
LRMW-5	4/23/2007	626.69	629.37	615.90	605.90	13.92	4.67	18.59	12.24	614.45	1.47	9.55	No	
LRMW-5	9/25/2007	626.69	629.20	615.73	605.73	14.44	4.58	19.02	12.91	613.78	-0.67	9.03	No	
LRMW-5	5/1/2008	626.69	629.20	615.73	605.73	10.91	6.38	17.29	9.77	616.92	3.14	12.56	Yes	
LRMW-5	10/20/2008	626.69	629.20	615.73	605.73	10.97	7.60	18.57	10.09	616.60	-0.32	12.50	Yes	
LRMW-5	4/18/2009	626.69	629.20	615.73	605.73	11.31	7.30	18.61	10.37	616.32	-0.28	12.16	Yes	

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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)	Comment
LRMW-5	10/11/2009	626.69	629.20	615.73	605.73	14.74	2.85	17.59	12.84	613.85	-2.47	8.73	No	
LRMW-5	4/28/2010	626.69	629.20	615.73	605.73	13.31	3.79	17.10	11.61	615.08	1.23	10.16	No	
LRMW-5	10/25/2010	626.69	629.20	615.73	605.73	12.13	4.42	16.55	10.57	616.12	1.04	11.34	Yes	
LRMW-5	4/25/2011	626.69	629.20	615.73	605.73	11.97	3.83	15.80	10.28	616.41	0.29	11.50	Yes	
LRMW-5	9/14/2011	626.69	629.20	615.73	605.73	13.09	3.85	16.94	11.41	615.28	-1.12	10.38	No	
LRMW-5	9/23/2011	626.69	629.20	615.73	605.73	13.28	4.86	18.14	11.81	614.88	-0.41	10.19	No	
LRMW-5	9/29/2011	626.69	629.20	615.73	605.73	13.34	5.02	18.36	11.91	614.78	-0.09	10.13	No	
LRMW-5	10/7/2011	626.69	629.20	615.73	605.73	13.53	5.66	19.19	12.24	614.45	-0.33	9.94	No	
LRMW-5	10/11/2011	626.69	629.20	615.73	605.73	13.61	5.86	19.47	12.36	614.33	-0.12	9.86	No	
LRMW-5	10/21/2011	626.69	629.20	615.73	605.73	13.77	6.07	19.84	12.56	614.13	-0.21	9.70	No	
LRMW-5	10/27/2011	626.69	629.20	615.73	605.73	13.91	6.02	19.93	12.69	614.00	-0.13	9.56	No	
LRMW-5	11/3/2011	626.69	629.20	615.73	605.73	14.22	5.83	20.05	12.96	613.73	-0.27	9.25	No	
LRMW-5	11/9/2011	626.69	629.20	615.73	605.73	14.26	5.69	19.95	12.97	613.72	-0.01	9.21	No	
LRMW-5	11/17/2011	626.69	629.20	615.73	605.73	14.63	5.50	20.13	13.30	613.39	-0.33	8.84	No	
LRMW-5	11/22/2011	626.69	629.20	615.73	605.73	14.65	5.37	20.02	13.29	613.40	0.01	8.82	No	
LRMW-5	12/1/2011	626.69	629.20	615.73	605.73	14.94	5.12	20.06	13.53	613.16	-0.24	8.53	No	
LRMW-5	1/4/2012	626.69	629.20	615.73	605.73	15.52	4.43	19.95	13.96	612.73	-0.43	7.95	No	
LRMW-5	2/16/2012	626.69	629.20	615.73	605.73	16.44	3.45	19.89	14.67	612.02	-0.71	7.03	No	
LRMW-5	3/13/2012	626.69	629.20	615.73	605.73	16.51	3.12	19.63	14.67	612.02	0.00	6.96	No	
LRMW-5	4/12/2012	626.69	629.20	615.73	605.73	15.25	3.79	19.04	13.55	613.14	1.12	8.22	No	Cannot get Spill Buddy in Well
LRMW-5	4/16/2012	626.69	629.20	615.73	605.73	15.05	3.84	18.89	13.37	613.32	0.19	8.42	No	
LRMW-5	5/18/2012	626.69	629.20	615.73	605.73	13.68	3.92	17.60	12.01	614.68	1.35	9.79	No	
LRMW-5	6/28/2012	626.69	629.20	615.73	605.73	10.71	3.83	14.54	9.02	617.67	2.99	12.76	Yes	
LRMW-5	7/24/2012	626.69	629.20	615.73	605.73	13.19	4.10	17.29	11.56	615.13	-2.54	10.28	No	
LRMW-5	8/17/2012	626.69	629.20	615.73	605.73	13.58	5.71	19.29	12.30	614.39	-0.74	9.89	No	
LRMW-5	8/28/2012	626.69	629.20	615.73	605.73	14.28	5.71	19.99	13.00	613.69	-0.70	9.19	No	Hand Bail before reading
LRMW-5	8/28/2012	626.69	629.20	615.73	605.73	19.36	1.02	20.38	17.07	609.62	-4.07	4.11	No	Hand Bail after reading
LRMW-5	9/17/2012	626.69	629.20	615.73	605.73	15.41	2.53	17.94	13.44	613.25	3.63	8.06	No	
LRMW-5	9/30/2012	626.69	629.20	615.73	605.73	15.80	2.49	18.29	13.82	612.87	-0.38	7.67	No	
LRMW-5	11/21/2012	626.69	629.20	615.73	605.73	16.32	2.20	18.52	14.28	612.41	-0.46	7.15	No	
LRMW-5	12/17/2012	626.69	629.20	615.73	605.73	16.64	2.04	18.68	14.57	612.12	-0.29	6.83	No	
LRMW-5	3/25/2013	626.69	629.20	615.73	605.73	17.52	1.94	19.46	15.43	611.26	-0.86	5.95	No	
LRMW-5	5/6/2013	626.69	629.20	615.73	605.73	14.53	2.43	16.96	12.54	614.15	2.88	8.94	No	
LRMW-5	10/3/2013	626.69	629.20	615.73	605.73	15.53	3.39	18.92	13.75	612.94	-1.21	7.94	No	
LRMW-5	5/22/2014	626.69	629.20	615.73	605.73	10.85	3.11	13.96	9.01	617.68	4.74	12.62	Yes	
LRMW-5	10/31/2014	626.69	629.20	615.73	605.73	13.30	3.78	17.08	11.60	615.09	-2.59	10.17	No	
LRMW-5	4/15/2015	626.69	629.20	615.73	605.73	14.35	5.24	19.59	12.97	613.72	-1.36	9.12	No	
LRMW-5	4/22/2015	626.69	629.20	615.73	605.73	14.45	1.15	15.60	12.19	614.50	0.78	9.02	No	
LRMW-5	4/29/2015	626.69	629.20	615.73	605.73	14.37	0.18	14.55	11.90	614.79	0.29	9.10	No	
LRMW-5	5/6/2015	626.69	629.20	615.73	605.73	14.38	0.20	14.58	11.91	614.78	-0.01	9.09	No	
LRMW-5	5/12/2015	626.69	629.20	615.73	605.73	13.83	0.12	13.95	11.35	615.34	0.57	9.64	No	

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Former Amoco Terminal
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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)	Comment
LRMW-5	6/9/2015	626.69	629.20	615.73	605.73	12.83	0.40	13.23	10.41	616.28	0.94	10.64	Yes	
LRMW-5	10/5/2015	626.69	629.20	615.73	605.73	13.25	0.27	13.52	10.80	615.89	-0.39	10.22	Yes	
LRMW-5	5/23/2016	626.69	629.20	615.73	605.73	10.80	2.89	13.69	8.91	617.78	1.89	12.67	Yes	
LRMW-5	10/3/2016	626.69	629.20	615.73	605.73	14.13	1.19	15.32	11.88	614.81	-2.96	9.34	No	
LRMW-5	5/2/2017	626.69	629.20	615.73	605.73	10.63	3.44	14.07	8.86	617.83	3.02	12.84	Yes	
LRMW-5	5/22/2017	626.69	629.20	615.73	605.73	9.65	3.40	13.05	7.87	618.82	0.99	13.82	Yes	
LRMW-5	5/31/2017	626.69	629.20	615.73	605.73	9.92	2.38	12.30	7.92	618.77	-0.05	13.55	Yes	
LRMW-5	6/22/2017	626.69	629.20	615.73	605.73	11.89	0.66	12.55	9.52	617.17	-1.60	11.58	Yes	
LRMW-5	6/29/2017	626.69	629.20	615.73	605.73	NP	0.00	15.09	12.58	614.11	-3.06	8.38	No	
LRMW-5	10/26/2017	626.69	629.20	615.73	605.73	10.10	3.04	13.14	8.24	618.45	4.34	13.37	Yes	
LRMW-6	2/8/2001	628.97	632.50	619.36	609.36	NP	0.00	19.47	15.94	613.03	NA	3.67	No	
LRMW-6	2/22/2001	628.97	632.50	619.36	609.36	NP	0.00	19.55	16.02	612.95	-0.08	3.59	No	
LRMW-6	5/23/2001	628.97	632.50	619.36	609.36	NP	0.00	15.70	12.17	616.80	3.85	7.44	No	
LRMW-6	10/24/2001	628.97	632.50	619.36	609.36	NP	0.00	18.82	15.29	613.68	-3.12	4.32	No	
LRMW-6	12/20/2001	629.00	632.50	619.36	609.36	NP	0.00	18.44	14.94	614.06	0.38	4.70	No	
LRMW-6	1/22/2002	629.00	632.50	619.36	609.36	NP	0.00	19.26	15.76	613.24	-0.82	3.88	No	
LRMW-6	5/15/2002	629.00	632.50	619.36	609.36	NP	0.00	16.87	13.37	615.63	2.39	6.27	No	
LRMW-6	6/27/2002	629.00	632.50	619.36	609.36	NP	0.00	17.11	13.61	615.39	-0.24	6.03	No	
LRMW-6	7/25/2002	629.00	632.50	619.36	609.36	NP	0.00	17.53	14.03	614.97	-0.42	5.61	No	
LRMW-6	8/20/2002	629.00	632.50	619.36	609.36	NP	0.00	16.94	13.44	615.56	0.59	6.20	No	
LRMW-6	9/30/2002	629.00	632.50	619.36	609.36	NP	0.00	16.90	13.40	615.60	0.04	6.24	No	
LRMW-6	11/5/2002	629.00	632.50	619.36	609.36	NP	0.00	17.90	14.40	614.60	-1.00	5.24	No	
LRMW-6	12/23/2002	629.00	632.50	619.36	609.36	NP	0.00	18.45	14.95	614.05	-0.55	4.69	No	
LRMW-6	1/28/2003	629.00	632.50	619.36	609.36	NP	0.00	19.38	15.88	613.12	-0.93	3.76	No	
LRMW-6	2/19/2003	629.00	632.50	619.36	609.36	NP	0.00	18.94	15.44	613.56	0.44	4.20	No	
LRMW-6	4/17/2003	629.00	632.50	619.36	609.36	NP	0.00	23.14	19.64	609.36	-4.20	0.00	No	
LRMW-6	5/15/2003	629.00	632.50	619.36	609.36	NP	0.00	18.99	15.49	613.51	4.15	4.15	No	
LRMW-6	6/10/2003	629.00	632.50	619.36	609.36	NP	0.00	18.57	15.07	613.93	0.42	4.57	No	
LRMW-6	7/30/2003	629.00	632.50	619.36	609.36	NP	0.00	18.40	14.90	614.10	0.17	4.74	No	
LRMW-6	10/22/2003	629.00	632.50	619.36	609.36	NP	0.00	19.68	16.18	612.82	-1.28	3.46	No	
LRMW-6	12/3/2003	629.30	632.45	619.31	609.31	NP	0.00	19.89	16.74	612.56	-0.26	3.25	No	
LRMW-6	1/8/2004	629.30	632.45	619.31	609.31	NP	0.00	20.43	17.28	612.02	-0.54	2.71	No	
LRMW-6	4/19/2004	629.30	632.45	619.31	609.31	NP	0.00	19.41	16.26	613.04	1.02	3.73	No	
LRMW-6	7/27/2004	629.30	632.45	619.31	609.31	NP	0.00	18.32	15.17	614.13	1.09	4.82	No	
LRMW-6	11/18/2004	629.30	632.45	619.31	609.31	NP	0.00	17.12	13.97	615.33	1.20	6.02	No	
LRMW-6	4/18/2005	629.30	632.45	619.31	609.31	NP	0.00	16.92	13.77	615.53	0.20	6.22	No	
LRMW-6	10/11/2005	629.30	632.45	619.31	609.31	NP	0.00	16.56	13.41	615.89	0.36	6.58	No	
LRMW-6	5/23/2006	629.30	632.45	619.31	609.31	NP	0.00	15.77	12.62	616.68	0.79	7.37	No	
LRMW-6	10/16/2006	629.30	632.45	619.31	609.31	NP	0.00	18.54	15.39	613.91	-2.77	4.60	No	
LRMW-6	4/23/2007	629.30	632.45	619.31	609.31	NP	0.00	18.34	15.19	614.11	0.20	4.80	No	

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LRMW-6	9/25/2007	629.30	632.32	619.18	609.18	NP	0.00	18.71	15.69	613.61	-0.50	4.43	No	
LRMW-6	5/1/2008	629.30	632.32	619.18	609.18	NP	0.00	15.43	12.41	616.89	3.28	7.71	No	
LRMW-6	10/20/2008	629.30	632.32	619.18	609.18	NP	0.00	15.28	12.26	617.04	0.15	7.86	No	
LRMW-6	4/18/2009	629.30	632.32	619.18	609.18	NP	0.00	16.22	13.20	616.10	-0.94	6.92	No	
LRMW-6	10/11/2009	629.30	632.32	619.18	609.18	NP	0.00	17.99	14.97	614.33	-1.77	5.15	No	
LRMW-6	4/28/2010	629.30	632.32	619.18	609.18	NP	0.00	17.62	14.60	614.70	0.37	5.52	No	
LRMW-6	10/25/2010	629.30	632.32	619.18	609.18	NP	0.00	15.99	12.97	616.33	1.63	7.15	No	
LRMW-6	4/25/2011	629.30	632.32	619.18	609.18	NP	0.00	16.05	13.03	616.27	-0.06	7.09	No	
LRMW-6	9/14/2011	629.30	632.32	619.18	609.18	NP	0.00	16.75	13.73	615.57	-0.70	6.39	No	
LRMW-6	9/23/2011	629.30	632.32	619.18	609.18	NP	0.00	17.02	14.00	615.30	-0.27	6.12	No	
LRMW-6	9/29/2011	629.30	632.32	619.18	609.18	NP	0.00	17.02	14.00	615.30	0.00	6.12	No	
LRMW-6	10/7/2011	629.30	632.32	619.18	609.18	NP	0.00	17.21	14.19	615.11	-0.19	5.93	No	
LRMW-6	10/11/2011	629.30	632.32	619.18	609.18	NP	0.00	17.23	14.21	615.09	-0.02	5.91	No	
LRMW-6	10/21/2011	629.30	632.32	619.18	609.18	NP	0.00	17.58	14.56	614.74	-0.35	5.56	No	
LRMW-6	10/27/2011	629.30	632.32	619.18	609.18	NP	0.00	17.66	14.64	614.66	-0.08	5.48	No	
LRMW-6	11/3/2011	629.30	632.32	619.18	609.18	NP	0.00	17.96	14.94	614.36	-0.30	5.18	No	
LRMW-6	11/9/2011	629.30	632.32	619.18	609.18	NP	0.00	17.90	14.88	614.42	0.06	5.24	No	
LRMW-6	11/17/2011	629.30	632.32	619.18	609.18	NP	0.00	18.25	15.23	614.07	-0.35	4.89	No	
LRMW-6	11/22/2011	629.30	632.32	619.18	609.18	NP	0.00	18.22	15.20	614.10	0.03	4.92	No	
LRMW-6	12/1/2011	629.30	632.32	619.18	609.18	NP	0.00	18.36	15.34	613.96	-0.14	4.78	No	
LRMW-6	1/4/2012	629.30	632.32	619.18	609.18	NP	0.00	18.92	15.90	613.40	-0.56	4.22	No	
LRMW-6	2/16/2012	629.30	632.32	619.18	609.18	NP	0.00	19.71	16.69	612.61	-0.79	3.43	No	
LRMW-6	3/13/2012	629.30	632.32	619.18	609.18	NP	0.00	19.78	16.76	612.54	-0.07	3.36	No	
LRMW-6	4/16/2012	629.30	632.32	619.18	609.18	NP	0.00	18.34	15.32	613.98	1.44	4.80	No	
LRMW-6	5/18/2012	629.30	632.32	619.18	609.18	NP	0.00	17.48	14.46	614.84	0.86	5.66	No	
LRMW-6	6/28/2012	629.30	632.32	619.18	609.18	NP	0.00	14.33	11.31	617.99	3.15	8.81	No	
LRMW-6	7/24/2012	629.30	632.32	619.18	609.18	NP	0.00	16.81	13.79	615.51	-2.48	6.33	No	
LRMW-6	8/17/2012	629.30	632.32	619.18	609.18	NP	0.00	17.44	14.42	614.88	-0.63	5.70	No	
LRMW-6	9/17/2012	629.30	632.32	619.18	609.18	NP	0.00	18.45	15.43	613.87	-1.01	4.69	No	
LRMW-6	9/30/2012	629.30	632.32	619.18	609.18	NP	0.00	18.75	15.73	613.57	-0.30	4.39	No	
LRMW-6	11/21/2012	629.30	632.32	619.18	609.18	NP	0.00	18.83	15.81	613.49	-0.08	4.31	No	
LRMW-6	12/17/2012	629.30	632.32	619.18	609.18	NP	0.00	18.97	15.95	613.35	-0.14	4.17	No	
LRMW-6	3/25/2013	629.30	632.32	619.18	609.18	NP	0.00	20.39	17.37	611.93	-1.42	2.75	No	
LRMW-6	5/6/2013	629.30	632.32	619.18	609.18	NP	0.00	17.69	14.67	614.63	2.70	5.45	No	
LRMW-6	10/3/2013	629.30	632.32	619.18	609.18	NP	0.00	18.73	15.71	613.59	-1.04	4.41	No	
LRMW-6	5/21/2014	629.30	632.32	619.18	609.18	NP	0.00	14.52	11.50	617.80	4.21	8.62	No	
LRMW-6	10/31/2014	629.30	632.32	619.18	609.18	NP	0.00	16.93	13.91	615.39	-2.41	6.21	No	
LRMW-6	5/6/2015	629.30	632.32	619.18	609.18	NP	0.00	17.84	14.82	614.48	-0.91	5.30	No	
LRMW-6	10/5/2015	629.30	632.32	619.18	609.18	NP	0.00	16.17	13.15	616.15	1.67	6.97	No	
LRMW-6	5/23/2016	629.30	632.32	619.18	609.18	NP	0.00	14.27	11.25	618.05	1.90	8.87	No	
LRMW-6	10/3/2016	629.30	632.32	619.18	609.18	NP	0.00	15.98	12.96	616.34	-1.71	7.16	No	

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LRMW-6	8/8/2017	629.30	632.32	619.18	609.18	NP	0.00	15.06	12.04	617.26	0.92	8.08	No	
LRMW-6	8/15/2017	629.30	632.32	619.18	609.18	NP	0.00	14.28	11.26	618.04	0.78	8.86	No	
LRMW-6	5/30/2018	629.30	632.32	619.18	609.18	NP	0.00	16.22	13.20	616.10	-1.94	6.92	No	
LRMW-6	6/18/2018	629.30	632.32	619.18	609.18	NP	0.00	14.86	11.84	617.46	1.36	8.28	No	
LRMW-7	7/27/2011	627.00	629.06	611.00	596.00	11.02	6.90	17.92	10.44	616.56	NA	22.04	Yes	
LRMW-7	7/28/2011	627.00	629.06	611.00	596.00	10.64	8.54	19.18	10.41	616.59	0.03	22.42	Yes	
LRMW-7	8/1/2011	627.00	629.06	611.00	596.00	10.80	8.98	19.78	10.67	616.33	-0.25	22.26	Yes	
LRMW-7	8/18/2011	627.00	629.06	611.00	596.00	9.98	9.72	19.70	10.01	616.99	0.66	23.08	Yes	
LRMW-7	8/25/2011	627.00	629.06	611.00	596.00	10.73	8.95	19.68	10.59	616.41	-0.58	22.33	Yes	
LRMW-7	9/1/2011	627.00	629.06	611.00	596.00	11.23	8.56	19.79	11.01	615.99	-0.42	21.83	Yes	
LRMW-7	9/8/2011	627.00	629.06	611.00	596.00	11.99	7.73	19.72	11.59	615.41	-0.58	21.07	Yes	
LRMW-7	9/14/2011	627.00	629.06	611.00	596.00	12.64	7.03	19.67	12.09	614.91	-0.50	20.42	Yes	
LRMW-7	9/23/2011	627.00	629.06	611.00	596.00	12.92	6.96	19.88	12.36	614.64	-0.26	20.14	Yes	
LRMW-7	9/29/2011	627.00	629.06	611.00	596.00	13.09	6.79	19.88	12.49	614.51	-0.13	19.97	Yes	
LRMW-7	10/7/2011	627.00	629.06	611.00	596.00	13.32	6.41	19.73	12.64	614.36	-0.15	19.74	Yes	
LRMW-7	10/11/2011	627.00	629.06	611.00	596.00	13.65	6.31	19.96	12.95	614.05	-0.31	19.41	Yes	
LRMW-7	10/21/2011	627.00	629.06	611.00	596.00	13.85	5.11	18.96	12.89	614.11	0.06	19.21	Yes	
LRMW-7	10/27/2011	627.00	629.06	611.00	596.00	14.01	5.29	19.30	13.09	613.91	-0.20	19.05	Yes	
LRMW-7	11/3/2011	627.00	629.06	611.00	596.00	14.29	5.16	19.45	13.34	613.66	-0.25	18.77	Yes	
LRMW-7	11/9/2011	627.00	629.06	611.00	596.00	14.22	5.24	19.46	13.29	613.71	0.05	18.84	Yes	
LRMW-7	11/10/2011	627.00	629.06	611.00	596.00	14.41	5.19	19.60	13.47	613.53	-0.18	18.65	Yes	Before EFR
LRMW-7	11/10/2011	627.00	629.06	611.00	596.00	16.12	0.03	16.15	14.07	612.93	-0.60	16.94	Yes	After EFR
LRMW-7	11/13/2011	627.00	629.06	611.00	596.00	14.58	3.85	18.43	13.35	613.65	0.72	18.48	Yes	
LRMW-7	11/17/2011	627.00	629.06	611.00	596.00	14.75	4.29	19.04	13.61	613.39	-0.26	18.31	Yes	
LRMW-7	11/22/2011	627.00	629.06	611.00	596.00	14.73	4.51	19.24	13.64	613.36	-0.03	18.33	Yes	
LRMW-7	12/1/2011	627.00	629.06	611.00	596.00	14.91	4.63	19.54	13.84	613.16	-0.21	18.15	Yes	
LRMW-7	1/4/2012	627.00	629.06	611.00	596.00	15.35	4.70	20.05	14.30	612.70	-0.46	17.71	Yes	
LRMW-7	2/16/2012	627.00	629.06	611.00	596.00	16.22	4.06	20.28	15.03	611.97	-0.73	16.84	Yes	
LRMW-7	3/13/2012	627.00	629.06	611.00	596.00	16.12	3.84	19.96	14.89	612.11	0.15	16.94	Yes	
LRMW-7	4/12/2012	627.00	629.06	611.00	596.00	15.19	4.77	19.96	14.15	612.85	0.73	17.87	Yes	Spill Buddy Before Reading
LRMW-7	4/16/2012	627.00	629.06	611.00	596.00	14.94	4.49	19.43	13.84	613.16	0.31	18.12	Yes	
LRMW-7	5/18/2012	627.00	629.06	611.00	596.00	13.44	6.71	20.15	12.82	614.18	1.02	19.62	Yes	
LRMW-7	6/28/2012	627.00	629.06	611.00	596.00	9.27	10.58	19.85	9.48	617.52	3.34	23.79	Yes	
LRMW-7	7/2/2012	627.00	629.06	611.00	596.00	10.07	9.89	19.96	10.13	616.87	-0.65	22.99	Yes	Installed Portable System 2 on LRMW 7, gauge before starting portable system.
LRMW-7	11/21/2012	627.00	629.06	611.00	596.00	17.04	2.33	19.37	15.48	611.52	-5.35	16.02	Yes	
LRMW-7	12/17/2012	627.00	629.06	611.00	596.00	15.79	3.78	19.57	14.54	612.46	0.94	17.27	Yes	
LRMW-7	3/25/2013	627.00	629.06	611.00	596.00	17.12	2.97	20.09	15.70	611.30	-1.16	15.94	Yes	
LRMW-7	4/29/2013	627.00	629.06	611.00	596.00	14.19	4.99	19.18	13.20	613.80	2.50	18.87	Yes	Spill Buddy Before Reading
LRMW-7	5/6/2013	627.00	629.06	611.00	596.00	13.90	6.02	19.92	13.13	613.87	0.07	19.16	Yes	
LRMW-7	10/3/2013	627.00	629.06	611.00	596.00	15.04	4.77	19.81	14.00	613.00	-0.87	18.02	Yes	
LRMW-7	5/22/2014	627.00	629.06	611.00	596.00	9.58	9.81	19.39	9.63	617.37	4.38	23.48	Yes	

Table 4
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)	Comment
LRMW-7	10/31/2014	627.00	629.06	611.00	596.00	12.76	7.02	19.78	12.21	614.79	-2.58	20.30	Yes	
LRMW-7	4/15/2015	627.00	629.06	611.00	596.00	16.19	3.14	19.33	14.80	612.20	-2.60	16.87	Yes	
LRMW-7	4/22/2015	627.00	629.06	611.00	596.00	14.57	3.97	18.54	13.36	613.64	1.44	18.49	Yes	
LRMW-7	4/29/2015	627.00	629.06	611.00	596.00	14.25	4.35	18.60	13.12	613.88	0.24	18.81	Yes	
LRMW-7	5/6/2015	627.00	629.06	611.00	596.00	14.21	4.61	18.82	13.14	613.86	-0.02	18.85	Yes	
LRMW-7	5/12/2015	627.00	629.06	611.00	596.00	13.35	5.59	18.94	12.49	614.51	0.65	19.71	Yes	
LRMW-7	6/9/2015	627.00	629.06	611.00	596.00	11.74	7.79	19.53	11.35	615.65	1.14	21.32	Yes	
LRMW-7	10/5/2015	627.00	629.06	611.00	596.00	11.89	7.27	19.16	11.39	615.61	-0.04	21.17	Yes	
LRMW-7	5/23/2016	627.00	629.06	611.00	596.00	9.60	10.30	19.90	9.75	617.25	1.64	23.46	Yes	
LRMW-7	10/3/2016	627.00	629.06	611.00	596.00	11.81	7.91	19.72	11.45	615.55	-1.70	21.25	Yes	
LRMW-7	5/2/2017	627.00	629.06	611.00	596.00	9.80	9.36	19.16	9.75	617.25	1.70	23.26	Yes	
LRMW-7	5/8/2017	627.00	629.06	611.00	596.00	10.17	8.53	18.70	9.94	617.06	-0.19	22.89	Yes	
LRMW-7	5/18/2017	627.00	629.06	611.00	596.00	9.65	9.45	19.10	9.62	617.38	0.32	23.41	Yes	
LRMW-7	5/22/2017	627.00	629.06	611.00	596.00	8.34	10.25	18.59	8.48	618.52	1.14	24.72	Yes	
LRMW-7	5/25/2017	627.00	629.06	611.00	596.00	8.42	9.93	18.35	8.49	618.51	-0.01	24.64	Yes	
LRMW-7	5/31/2017	627.00	629.06	611.00	596.00	8.24	11.13	19.37	8.57	618.43	-0.08	24.82	Yes	
LRMW-7	6/21/2017	627.00	629.06	611.00	596.00	10.23	9.36	19.59	10.18	616.82	-1.61	22.83	Yes	
LRMW-7	6/22/2017	627.00	629.06	611.00	596.00	11.42	4.30	15.72	10.28	616.72	-0.10	21.64	Yes	
LRMW-7	6/29/2017	627.00	629.06	611.00	596.00	10.67	8.17	18.84	10.37	616.63	-0.08	22.39	Yes	
LRMW-7	7/7/2017	627.00	629.06	611.00	596.00	9.93	9.02	18.95	9.81	617.19	0.56	23.13	Yes	
LRMW-7	7/12/2017	627.00	629.06	611.00	596.00	9.75	9.52	19.27	9.74	617.26	0.07	23.31	Yes	
LRMW-7	7/19/2017	627.00	629.06	611.00	596.00	9.62	9.65	19.27	9.63	617.37	0.10	23.44	Yes	
LRMW-7	7/26/2017	627.00	629.06	611.00	596.00	9.95	9.19	19.14	9.86	617.14	-0.23	23.11	Yes	
LRMW-7	7/27/2017	627.00	629.06	611.00	596.00	11.51	3.45	14.96	10.19	616.81	-0.33	21.55	Yes	
LRMW-7	8/4/2017	627.00	629.06	611.00	596.00	10.52	8.18	18.70	10.22	616.78	-0.03	22.54	Yes	
LRMW-7	8/8/2017	627.00	629.06	611.00	596.00	11.35	5.16	16.51	10.40	616.60	-0.18	21.71	Yes	
LRMW-7	8/15/2017	627.00	629.06	611.00	596.00	9.79	8.64	18.43	9.59	617.41	0.81	23.27	Yes	
LRMW-7	8/22/2017						Portable Skimmer System Installed							
LRMW-7	8/22/2017	627.00	629.06	611.00	596.00	9.36	9.24	18.60	9.29	617.71	0.30	23.70	Yes	
LRMW-7	9/7/2017	627.00	629.06	611.00	596.00	8.35	10.99	19.34	8.65	618.35	0.63	24.71	Yes	
LRMW-7	9/19/2017	627.00	629.06	611.00	596.00	10.28	7.04	17.32	9.73	617.27	-1.08	22.78	Yes	
LRMW-7	9/27/2017	627.00	629.06	611.00	596.00	11.47	0.16	11.63	9.44	617.56	0.29	21.59	Yes	
LRMW-7	10/12/2017	627.00	629.06	611.00	596.00	10.48	0.30	10.78	8.48	618.52	0.96	22.58	Yes	
LRMW-7	10/26/2017	627.00	629.06	611.00	596.00	11.01	0.06	11.07	8.96	618.04	-0.48	22.05	Yes	
LRMW-7	5/14/2018	627.00	629.06	611.00	596.00	12.26	7.36	19.62	11.78	615.22	-2.82	20.80	Yes	
LRMW-7	5/15/2018	627.00	629.06	611.00	596.00	13.49	2.96	16.45	12.07	614.93	-0.28	19.57	Yes	Portable system restarted
LRMW-7	5/23/2018	627.00	629.06	611.00	596.00	14.45	0.12	14.57	12.42	614.58	-0.35	18.61	Yes	
LRMW-7	5/24/2018	627.00	629.06	611.00	596.00	14.40	0.15	14.55	12.37	614.63	0.04	18.66	Yes	
LRMW-7	5/30/2018	627.00	629.06	611.00	596.00	13.64	0.79	14.43	11.75	615.25	0.62	19.42	Yes	
LRMW-7	6/8/2018	627.00	629.06	611.00	596.00	13.20	0.01	13.21	11.14	615.86	0.61	19.86	Yes	
LRMW-7	6/12/2018	627.00	629.06	611.00	596.00	13.35	0.05	13.40	11.30	615.70	-0.16	19.71	Yes	
LRMW-7	6/15/2018	627.00	629.06	611.00	596.00	12.71	2.52	15.23	11.19	615.81	0.11	20.35	Yes	
LRMW-7	6/19/2018	627.00	629.06	611.00	596.00	11.72	1.54	13.26	9.99	617.01	1.20	21.34	Yes	
LRMW-7	6/27/2018	627.00	629.06	611.00	596.00	12.76	0.24	13.00	10.75	616.25	-0.76	20.30	Yes	
LRMW-7	6/28/2018	627.00	629.06	611.00	596.00	12.76	0.24	13.00	10.75	616.25	0.00	20.30	Yes	
LRMW-7	7/10/2018	627.00	629.06	611.00	596.00	12.88	0.03	12.91	10.83	616.17	-0.07	20.18	Yes	
LRMW-7	7/25/2018	627.00	629.06	611.00	596.00	13.75	0.60	14.35	11.82	615.18	-0.99	19.31	Yes	
LRMW-7	8/8/2018	627.00	629.06	611.00	596.00	14.34	0.30	14.64	12.34	614.66	-0.53	18.72	Yes	
LRMW-7	8/16/2018	627.00	629.06	611.00	596.00	14.76	0.24	15.00	12.75	614.25	-0.41	18.30	Yes	
LRMW-7	8/28/2018	627.00	629.06	611.00	596.00	13.96	0.43	14.39	11.99	615.01	0.76	19.10	Yes	

Table 4
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)	Comment
LRMW-7	9/4/2018	627.00	629.06	611.00	596.00	13.73	3.35	17.08	12.39	614.61	-0.40	19.33	Yes	Pump taken out of well
LRMW-7	10/2/2018	627.00	629.06	611.00	596.00	12.57	6.37	18.94	11.88	615.12	0.51	20.49	Yes	
LRMW-7	10/16/2018	627.00	629.06	611.00	596.00	10.96	7.89	18.85	10.60	616.40	1.28	22.10	Yes	
LRMW-7	10/22/2018	627.00	629.06	611.00	596.00	11.88	4.87	16.75	10.87	616.13	-0.27	21.18	Yes	
LRMW-7	10/29/2018	627.00	629.06	611.00	596.00	12.12	3.61	15.73	10.84	616.16	0.03	20.94	Yes	
LRMW-8	7/21/2011	626.80	629.96	608.80	588.80	NP	0.00	13.62	10.46	616.34	NA	27.54	Yes	
LRMW-8	7/28/2011	626.80	629.96	608.80	588.80	NP	0.00	13.65	10.49	616.31	-0.03	27.51	Yes	
LRMW-8	8/18/2011	626.80	629.96	608.80	588.80	NP	0.00	13.37	10.21	616.59	0.28	27.79	Yes	
LRMW-8	8/25/2011	626.80	629.96	608.80	588.80	NP	0.00	13.94	10.78	616.02	-0.57	27.22	Yes	
LRMW-8	9/1/2011	626.80	629.96	608.80	588.80	NP	0.00	14.36	11.20	615.60	-0.42	26.80	Yes	
LRMW-8	9/8/2011	626.80	629.96	608.80	588.80	NP	0.00	14.94	11.78	615.02	-0.58	26.22	Yes	
LRMW-8	9/14/2011	626.80	629.96	608.80	588.80	NP	0.00	15.41	12.25	614.55	-0.47	25.75	Yes	
LRMW-8	9/23/2011	626.80	629.96	608.80	588.80	NP	0.00	15.68	12.52	614.28	-0.27	25.48	Yes	
LRMW-8	9/29/2011	626.80	629.96	608.80	588.80	NP	0.00	15.78	12.62	614.18	-0.10	25.38	Yes	
LRMW-8	10/7/2011	626.80	629.96	608.80	588.80	NP	0.00	15.95	12.79	614.01	-0.17	25.21	Yes	
LRMW-8	10/11/2011	626.80	629.96	608.80	588.80	NP	0.00	16.24	13.08	613.72	-0.29	24.92	Yes	
LRMW-8	10/21/2011	626.80	629.96	608.80	588.80	NP	0.00	16.25	13.09	613.71	-0.01	24.91	Yes	
LRMW-8	10/27/2011	626.80	629.96	608.80	588.80	NP	0.00	16.37	13.21	613.59	-0.12	24.79	Yes	
LRMW-8	11/3/2011	626.80	629.96	608.80	588.80	NP	0.00	16.63	13.47	613.33	-0.26	24.53	Yes	
LRMW-8	11/9/2011	626.80	629.96	608.80	588.80	NP	0.00	16.58	13.42	613.38	0.05	24.58	Yes	
LRMW-8	11/17/2011	626.80	629.96	608.80	588.80	NP	0.00	16.88	13.72	613.08	-0.30	24.28	Yes	
LRMW-8	11/22/2011	626.80	629.96	608.80	588.80	NP	0.00	16.89	13.73	613.07	-0.01	24.27	Yes	
LRMW-8	12/1/2011	626.80	629.96	608.80	588.80	NP	0.00	17.11	13.95	612.85	-0.22	24.05	Yes	
LRMW-8	1/4/2012	626.80	629.96	608.80	588.80	NP	0.00	17.57	14.41	612.39	-0.46	23.59	Yes	
LRMW-8	2/16/2012	626.80	629.96	608.80	588.80	NP	0.00	18.29	15.13	611.67	-0.72	22.87	Yes	
LRMW-8	3/13/2012	626.80	629.96	608.80	588.80	18.00	0.38	18.38	14.92	611.88	0.21	23.16	Yes	
LRMW-8	4/16/2012	626.80	629.96	608.80	588.80	16.83	0.69	17.52	13.82	612.98	1.10	24.33	Yes	
LRMW-8	5/18/2012	626.80	629.96	608.80	588.80	15.87	0.70	16.57	12.86	613.94	0.96	25.29	Yes	
LRMW-8	6/28/2012	626.80	629.96	608.80	588.80	12.60	0.69	13.29	9.59	617.21	3.27	28.56	Yes	
LRMW-8	7/24/2012	626.80	629.96	608.80	588.80	15.24	0.71	15.95	12.23	614.57	-2.64	25.92	Yes	
LRMW-8	8/17/2012	626.80	629.96	608.80	588.80	15.79	0.94	16.73	12.83	613.97	-0.60	25.37	Yes	
LRMW-8	8/28/2012	626.80	629.96	608.80	588.80	16.18	1.03	17.21	13.24	613.56	-0.41	24.98	Yes	Spill Buddy Before Reading
LRMW-8	9/17/2012	626.80	629.96	608.80	588.80	16.91	0.47	17.38	13.85	612.95	-0.61	24.25	Yes	
LRMW-8	9/28/2012	626.80	629.96	608.80	588.80	17.23	0.56	17.79	14.19	612.61	-0.34	23.93	Yes	Spill Buddy Before Reading
LRMW-8	9/30/2012	626.80	629.96	608.80	588.80	17.34	0.11	17.45	14.20	612.60	-0.01	23.82	Yes	
LRMW-8	11/21/2012	626.80	629.96	608.80	588.80	17.04	2.32	19.36	14.38	612.42	-0.17	24.12	Yes	
LRMW-8	12/17/2012	626.80	629.96	608.80	588.80	16.94	3.28	20.22	14.48	612.32	-0.11	24.22	Yes	
LRMW-8	3/25/2013	626.80	629.96	608.80	588.80	17.69	4.80	22.49	15.56	611.24	-1.08	23.47	Yes	
LRMW-8	5/6/2013	626.80	629.96	608.80	588.80	14.60	6.19	20.79	12.77	614.03	2.79	26.56	Yes	
LRMW-8	10/3/2013	626.80	629.96	608.80	588.80	15.70	5.95	21.65	13.82	612.98	-1.05	25.46	Yes	
LRMW-8	5/22/2014	626.80	629.96	608.80	588.80	10.90	7.94	18.84	9.45	617.35	4.37	30.26	Yes	

Table 4
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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)	Comment
LRMW-8	10/31/2014	626.80	629.96	608.80	588.80	13.49	8.07	21.56	12.06	614.74	-2.62	27.67	Yes	
LRMW-8	4/15/2015	626.80	629.96	608.80	588.80	15.57	6.85	22.42	13.88	612.92	-1.82	25.59	Yes	
LRMW-8	4/22/2015	626.80	629.96	608.80	588.80	16.35	0.75	17.10	13.35	613.45	0.53	24.81	Yes	
LRMW-8	4/29/2015	626.80	629.96	608.80	588.80	16.25	0.25	16.50	13.14	613.66	0.21	24.91	Yes	
LRMW-8	5/6/2015	626.80	629.96	608.80	588.80	16.30	0.23	16.53	13.19	613.61	-0.05	24.86	Yes	
LRMW-8	5/12/2015	626.80	629.96	608.80	588.80	15.61	0.22	15.83	12.50	614.30	0.69	25.55	Yes	
LRMW-8	6/9/2015	626.80	629.96	608.80	588.80	14.59	0.15	14.74	11.46	615.34	1.04	26.57	Yes	
LRMW-8	10/5/2015	626.80	629.96	608.80	588.80	14.63	0.29	14.92	11.53	615.27	-0.07	26.53	Yes	
LRMW-8	5/23/2016	626.80	629.96	608.80	588.80	13.05	0.34	13.39	9.96	616.84	1.57	28.11	Yes	
LRMW-8	10/3/2016	626.80	629.96	608.80	588.80	14.72	0.32	15.04	11.63	615.17	-1.67	26.44	Yes	
LRMW-8	5/2/2017	626.80	629.96	608.80	588.80	12.92	0.51	13.43	9.87	616.93	1.76	28.24	Yes	
LRMW-8	5/18/2017	626.80	629.96	608.80	588.80	12.77	0.51	13.28	9.72	617.08	0.15	28.39	Yes	
LRMW-8	5/31/2017	626.80	629.96	608.80	588.80	11.82	0.50	12.32	8.77	618.03	0.95	29.34	Yes	
LRMW-8	6/22/2017	626.80	629.96	608.80	588.80	13.45	0.50	13.95	10.40	616.40	-1.63	27.71	Yes	
LRMW-9	7/28/2011	625.40	627.26	606.40	586.40	11.45	0.02	11.47	9.59	615.81	NA	29.41	Yes	
LRMW-9	8/18/2011	625.40	627.26	606.40	586.40	11.17	0.04	11.21	9.32	616.08	0.28	29.69	Yes	
LRMW-9	8/25/2011	625.40	627.26	606.40	586.40	11.73	0.05	11.78	9.88	615.52	-0.56	29.13	Yes	
LRMW-9	9/1/2011	625.40	627.26	606.40	586.40	12.14	0.02	12.16	10.28	615.12	-0.40	28.72	Yes	
LRMW-9	9/8/2011	625.40	627.26	606.40	586.40	12.74	0.04	12.78	10.89	614.51	-0.60	28.12	Yes	
LRMW-9	9/14/2011	625.40	627.26	606.40	586.40	13.20	0.05	13.25	11.35	614.05	-0.46	27.66	Yes	
LRMW-9	9/23/2011	625.40	627.26	606.40	586.40	13.45	0.05	13.50	11.60	613.80	-0.25	27.41	Yes	
LRMW-9	9/29/2011	625.40	627.26	606.40	586.40	13.56	0.05	13.61	11.71	613.69	-0.11	27.30	Yes	
LRMW-9	10/7/2011	625.40	627.26	606.40	586.40	13.74	0.05	13.79	11.89	613.51	-0.18	27.12	Yes	
LRMW-9	10/11/2011	625.40	627.26	606.40	586.40	13.96	0.03	13.99	12.11	613.29	-0.22	26.90	Yes	
LRMW-9	10/21/2011	625.40	627.26	606.40	586.40	13.98	0.06	14.04	12.13	613.27	-0.03	26.88	Yes	
LRMW-9	10/27/2011	625.40	627.26	606.40	586.40	14.01	0.03	14.04	12.16	613.24	-0.02	26.85	Yes	
LRMW-9	11/3/2011	625.40	627.26	606.40	586.40	14.36	0.06	14.42	12.51	612.89	-0.36	26.50	Yes	
LRMW-9	11/9/2011	625.40	627.26	606.40	586.40	14.33	0.05	14.38	12.48	612.92	0.03	26.53	Yes	
LRMW-9	11/17/2011	625.40	627.26	606.40	586.40	14.61	0.06	14.67	12.76	612.64	-0.28	26.25	Yes	
LRMW-9	11/22/2011	625.40	627.26	606.40	586.40	14.64	0.05	14.69	12.79	612.61	-0.03	26.22	Yes	
LRMW-9	12/1/2011	625.40	627.26	606.40	586.40	14.81	0.06	14.87	12.96	612.44	-0.17	26.05	Yes	
LRMW-9	1/4/2012	625.40	627.26	606.40	586.40	15.30	0.04	15.34	13.45	611.95	-0.49	25.56	Yes	
LRMW-9	2/16/2012	625.40	627.26	606.40	586.40	16.01	0.04	16.05	14.16	611.24	-0.71	24.85	Yes	
LRMW-9	3/13/2012	625.40	627.26	606.40	586.40	15.78	0.03	15.81	13.93	611.47	0.23	25.08	Yes	
LRMW-9	4/16/2012	625.40	627.26	606.40	586.40	NP	0.00	14.59	12.73	612.67	1.20	26.27	Yes	
LRMW-9	5/18/2012	625.40	627.26	606.40	586.40	13.70	0.03	13.73	11.85	613.55	0.88	27.16	Yes	
LRMW-9	6/28/2012	625.40	627.26	606.40	586.40	10.45	0.03	10.48	8.60	616.80	3.25	30.41	Yes	
LRMW-9	7/24/2012	625.40	627.26	606.40	586.40	13.11	0.04	13.15	11.26	614.14	-2.66	27.75	Yes	
LRMW-9	8/17/2012	625.40	627.26	606.40	586.40	13.73	0.07	13.80	11.89	613.51	-0.63	27.13	Yes	
LRMW-9	8/28/2012	625.40	627.26	606.40	586.40	14.13	0.02	14.15	12.27	613.13	-0.39	26.73	Yes	

Table 4
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)	Comment
LRMW-9	9/17/2012	625.40	627.26	606.40	586.40	14.75	0.04	14.79	12.90	612.50	-0.62	26.11	Yes	
LRMW-9	9/30/2012	625.40	627.26	606.40	586.40	15.05	0.03	15.08	13.20	612.20	-0.30	25.81	Yes	
LRMW-9	11/21/2012	625.40	627.26	606.40	586.40	15.29	0.03	15.32	13.44	611.96	-0.24	25.57	Yes	
LRMW-9	12/17/2012	625.40	627.26	606.40	586.40	15.40	0.02	15.42	13.54	611.86	-0.11	25.46	Yes	
LRMW-9	3/25/2013	625.40	627.26	606.40	586.40	NP	0.00	16.59	14.73	610.67	-1.19	24.27	Yes	
LRMW-9	5/6/2013	625.40	627.26	606.40	586.40	NP	0.00	13.75	11.89	613.51	2.84	27.11	Yes	
LRMW-9	10/3/2013	625.40	627.26	606.40	586.40	NP	0.00	14.85	12.99	612.41	-1.10	26.01	Yes	
LRMW-9	5/21/2014	625.40	627.26	606.40	586.40	NP	0.00	10.55	8.69	616.71	4.30	30.31	Yes	
LRMW-9	7/30/2014	625.40	627.26	606.40	586.40	NP	0.00	13.84	11.98	613.42	-3.29	27.02	Yes	
LRMW-9	10/31/2014	625.40	627.26	606.40	586.40	NP	0.00	13.19	11.33	614.07	0.65	27.67	Yes	
LRMW-9	4/15/2015	625.40	627.26	606.40	586.40	NP	0.00	14.80	12.94	612.46	-1.61	26.06	Yes	
LRMW-9	4/22/2015	625.40	627.26	606.40	586.40	NP	0.00	14.10	12.24	613.16	0.70	26.76	Yes	
LRMW-9	4/29/2015	625.40	627.26	606.40	586.40	NP	0.00	13.91	12.05	613.35	0.19	26.95	Yes	
LRMW-9	5/5/2015	625.40	627.26	606.40	586.40	NP	0.00	14.03	12.17	613.23	-0.12	26.83	Yes	
LRMW-9	5/12/2015	625.40	627.26	606.40	586.40	NP	0.00	13.20	11.34	614.06	0.83	27.66	Yes	
LRMW-9	6/9/2015	625.40	627.26	606.40	586.40	NP	0.00	12.21	10.35	615.05	0.99	28.65	Yes	
LRMW-9	10/5/2015	625.40	627.26	606.40	586.40	NP	0.00	12.30	10.44	614.96	-0.09	28.56	Yes	
LRMW-9	5/23/2016	625.40	627.26	606.40	586.40	NP	0.00	10.78	8.92	616.48	1.52	30.08	Yes	
LRMW-9	10/3/2016	625.40	627.26	606.40	586.40	NP	0.00	12.41	10.55	614.85	-1.63	28.45	Yes	
LRMW-9	5/2/2017	625.40	627.26	606.40	586.40	NP	0.00	9.54	7.68	617.72	2.87	31.32	Yes	
LRMW-9	5/31/2017	625.40	627.26	606.40	586.40	NP	0.00	10.59	8.73	616.67	-1.05	30.27	Yes	
LRMW-9	6/22/2017	625.40	627.26	606.40	586.40	NP	0.00	11.19	9.33	616.07	-0.60	29.67	Yes	
LRMW-9	5/30/2018	625.40	627.26	606.40	586.40	NP	0.00	12.20	10.34	615.06	-1.01	28.66	Yes	
LRMW-9	6/18/2018	625.40	627.26	606.40	586.40	NP	0.00	10.75	8.89	616.51	1.45	30.11	Yes	
LRMW-9	6/27/2018	625.40	627.26	606.40	586.40	NP	0.00	11.24	9.38	616.02	-0.49	29.62	Yes	
LRMW-10	7/28/2011	623.40	625.71	600.40	580.40	9.68	15.81	25.49	10.77	612.63	NA	35.63	Yes	
LRMW-10	8/1/2011	623.40	625.71	600.40	580.40	12.08	7.74	19.82	11.43	611.97	-0.67	33.23	Yes	
LRMW-10	8/18/2011	623.40	625.71	600.40	580.40	13.59	0.32	13.91	11.35	612.05	0.08	31.72	Yes	After bail down testing
LRMW-10	8/25/2011	623.40	625.71	600.40	580.40	14.02	0.33	14.35	11.78	611.62	-0.43	31.29	Yes	
LRMW-10	9/1/2011	623.40	625.71	600.40	580.40	14.44	0.28	14.72	12.19	611.21	-0.41	30.87	Yes	
LRMW-10	9/8/2011	623.40	625.71	600.40	580.40	14.89	0.31	15.20	12.65	610.75	-0.46	30.42	Yes	
LRMW-10	9/14/2011	623.40	625.71	600.40	580.40	15.19	0.30	15.49	12.94	610.46	-0.30	30.12	Yes	
LRMW-10	9/23/2011	623.40	625.71	600.40	580.40	15.43	0.30	15.73	13.18	610.22	-0.24	29.88	Yes	
LRMW-10	9/29/2011	623.40	625.71	600.40	580.40	15.56	0.31	15.87	13.32	610.08	-0.13	29.75	Yes	
LRMW-10	10/7/2011	623.40	625.71	600.40	580.40	15.72	0.30	16.02	13.47	609.93	-0.16	29.59	Yes	
LRMW-10	10/11/2011	623.40	625.71	600.40	580.40	15.80	0.29	16.09	13.55	609.85	-0.08	29.51	Yes	
LRMW-10	10/21/2011	623.40	625.71	600.40	580.40	15.92	0.28	16.20	13.67	609.73	-0.12	29.39	Yes	
LRMW-10	10/27/2011	623.40	625.71	600.40	580.40	16.01	0.29	16.30	13.76	609.64	-0.09	29.30	Yes	
LRMW-10	11/3/2011	623.40	625.71	600.40	580.40	16.15	0.29	16.44	13.90	609.50	-0.14	29.16	Yes	
LRMW-10	11/9/2011	623.40	625.71	600.40	580.40	16.19	0.29	16.48	13.94	609.46	-0.04	29.12	Yes	

Table 4
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)	Comment
LRMW-10	11/17/2011	623.40	625.71	600.40	580.40	16.38	0.31	16.69	14.14	609.26	-0.19	28.93	Yes	
LRMW-10	11/22/2011	623.40	625.71	600.40	580.40	16.42	0.28	16.70	14.17	609.23	-0.03	28.89	Yes	
LRMW-10	12/1/2011	623.40	625.71	600.40	580.40	16.51	0.28	16.79	14.26	609.14	-0.09	28.80	Yes	
LRMW-10	1/4/2012	623.40	625.71	600.40	580.40	16.94	0.26	17.20	14.69	608.71	-0.43	28.37	Yes	
LRMW-10	2/16/2012	623.40	625.71	600.40	580.40	17.43	0.26	17.69	15.18	608.22	-0.49	27.88	Yes	
LRMW-10	3/13/2012	623.40	625.71	600.40	580.40	16.90	0.25	17.15	14.64	608.76	0.53	28.41	Yes	
LRMW-10	4/12/2012	623.40	625.71	600.40	580.40	16.34	0.22	16.56	14.08	609.32	0.57	28.97	Yes	
LRMW-10	4/16/2012	623.40	625.71	600.40	580.40	NP	0.00	15.70	13.39	610.01	0.69	29.61	Yes	
LRMW-10	5/18/2012	623.40	625.71	600.40	580.40	15.29	0.23	15.52	13.03	610.37	0.36	30.02	Yes	
LRMW-10	6/28/2012	623.40	625.71	600.40	580.40	12.56	0.23	12.79	10.30	613.10	2.73	32.75	Yes	
LRMW-10	7/24/2012	623.40	625.71	600.40	580.40	14.97	0.18	15.15	12.70	610.70	-2.40	30.34	Yes	
LRMW-10	8/17/2012	623.40	625.71	600.40	580.40	15.61	0.23	15.84	13.35	610.05	-0.65	29.70	Yes	
LRMW-10	8/28/2012	623.40	625.71	600.40	580.40	15.97	0.21	16.18	13.71	609.69	-0.36	29.34	Yes	Spill Buddy Before Reading
LRMW-10	9/17/2012	623.40	625.71	600.40	580.40	16.54	0.03	16.57	14.24	609.16	-0.53	28.77	Yes	
LRMW-10	9/30/2012	623.40	625.71	600.40	580.40	NP	0.00	16.80	14.49	608.91	-0.25	28.51	Yes	
LRMW-10	11/21/2012	623.40	625.71	600.40	580.40	17.01	0.01	17.02	14.70	608.70	-0.21	28.30	Yes	
LRMW-10	12/17/2012	623.40	625.71	600.40	580.40	NP	0.00	17.09	14.78	608.62	-0.08	28.22	Yes	
LRMW-10	3/25/2013	623.40	625.71	600.40	580.40	NP	0.00	17.76	15.45	607.95	-0.67	27.55	Yes	
LRMW-10	5/6/2013	623.40	625.71	600.40	580.40	NP	0.00	14.90	12.59	610.81	2.86	30.41	Yes	
LRMW-10	10/3/2013	623.40	625.71	600.40	580.40	NP	0.00	16.51	14.20	609.20	-1.61	28.80	Yes	
LRMW-10	5/21/2014	623.40	625.71	600.40	580.40	NP	0.00	12.64	10.33	613.07	3.87	32.67	Yes	
LRMW-10	7/30/2014	623.40	625.71	600.40	580.40	NP	0.00	14.90	12.59	610.81	-2.26	30.41	Yes	
LRMW-10	10/31/2014	623.40	625.71	600.40	580.40	15.03	0.01	15.04	12.72	610.68	-0.13	30.28	Yes	
LRMW-10	4/15/2015	623.40	625.71	600.40	580.40	NP	0.00	15.94	13.63	609.77	-0.91	29.37	Yes	
LRMW-10	4/22/2015	623.40	625.71	600.40	580.40	NP	0.00	15.23	12.92	610.48	0.71	30.08	Yes	
LRMW-10	4/29/2015	623.40	625.71	600.40	580.40	NP	0.00	15.17	12.86	610.54	0.06	30.14	Yes	
LRMW-10	5/6/2015	623.40	625.71	600.40	580.40	15.31	0.32	15.63	13.07	610.33	-0.21	30.00	Yes	
LRMW-10	5/12/2015	623.40	625.71	600.40	580.40	14.52	0.32	14.84	12.28	611.12	0.79	30.79	Yes	
LRMW-10	6/9/2015	623.40	625.71	600.40	580.40	13.98	0.27	14.25	11.73	611.67	0.55	31.33	Yes	
LRMW-10	10/6/2015	623.40	625.71	600.40	580.40	14.36	0.14	14.50	12.08	611.32	-0.35	30.95	Yes	
LRMW-10	5/23/2016	623.40	625.71	600.40	580.40	13.40	0.10	13.50	11.11	612.29	0.97	31.91	Yes	
LRMW-10	10/3/2016	623.40	625.71	600.40	580.40	14.70	0.10	14.80	12.41	610.99	-1.30	30.61	Yes	
LRMW-10	5/22/2017	623.40	625.71	600.40	580.40	12.29	0.08	12.37	10.00	613.40	2.41	33.02	Yes	
LRMW-10	5/31/2017	623.40	625.71	600.40	580.40	12.31	0.08	12.39	10.02	613.38	-0.02	33.00	Yes	
LRMW-10	6/22/2017	623.40	625.71	600.40	580.40	13.64	0.08	13.72	11.35	612.05	-1.33	31.67	Yes	
LRMW-10	8/8/2018	623.40	625.71	600.40	580.40	15.14	0.09	15.23	12.85	610.55	-1.50	30.17	Yes	
LRMW-10	10/2/2018	623.40	625.71	600.40	580.40	14.87	0.06	14.93	12.57	610.83	0.28	30.44	Yes	
LRMW-10	10/22/2018	623.40	625.71	600.40	580.40	13.96	0.05	14.01	11.66	611.74	0.91	31.35	Yes	
LRMW-11	7/21/2011	623.90	626.14	598.90	583.90	NP	0.00	14.96	12.72	611.18	NA	27.28	Yes	
LRMW-11	7/28/2011	623.90	626.14	598.90	583.90	14.97	0.04	15.01	12.74	611.16	-0.02	27.27	Yes	
LRMW-11	8/18/2011	623.90	626.14	598.90	583.90	14.81	0.13	14.94	12.60	611.30	0.14	27.43	Yes	
LRMW-11	8/25/2011	623.90	626.14	598.90	583.90	15.22	0.21	15.43	13.03	610.87	-0.43	27.02	Yes	
LRMW-11	9/1/2011	623.90	626.14	598.90	583.90	15.62	0.26	15.88	13.45	610.45	-0.41	26.62	Yes	
LRMW-11	9/8/2011	623.90	626.14	598.90	583.90	16.04	0.31	16.35	13.88	610.02	-0.43	26.20	Yes	
LRMW-11	9/14/2011	623.90	626.14	598.90	583.90	16.34	0.31	16.65	14.18	609.72	-0.30	25.90	Yes	
LRMW-11	9/23/2011	623.90	626.14	598.90	583.90	16.56	0.38	16.94	14.42	609.48	-0.24	25.68	Yes	

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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)	Comment
LRMW-11	9/29/2011	623.90	626.14	598.90	583.90	16.68	0.42	17.10	14.55	609.35	-0.13	25.56	Yes	
LRMW-11	10/7/2011	623.90	626.14	598.90	583.90	16.80	0.48	17.28	14.68	609.22	-0.14	25.44	Yes	
LRMW-11	10/11/2011	623.90	626.14	598.90	583.90	16.89	0.48	17.37	14.77	609.13	-0.09	25.35	Yes	
LRMW-11	10/21/2011	623.90	626.14	598.90	583.90	16.99	0.56	17.55	14.89	609.01	-0.12	25.25	Yes	
LRMW-11	10/27/2011	623.90	626.14	598.90	583.90	17.05	0.60	17.65	14.96	608.94	-0.07	25.19	Yes	
LRMW-11	11/3/2011	623.90	626.14	598.90	583.90	17.19	0.65	17.84	15.11	608.79	-0.15	25.05	Yes	
LRMW-11	11/9/2011	623.90	626.14	598.90	583.90	17.22	0.71	17.93	15.16	608.74	-0.05	25.02	Yes	
LRMW-11	11/17/2011	623.90	626.14	598.90	583.90	17.35	0.80	18.15	15.31	608.59	-0.15	24.89	Yes	
LRMW-11	11/22/2011	623.90	626.14	598.90	583.90	17.39	0.82	18.21	15.36	608.54	-0.05	24.85	Yes	
LRMW-11	12/1/2011	623.90	626.14	598.90	583.90	17.46	0.90	18.36	15.45	608.45	-0.09	24.78	Yes	
LRMW-11	1/4/2012	623.90	626.14	598.90	583.90	17.83	1.20	19.03	15.89	608.01	-0.45	24.41	Yes	
LRMW-11	2/16/2012	623.90	626.14	598.90	583.90	18.20	1.48	19.68	16.33	607.57	-0.44	24.04	Yes	
LRMW-11	3/13/2012	623.90	626.14	598.90	583.90	17.54	1.66	19.20	15.72	608.18	0.61	24.70	Yes	
LRMW-11	4/12/2012	623.90	626.14	598.90	583.90	16.90	1.80	18.70	15.11	608.79	0.60	25.34	Yes	Spill Buddy Before Reading
LRMW-11	4/16/2012	623.90	626.14	598.90	583.90	NP	0.00	16.69	14.45	609.45	0.66	25.55	Yes	
LRMW-11	5/18/2012	623.90	626.14	598.90	583.90	16.25	0.23	16.48	14.07	609.83	0.38	25.99	Yes	
LRMW-11	6/28/2012	623.90	626.14	598.90	583.90	13.60	0.30	13.90	11.44	612.46	2.63	28.64	Yes	
LRMW-11	7/24/2012	623.90	626.14	598.90	583.90	15.96	0.42	16.38	13.83	610.07	-2.39	26.28	Yes	
LRMW-11	8/17/2012	623.90	626.14	598.90	583.90	16.60	0.53	17.13	14.49	609.41	-0.67	25.64	Yes	
LRMW-11	8/28/2012	623.90	626.14	598.90	583.90	16.96	0.58	17.54	14.87	609.03	-0.37	25.28	Yes	Spill Buddy Before Reading
LRMW-11	9/17/2012	623.90	626.14	598.90	583.90	17.65	0.04	17.69	15.42	608.48	-0.55	24.59	Yes	
LRMW-11	9/30/2012	623.90	626.14	598.90	583.90	17.88	0.21	18.09	15.69	608.21	-0.27	24.36	Yes	
LRMW-11	11/21/2012	623.90	626.14	598.90	583.90	18.04	0.52	18.56	15.93	607.97	-0.24	24.20	Yes	
LRMW-11	12/17/2012	623.90	626.14	598.90	583.90	18.10	0.64	18.74	16.02	607.88	-0.09	24.14	Yes	
LRMW-11	3/25/2013	623.90	626.14	598.90	583.90	18.60	0.98	19.58	16.61	607.29	-0.59	23.64	Yes	
LRMW-11	5/6/2013	623.90	626.14	598.90	583.90	15.56	1.02	16.58	13.58	610.32	3.03	26.68	Yes	
LRMW-11	10/3/2013	623.90	626.14	598.90	583.90	17.26	1.55	18.81	15.41	608.49	-1.83	24.98	Yes	
LRMW-11	5/22/2014	623.90	626.14	598.90	583.90	13.09	2.19	15.28	11.40	612.50	4.01	29.15	Yes	
LRMW-11	10/31/2014	623.90	626.14	598.90	583.90	15.54	2.77	18.31	13.99	609.91	-2.60	26.70	Yes	
LRMW-11	4/15/2015	623.90	626.14	598.90	583.90	16.15	3.20	19.35	14.71	609.19	-0.72	26.09	Yes	
LRMW-11	4/22/2015	623.90	626.14	598.90	583.90	16.18	0.24	16.42	14.00	609.90	0.71	26.06	Yes	
LRMW-11	4/29/2015	623.90	626.14	598.90	583.90	16.10	0.22	16.32	13.92	609.98	0.09	26.14	Yes	
LRMW-11	5/6/2015	623.90	626.14	598.90	583.90	16.19	0.21	16.40	14.00	609.90	-0.09	26.05	Yes	
LRMW-11	5/12/2015	623.90	626.14	598.90	583.90	15.57	0.21	15.78	13.38	610.52	0.62	26.67	Yes	
LRMW-11	6/9/2015	623.90	626.14	598.90	583.90	15.06	0.21	15.27	12.87	611.03	0.51	27.18	Yes	
LRMW-11	10/5/2015	623.90	626.14	598.90	583.90	15.43	0.30	15.73	13.27	610.63	-0.39	26.81	Yes	
LRMW-11	5/23/2016	623.90	626.14	598.90	583.90	14.59	0.58	15.17	12.50	611.40	0.77	27.65	Yes	
LRMW-11	10/3/2016	623.90	626.14	598.90	583.90	15.82	0.83	16.65	13.79	610.11	-1.29	26.42	Yes	
LRMW-11	5/22/2017	623.90	626.14	598.90	583.90	14.34	1.20	15.54	12.40	611.50	1.39	27.90	Yes	
LRMW-11	5/31/2017	623.90	626.14	598.90	583.90	13.34	1.22	14.56	11.41	612.49	0.99	28.90	Yes	
LRMW-11	6/22/2017	623.90	626.14	598.90	583.90	14.83	0.44	15.27	12.70	611.20	-1.29	27.41	Yes	

Table 4
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)	Comment
LRMW-11	8/8/2018	623.90	626.14	598.90	583.90	16.14	1.03	17.17	14.16	609.74	-1.46	26.10	Yes	
LRMW-11	8/16/2018	623.90	626.14	598.90	583.90	16.64	0.31	16.95	14.48	609.42	-0.32	25.60	Yes	
LRMW-11	10/2/2018	623.90	626.14	598.90	583.90	16.04	0.30	16.34	13.88	610.02	0.60	26.20	Yes	
LRMW-11	10/22/2018	623.90	626.14	598.90	583.90	15.21	0.07	15.28	12.99	610.91	0.89	27.03	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-1D	6/18/2018	618.12	620.82	568.12	565.12	NP	0.00	7.40	4.70	613.42		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-2	10/22/2003	622.93	625.90	617.05	602.05	NP	0.00	18.77	15.80	607.13	NA	5.08	No	

Table 4
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)	Comment
MWRR-2	1/20/2004	622.93	625.90	617.05	602.05	NP	0.00	19.24	16.27	606.66	-0.47	4.61	No	
MWRR-2	4/19/2004	622.93	625.90	617.05	602.05	NP	0.00	16.92	13.95	608.98	2.32	6.93	No	
MWRR-2	7/27/2004	622.93	625.90	617.05	602.05	NP	0.00	17.25	14.28	608.65	-0.33	6.60	No	
MWRR-2	11/16/2004	622.93	625.90	617.05	602.05	NP	0.00	16.73	13.76	609.17	0.52	7.12	No	
MWRR-2	4/18/2005	622.93	625.90	617.05	602.05	NP	0.00	16.11	13.14	609.79	0.62	7.74	No	
MWRR-2	10/11/2005	622.93	625.90	617.05	602.05	NP	0.00	17.01	14.04	608.89	-0.90	6.84	No	
MWRR-2	5/23/2006	622.93	625.90	617.05	602.05	NP	0.00	16.03	13.06	609.87	0.98	7.82	No	
MWRR-2	10/16/2006	622.93	625.90	617.05	602.05	NP	0.00	18.47	15.50	607.43	-2.44	5.38	No	
MWRR-2	4/23/2007	622.93	625.90	617.05	602.05	NP	0.00	16.73	13.76	609.17	1.74	7.12	No	
MWRR-2	9/25/2007	622.93	625.73	617.05	602.05	NP	0.00	18.00	15.20	607.73	-1.44	5.68	No	
MWRR-2	5/1/2008	622.93	625.73	617.05	602.05	NP	0.00	15.14	12.34	610.59	2.86	8.54	No	
MWRR-2	10/20/2008	622.93	625.73	617.05	602.05	NP	0.00	16.21	13.41	609.52	-1.07	7.47	No	
MWRR-2	4/18/2009	622.93	625.73	617.05	602.05	NP	0.00	16.26	13.46	609.47	-0.05	7.42	No	
MWRR-2	10/11/2009	622.93	625.73	617.05	602.05	NP	0.00	18.11	15.31	607.62	-1.85	5.57	No	
MWRR-2	4/28/2010	622.93	625.73	617.05	602.05	NP	0.00	17.32	14.52	608.41	0.79	6.36	No	
MWRR-2	10/25/2010	622.93	625.73	617.05	602.05	NP	0.00	17.04	14.24	608.69	0.28	6.64	No	
MWRR-2	4/25/2011	622.93	625.73	617.05	602.05	NP	0.00	16.28	13.48	609.45	0.76	7.40	No	
MWRR-2	10/11/2011	622.93	625.73	617.05	602.05	NP	0.00	18.16	15.36	607.57	-1.88	5.52	No	
MWRR-2	1/4/2012	622.93	625.73	617.05	602.05	NP	0.00	19.08	16.28	606.65	-0.92	4.60	No	
MWRR-2	4/16/2012	622.93	625.73	617.05	602.05	NP	0.00	18.14	15.34	607.59	0.94	5.54	No	
MWRR-2	6/28/2012	622.93	625.73	617.05	602.05	NP	0.00	14.98	12.18	610.75	3.16	8.70	No	
MWRR-2	9/30/2012	622.93	625.73	617.05	602.05	NP	0.00	18.86	16.06	606.87	-3.88	4.82	No	
MWRR-2	12/17/2012	622.93	625.73	617.05	602.05	NP	0.00	19.20	16.40	606.53	-0.34	4.48	No	
MWRR-2	3/25/2013	622.93	625.73	617.05	602.05	NP	0.00	19.25	16.45	606.48	-0.05	4.43	No	
MWRR-2	5/6/2013	622.93	625.73	617.05	602.05	NP	0.00	16.39	13.59	609.34	2.86	7.29	No	
MWRR-2	10/3/2013	622.93	625.73	617.05	602.05	NP	0.00	18.77	15.97	606.96	-2.38	4.91	No	
MWRR-2	5/21/2014	622.93	625.73	617.05	602.05	NP	0.00	14.40	11.60	611.33	4.37	9.28	No	
MWRR-2	10/31/2014	622.93	625.73	617.05	602.05	NP	0.00	17.55	14.75	608.18	-3.15	6.13	No	
MWRR-2	5/5/2015	622.93	625.73	617.05	602.05	NP	0.00	17.38	14.58	608.35	0.17	6.30	No	
MWRR-2	10/6/2015	622.93	625.73	617.05	602.05	NP	0.00	17.00	14.20	608.73	0.38	6.68	No	
MWRR-2	5/23/2016	622.93	625.73	617.05	602.05	NP	0.00	16.22	13.42	609.51	0.78	7.46	No	
MWRR-2	10/3/2016	622.93	625.73	617.05	602.05	NP	0.00	17.50	14.70	608.23	-1.28	6.18	No	
MWRR-2	6/29/2017	622.93	625.73	617.05	602.05	NP	0.00	16.55	13.75	609.18	0.95	7.13	No	
MWRR-4	10/21/2003	623.27	626.13	613.27	603.27	NP	0.00	18.85	15.99	607.28	NA	4.01	No	
MWRR-4	12/3/2003	623.27	626.13	613.27	603.27	18.65	1.45	20.10	16.09	607.18	-0.10	4.21	No	
MWRR-4	1/20/2004	623.27	626.13	613.27	603.27	18.97	2.50	21.47	16.62	606.65	-0.54	3.89	No	
MWRR-4	4/19/2004	623.27	626.13	613.27	603.27	NP	0.00	17.12	14.26	609.01	2.36	5.74	No	
MWRR-4	7/27/2004	623.27	626.13	613.27	603.27	17.06	0.10	17.16	14.22	609.05	0.04	5.80	No	
MWRR-4	11/15/2004	623.27	626.13	613.27	603.27	16.41	0.03	16.44	13.56	609.71	0.66	6.45	No	
MWRR-4	4/18/2005	623.27	626.13	613.27	603.27	16.26	0.01	16.27	13.40	609.87	0.15	6.60	No	

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MWRR-4	10/11/2005	623.27	626.13	613.27	603.27	NP	0.00	16.71	13.85	609.42	-0.45	6.15	No	
MWRR-4	5/23/2006	623.27	626.13	613.27	603.27	NP	0.00	15.98	13.12	610.15	0.73	6.88	No	
MWRR-4	10/16/2006	623.27	626.13	613.27	603.27	18.29	0.94	19.23	15.62	607.65	-2.50	4.57	No	
MWRR-4	4/23/2007	623.27	626.13	613.27	603.27	NP	0.00	16.70	13.84	609.43	1.78	6.16	No	
MWRR-4	9/25/2007	623.27	626.13	613.27	603.27	NP	0.00	17.44	14.58	608.69	-0.74	5.42	No	
MWRR-4	5/1/2008	623.27	626.13	613.27	603.27	NP	0.00	15.77	12.91	610.36	1.67	7.09	No	
MWRR-4	10/20/2008	623.27	626.13	613.27	603.27	NP	0.00	16.09	13.23	610.04	-0.32	6.77	No	
MWRR-4	4/18/2009	623.27	626.13	613.27	603.27	NP	0.00	16.27	13.41	609.86	-0.18	6.59	No	
MWRR-4	10/11/2009	623.27	626.13	613.27	603.27	NP	0.00	18.00	15.14	608.13	-1.73	4.86	No	
MWRR-4	4/28/2010	623.27	626.13	613.27	603.27	NP	0.00	17.38	14.52	608.75	0.62	5.48	No	
MWRR-4	10/25/2010	623.27	626.13	613.27	603.27	NP	0.00	16.68	13.82	609.45	0.70	6.18	No	
MWRR-4	4/25/2011	623.27	626.13	613.27	603.27	NP	0.00	16.41	13.55	609.72	0.27	6.45	No	
MWRR-4	10/11/2011	623.27	626.13	613.27	603.27	NP	0.00	18.06	15.20	608.07	-1.65	4.80	No	
MWRR-4	1/4/2012	623.27	626.13	613.27	603.27	19.10	0.29	19.39	16.30	606.97	-1.10	3.76	No	
MWRR-4	4/16/2012	623.27	626.13	613.27	603.27	NP	0.00	18.04	15.18	608.09	1.12	4.82	No	
MWRR-4	6/28/2012	623.27	626.13	613.27	603.27	NP	0.00	15.12	12.26	611.01	2.92	7.74	No	
MWRR-4	9/30/2012	623.27	626.13	613.27	603.27	18.90	0.13	19.03	16.07	607.20	-3.81	3.96	No	
MWRR-4	12/17/2012	623.27	626.13	613.27	603.27	18.90	2.13	21.03	16.48	606.79	-0.41	3.96	No	
MWRR-4	3/25/2013	623.27	626.13	613.27	603.27	19.26	2.93	22.19	17.00	606.27	-0.52	3.60	No	
MWRR-4	5/6/2013	623.27	626.13	613.27	603.27	NP	0.00	16.67	13.81	609.46	3.19	6.19	No	
MWRR-4	10/3/2013	623.27	626.13	613.27	603.27	19.60	0.26	19.86	16.79	606.48	-2.98	3.26	No	
MWRR-4	5/22/2014	623.27	626.13	613.27	603.27	NP	0.00	14.85	11.99	611.28	4.80	8.01	No	
MWRR-4	10/31/2014	623.27	626.13	613.27	603.27	NP	0.00	17.27	14.41	608.86	-2.42	5.59	No	
MWRR-4	4/15/2015	623.27	626.13	613.27	603.27	NP	0.00	18.13	15.27	608.00	-0.86	4.73	No	
MWRR-4	4/22/2015	623.27	626.13	613.27	603.27	NP	0.00	17.44	14.58	608.69	0.69	5.42	No	
MWRR-4	4/29/2015	623.27	626.13	613.27	603.27	NP	0.00	17.12	14.26	609.01	0.32	5.74	No	
MWRR-4	5/6/2015	623.27	626.13	613.27	603.27	NP	0.00	17.27	14.41	608.86	-0.15	5.59	No	
MWRR-4	5/12/2015	623.27	626.13	613.27	603.27	NP	0.00	16.85	13.99	609.28	0.42	6.01	No	
MWRR-4	6/9/2015	623.27	626.13	613.27	603.27	NP	0.00	16.15	13.29	609.98	0.70	6.71	No	
MWRR-4	10/6/2015	623.27	626.13	613.27	603.27	NP	0.00	16.51	13.65	609.62	-0.36	6.35	No	
MWRR-4	5/23/2016	623.27	626.13	613.27	603.27	NP	0.00	15.82	12.96	610.31	0.69	7.04	No	
MWRR-4	10/3/2016	623.27	626.13	613.27	603.27	NP	0.00	17.04	14.18	609.09	-1.22	5.82	No	
MWRR-4	5/22/2017	623.27	626.13	613.27	603.27	NP	0.00	15.12	12.26	611.01	1.92	7.74	No	
MWRR-4	5/31/2017	623.27	626.13	613.27	603.27	NP	0.00	15.00	12.14	611.13	0.12	7.86	No	
MWRR-4	6/22/2017	623.27	626.13	613.27	603.27	NP	0.00	15.97	13.11	610.16	-0.97	6.89	No	
MWRR-4	5/30/2018	623.27	626.13	613.27	603.27	NP	0.00	16.28	13.42	609.85	-0.31	6.58	No	
MWRR-4	6/18/2018	623.27	626.13	613.27	603.27	NP	0.00	15.79	12.93	610.34	0.49	7.07	No	
MWRR-8	10/22/2003	622.90	624.62	613.82	598.82	17.94	0.04	17.98	16.23	606.67	NA	7.86	No	
MWRR-8	1/20/2004	622.90	624.62	613.82	598.82	18.43	0.02	18.45	16.71	606.19	-0.49	7.37	No	
MWRR-8	4/19/2004	622.90	624.62	613.82	598.82	16.14	0.06	16.20	14.43	608.47	2.28	9.66	No	

Table 4
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)	Comment
MWRR-8	7/27/2004	622.90	624.62	613.82	598.82	16.37	0.23	16.60	14.69	608.21	-0.26	9.43	No	
MWRR-8	11/15/2004	622.90	624.62	613.82	598.82	15.74	0.01	15.75	14.02	608.88	0.67	10.06	No	
MWRR-8	4/18/2005	622.90	624.62	613.82	598.82	15.37	0.01	15.38	13.65	609.25	0.37	10.43	No	
MWRR-8	10/11/2005	622.90	624.62	613.82	598.82	15.77	0.04	15.81	14.06	608.84	-0.41	10.03	No	
MWRR-8	5/23/2006	622.90	624.62	613.82	598.82	15.34	0.02	15.36	13.62	609.28	0.43	10.46	No	
MWRR-8	10/16/2006	622.90	624.62	613.82	598.82	17.46	0.29	17.75	15.79	607.11	-2.17	8.34	No	
MWRR-8	4/23/2007	622.90	624.62	613.82	598.82	15.82	0.22	16.04	14.14	608.76	1.65	9.98	No	
MWRR-8	9/25/2007	622.90	624.45	613.82	598.82	17.32	0.60	17.92	15.88	607.02	-1.74	8.31	No	
MWRR-8	5/1/2008	622.90	624.45	613.82	598.82	14.56	0.09	14.65	13.03	609.87	2.86	11.07	No	
MWRR-8	10/20/2008	622.90	624.45	613.82	598.82	15.39	0.13	15.52	13.86	609.04	-0.84	10.24	No	
MWRR-8	4/18/2009	622.90	624.45	613.82	598.82	15.31	0.07	15.38	13.77	609.13	0.09	10.32	No	
MWRR-8	10/11/2009	622.90	624.45	613.82	598.82	16.98	0.52	17.50	15.53	607.37	-1.75	8.65	No	
MWRR-8	4/28/2010	622.90	624.45	613.82	598.82	16.34	0.45	16.79	14.87	608.03	0.65	9.29	No	
MWRR-8	10/25/2010	622.90	624.45	613.82	598.82	15.80	0.02	15.82	14.25	608.65	0.62	9.83	No	
MWRR-8	4/25/2011	622.90	624.45	613.82	598.82	15.38	0.07	15.45	13.84	609.06	0.41	10.25	No	
MWRR-8	10/11/2011	622.90	624.45	613.82	598.82	17.05	0.49	17.54	15.59	607.31	-1.75	8.58	No	
MWRR-8	1/4/2012	622.90	624.45	613.82	598.82	18.03	0.34	18.37	16.54	606.36	-0.95	7.60	No	
MWRR-8	4/16/2012	622.90	624.45	613.82	598.82	16.65	1.03	17.68	15.29	607.61	1.25	8.98	No	
MWRR-8	6/28/2012	622.90	624.45	613.82	598.82	14.43	0.36	14.79	12.95	609.95	2.35	11.20	No	
MWRR-8	7/26/2012	622.90	624.45	613.82	598.82	16.07	1.19	17.26	14.74	608.16	-1.80	9.56	No	Spill Buddy Before Reading
MWRR-8	8/28/2012	622.90	624.45	613.82	598.82	17.22	0.63	17.85	15.79	607.11	-1.04	8.41	No	Spill Buddy Before Reading
MWRR-8	9/28/2012	622.90	624.45	613.82	598.82	17.89	0.26	18.15	16.39	606.51	-0.60	7.74	No	Spill Buddy Before Reading
MWRR-8	9/30/2012	622.90	624.45	613.82	598.82	17.92	0.02	17.94	16.37	606.53	0.02	7.71	No	
MWRR-8	11/21/2012	622.90	624.45	613.82	598.82	17.98	0.15	18.13	16.46	606.44	-0.08	7.65	No	
MWRR-8	12/17/2012	622.90	624.45	613.82	598.82	17.98	0.20	18.18	16.47	606.43	-0.01	7.65	No	
MWRR-8	3/25/2013	622.90	624.45	613.82	598.82	18.09	1.28	19.37	16.78	606.12	-0.31	7.54	No	
MWRR-8	5/6/2013	622.90	624.45	613.82	598.82	15.39	0.63	16.02	13.96	608.94	2.82	10.24	No	
MWRR-8	10/3/2013	622.90	624.45	613.82	598.82	17.44	1.06	18.50	16.09	606.81	-2.13	8.19	No	
MWRR-8	5/22/2014	622.90	624.45	613.82	598.82	13.92	0.72	14.64	12.51	610.39	3.58	11.71	No	
MWRR-8	6/18/2014	622.90	624.45	613.82	598.82	14.54	0.87	15.41	13.15	609.75	-0.65	11.09	No	
MWRR-8	10/31/2014	622.90	624.45	613.82	598.82	16.28	1.87	18.15	15.08	607.82	-1.93	9.35	No	
MWRR-8	4/15/2015	622.90	624.45	613.82	598.82	16.54	1.50	18.04	15.27	607.63	-0.19	9.09	No	
MWRR-8	4/22/2015	622.90	624.45	613.82	598.82	16.21	0.18	16.39	14.69	608.21	0.58	9.42	No	
MWRR-8	4/29/2015	622.90	624.45	613.82	598.82	16.07	0.21	16.28	14.56	608.34	0.13	9.56	No	
MWRR-8	5/6/2015	622.90	624.45	613.82	598.82	16.17	0.28	16.45	14.67	608.23	-0.11	9.46	No	
MWRR-8	5/12/2015	622.90	624.45	613.82	598.82	15.81	0.04	15.85	14.27	608.63	0.41	9.82	No	
MWRR-8	6/9/2015	622.90	624.45	613.82	598.82	15.43	0.05	15.48	13.89	609.01	0.38	10.20	No	
MWRR-8	10/5/2015	622.90	624.45	613.82	598.82	15.77	0.08	15.85	14.24	608.66	-0.35	9.86	No	
MWRR-8	5/23/2016	622.90	624.45	613.82	598.82	15.26	0.06	15.32	13.72	609.18	0.51	10.37	No	
MWRR-8	10/3/2016	622.90	624.45	613.82	598.82	16.27	0.38	16.65	14.79	608.11	-1.07	9.36	No	
MWRR-8	5/22/2017	622.90	624.45	613.82	598.82	14.04	0.00	14.04	12.49	610.41	2.30	11.59	No	

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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)	Comment
MWRR-8	5/31/2017	622.90	624.45	613.82	598.82	14.12	0.04	14.16	12.58	610.32	-0.09	11.51	No	
MWRR-8	6/22/2017	622.90	624.45	613.82	598.82	15.43	0.19	15.62	13.92	608.98	-1.34	10.20	No	
MWRR-8	5/30/2018	622.90	624.45	613.82	598.82	15.40	0.05	15.45	13.86	609.04	0.06	10.23	No	
MWRR-8	10/29/2018	622.90	624.45	613.82	598.82	15.57	-0.01	15.56	14.02	608.89	-0.15	10.07	No	
MWOW-1	10/21/2003	607.38	610.16	604.38	599.38	5.58	0.17	5.75	2.83	604.55	NA	5.20	Yes	
MWOW-1	1/20/2004	607.38	610.16	604.38	599.38	6.11	0.24	6.35	3.37	604.01	-0.54	4.67	No	
MWOW-1	4/19/2004	607.38	610.16	604.38	599.38	4.27	0.13	4.40	1.51	605.87	1.86	6.51	Yes	
MWOW-1	7/27/2004	607.38	610.16	604.38	599.38	5.01	0.20	5.21	2.26	605.12	-0.75	5.77	Yes	
MWOW-1	11/15/2004	607.38	610.16	604.38	599.38	4.53	0.31	4.84	1.80	605.58	0.46	6.25	Yes	
MWOW-1	4/18/2005	607.38	610.16	604.38	599.38	4.33	0.31	4.64	1.60	605.78	0.20	6.45	Yes	
MWOW-1	10/11/2005	607.38	610.16	604.38	599.38	4.29	0.25	4.54	1.55	605.83	0.05	6.49	Yes	
MWOW-1	5/23/2006	607.38	610.16	604.38	599.38	4.61	0.35	4.96	1.89	605.49	-0.34	6.17	Yes	
MWOW-1	10/16/2006	607.38	610.16	604.38	599.38	5.06	0.02	5.08	2.28	605.10	-0.40	5.72	Yes	
MWOW-1	4/23/2007	607.38	610.16	604.38	599.38	NP	0.00	4.10	1.32	606.06	0.96	6.68	Yes	
MWOW-1	9/25/2007	607.38	609.99	604.38	599.38	4.25	0.02	4.27	1.64	605.74	-0.32	6.36	Yes	
MWOW-1	5/1/2008	607.38	609.99	604.38	599.38	4.31	0.05	4.36	1.71	605.67	-0.06	6.30	Yes	
MWOW-1	10/20/2008	607.38	609.99	604.38	599.38	4.28	0.74	5.02	1.79	605.59	-0.08	6.33	Yes	
MWOW-1	4/18/2009	607.38	609.99	604.38	599.38	4.42	0.26	4.68	1.85	605.53	-0.06	6.19	Yes	
MWOW-1	10/11/2009	607.38	609.99	604.38	599.38	5.64	0.03	5.67	3.03	604.35	-1.18	4.97	No	
MWOW-1	4/28/2010	607.38	609.99	604.38	599.38	4.85	0.54	5.39	2.33	605.05	0.71	5.76	Yes	
MWOW-1	10/25/2010	607.38	609.99	604.38	599.38	4.32	0.66	4.98	1.82	605.56	0.51	6.29	Yes	
MWOW-1	4/25/2011	607.38	609.99	604.38	599.38	4.48	0.71	5.19	1.99	605.39	-0.17	6.13	Yes	
MWOW-1	10/11/2011	607.38	609.99	604.38	599.38	5.99	0.14	6.13	3.40	603.98	-1.42	4.62	No	
MWOW-1	1/4/2012	607.38	609.99	604.38	599.38	6.61	0.31	6.92	4.05	603.33	-0.65	4.00	No	
MWOW-1	4/16/2012	607.38	609.99	604.38	599.38	4.59	0.26	4.85	2.02	605.36	2.03	6.02	Yes	
MWOW-1	6/28/2012	607.38	609.99	604.38	599.38	4.70	0.40	5.10	2.16	605.22	-0.13	5.91	Yes	
MWOW-1	7/26/2012	607.38	609.99	604.38	599.38	5.79	0.21	6.00	3.21	604.17	-1.06	4.82	No	Spill Buddy Before Reading
MWOW-1	8/28/2012	607.38	609.99	604.38	599.38	6.64	0.21	6.85	4.06	603.32	-0.85	3.97	No	Spill Buddy Before Reading
MWOW-1	9/28/2012	607.38	609.99	604.38	599.38	7.15	0.22	7.37	4.58	602.80	-0.51	3.46	No	Spill Buddy Before Reading
MWOW-1	9/30/2012	607.38	609.99	604.38	599.38	7.14	0.16	7.30	4.56	602.82	0.02	3.47	No	
MWOW-1	11/21/2012	607.38	609.99	604.38	599.38	NP	0.00	6.33	3.72	603.66	0.84	4.28	No	
MWOW-1	12/17/2012	607.38	609.99	604.38	599.38	NP	0.00	6.14	3.53	603.85	0.19	4.47	No	
MWOW-1	3/25/2013	607.38	609.99	604.38	599.38	NP	0.00	6.48	3.87	603.51	-0.34	4.13	No	
MWOW-1	5/6/2013	607.38	609.99	604.38	599.38	4.70	0.05	4.75	2.10	605.28	1.77	5.91	Yes	
MWOW-1	10/3/2013	607.38	609.99	604.38	599.38	NP	0.00	6.51	3.90	603.48	-1.80	4.10	No	
MWOW-1	5/21/2014	607.38	609.99	604.38	599.38	NP	0.00	4.75	2.14	605.24	1.76	5.86	Yes	
MWOW-1	7/30/2014	607.38	609.99	604.38	599.38	6.00	0.01	6.01	3.39	603.99	-1.25	4.61	No	
MWOW-1	10/31/2014	607.38	609.99	604.38	599.38	5.50	0.03	5.53	2.89	604.49	0.50	5.11	Yes	
MWOW-1	4/15/2015	607.38	609.99	604.38	599.38	4.93	0.05	4.98	2.33	605.05	0.57	5.68	Yes	
MWOW-1	4/22/2015	607.38	609.99	604.38	599.38	4.70	0.03	4.73	2.09	605.29	0.23	5.91	Yes	

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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)	Comment
MWOW-1	4/29/2015	607.38	609.99	604.38	599.38	4.86	0.01	4.87	2.25	605.13	-0.16	5.75	Yes	
MWOW-1	5/6/2015	607.38	609.99	604.38	599.38	5.03	0.01	5.04	2.42	604.96	-0.17	5.58	Yes	
MWOW-1	5/12/2015	607.38	609.99	604.38	599.38	NP	0.00	4.78	2.17	605.21	0.25	5.83	Yes	
MWOW-1	6/9/2015	607.38	609.99	604.38	599.38	NP	0.00	5.02	2.41	604.97	-0.24	5.59	Yes	
MWOW-1	10/6/2015	607.38	609.99	604.38	599.38	5.19	0.09	5.28	2.59	604.79	-0.18	5.42	Yes	
MWOW-1	5/23/2016	607.38	609.99	604.38	599.38	5.39	0.10	5.49	2.80	604.58	-0.20	5.22	Yes	
MWOW-1	10/3/2016	607.38	609.99	604.38	599.38	5.41	0.13	5.54	2.82	604.56	-0.02	5.20	Yes	
MWOW-1	5/22/2017	607.38	609.99	604.38	599.38	4.89	0.07	4.96	2.29	605.09	0.53	5.72	Yes	
MWOW-1	5/31/2017	607.38	609.99	604.38	599.38	5.03	0.09	5.12	2.43	604.95	-0.14	5.58	Yes	
MWOW-1	6/22/2017	607.38	609.99	604.38	599.38	5.64	0.10	5.74	3.05	604.33	-0.61	4.97	No	
MWOW-1	5/30/2018	607.38	609.99	604.38	599.38	5.21	0.04	5.25	2.61	604.77	0.44	5.40	Yes	
MWOW-1	10/22/2018	607.38	609.99	604.38	599.38	5.32	0.26	5.58	2.75	604.63	-0.15	5.29	Yes	
MWOW-1	10/29/2018	607.38	609.99	604.38	599.38	5.20	0.27	5.47	2.63	604.75	0.12	5.41	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	

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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)	Comment
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-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-3	10/21/2003	622.65	625.53	616.73	601.73	NP	0.00	18.89	16.01	606.64	NA	4.91	No	
MWOW-3	1/20/2004	622.65	625.53	616.73	601.73	NP	0.00	19.38	16.50	606.15	-0.49	4.42	No	
MWOW-3	4/19/2004	622.65	625.53	616.73	601.73	NP	0.00	17.06	14.18	608.47	2.32	6.74	No	
MWOW-3	7/27/2004	622.65	625.53	616.73	601.73	NP	0.00	17.56	14.68	607.97	-0.50	6.24	No	
MWOW-3	11/16/2004	622.65	625.53	616.73	601.73	NP	0.00	17.04	14.16	608.49	0.52	6.76	No	
MWOW-3	4/18/2005	622.65	625.53	616.73	601.73	NP	0.00	16.33	13.45	609.20	0.71	7.47	No	
MWOW-3	10/11/2005	622.65	625.53	616.73	601.73	NP	0.00	16.86	13.98	608.67	-0.53	6.94	No	
MWOW-3	5/23/2006	622.65	625.53	616.73	601.73	NP	0.00	16.55	13.67	608.98	0.31	7.25	No	
MWOW-3	10/16/2006	622.65	625.53	616.73	601.73	NP	0.00	18.56	15.68	606.97	-2.01	5.24	No	
MWOW-3	4/23/2007	622.65	625.53	616.73	601.73	NP	0.00	16.89	14.01	608.64	1.67	6.91	No	
MWOW-3	9/25/2007	622.65	625.36	616.73	601.73	NP	0.00	17.34	14.63	608.02	-0.62	6.29	No	
MWOW-3	5/1/2008	622.65	625.36	616.73	601.73	NP	0.00	15.57	12.86	609.79	1.77	8.06	No	
MWOW-3	10/20/2008	622.65	625.36	616.73	601.73	NP	0.00	16.51	13.80	608.85	-0.94	7.12	No	
MWOW-3	4/18/2009	622.65	625.36	616.73	601.73	NP	0.00	16.42	13.71	608.94	0.09	7.21	No	
MWOW-3	10/11/2009	622.65	625.36	616.73	601.73	NP	0.00	18.13	15.42	607.23	-1.71	5.50	No	
MWOW-3	4/28/2010	622.65	625.36	616.73	601.73	NP	0.00	17.48	14.77	607.88	0.65	6.15	No	
MWOW-3	10/25/2010	622.65	625.36	616.73	601.73	NP	0.00	16.48	13.77	608.88	1.00	7.15	No	
MWOW-3	4/25/2011	622.65	625.36	616.73	601.73	NP	0.00	16.05	13.34	609.31	0.43	7.58	No	
MWOW-3	10/11/2011	622.65	625.36	616.73	601.73	NP	0.00	19.29	16.58	606.07	-3.24	4.34	No	
MWOW-3	1/4/2012	622.65	625.36	616.73	601.73	NP	0.00	19.13	16.42	606.23	0.16	4.50	No	
MWOW-3	4/16/2012	622.65	625.36	616.73	601.73	NP	0.00	17.76	15.05	607.60	1.37	5.87	No	
MWOW-3	6/28/2012	622.65	625.36	616.73	601.73	NP	0.00	15.72	13.01	609.64	2.04	7.91	No	
MWOW-3	9/30/2012	622.65	625.36	616.73	601.73	NP	0.00	19.03	16.32	606.33	-3.31	4.60	No	
MWOW-3	12/17/2012	622.65	625.36	616.73	601.73	NP	0.00	19.02	16.31	606.34	0.01	4.61	No	
MWOW-3	3/25/2013	622.65	625.36	616.73	601.73	NP	0.00	19.20	16.49	606.16	-0.18	4.43	No	
MWOW-3	5/6/2013	622.65	625.36	616.73	601.73	NP	0.00	16.62	13.91	608.74	2.58	7.01	No	
MWOW-3	10/1/2013	622.65	625.36	616.73	601.73	NP	0.00	18.84	16.13	606.52	-2.22	4.79	No	
MWOW-3	5/21/2014	622.65	625.36	616.73	601.73	NP	0.00	15.25	12.54	610.11	3.59	8.38	No	
MWOW-3	7/30/2014	622.65	625.36	616.73	601.73	NP	0.00	17.64	14.93	607.72	-2.39	5.99	No	
MWOW-3	10/31/2014	622.65	625.36	616.73	601.73	NP	0.00	17.76	15.05	607.60	-0.12	5.87	No	
MWOW-3	4/15/2015	622.65	625.36	616.73	601.73	NP	0.00	17.98	15.27	607.38	-0.22	5.65	No	
MWOW-3	4/22/2015	622.65	625.36	616.73	601.73	NP	0.00	17.34	14.63	608.02	0.64	6.29	No	
MWOW-3	4/29/2015	622.65	625.36	616.73	601.73	NP	0.00	17.34	14.63	608.02	0.00	6.29	No	
MWOW-3	5/5/2015	622.65	625.36	616.73	601.73	NP	0.00	17.51	14.80	607.85	-0.17	6.12	No	

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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)	Comment
MWOW-3	5/12/2015	622.65	625.36	616.73	601.73	NP	0.00	16.92	14.21	608.44	0.59	6.71	No	
MWOW-3	6/9/2015	622.65	625.36	616.73	601.73	NP	0.00	16.79	14.08	608.57	0.13	6.84	No	
MWOW-3	10/6/2015	622.65	625.36	616.73	601.73	NP	0.00	17.27	14.56	608.09	-0.48	6.36	No	
MWOW-3	5/24/2016	622.65	625.36	616.73	601.73	NP	0.00	16.69	13.98	608.67	0.58	6.94	No	
MWOW-3	10/3/2016	622.65	625.36	616.73	601.73	NP	0.00	17.65	14.94	607.71	-0.96	5.98	No	
MWOW-3	5/22/2017	622.65	625.36	616.73	601.73	NP	0.00	15.21	12.50	610.15	2.44	8.42	No	
MWOW-3	5/31/2017	622.65	625.36	616.73	601.73	NP	0.00	15.35	12.64	610.01	-0.14	8.28	No	
MWOW-3	6/22/2017	622.65	625.36	616.73	601.73	NP	0.00	16.89	14.18	608.47	-1.54	6.74	No	
MWOW-5	10/21/2003	622.52	625.13	615.43	600.43	18.23	0.08	18.31	15.63	606.89	NA	6.47	No	
MWOW-5	1/20/2004	622.52	625.13	615.43	600.43	18.68	0.21	18.89	16.10	606.42	-0.47	6.02	No	
MWOW-5	4/19/2004	622.52	625.13	615.43	600.43	NP	0.00	14.66	12.05	610.47	4.05	10.04	No	
MWOW-5	7/27/2004	622.52	625.13	615.43	600.43	NP	0.00	14.61	12.00	610.52	0.05	10.09	No	
MWOW-5	11/15/2004	622.52	625.13	615.43	600.43	15.89	0.01	15.90	13.28	609.24	-1.28	8.81	No	
MWOW-5	4/18/2005	622.52	625.13	615.43	600.43	14.16	0.03	14.19	11.55	610.97	1.73	10.54	No	
MWOW-5	10/11/2005	622.52	625.13	615.43	600.43	NP	0.00	14.54	11.93	610.59	-0.38	10.16	No	
MWOW-5	5/23/2006	622.52	625.13	615.43	600.43	14.16	0.03	14.19	11.55	610.97	0.38	10.54	No	
MWOW-5	10/16/2006	622.52	625.13	615.43	600.43	17.36	0.10	17.46	14.77	607.75	-3.21	7.34	No	
MWOW-5	4/23/2007	622.52	625.13	615.43	600.43	13.34	0.02	13.36	10.73	611.79	4.03	11.36	No	
MWOW-5	9/25/2007	622.52	624.96	615.43	600.43	16.95	0.07	17.02	14.52	608.00	-3.79	7.58	No	
MWOW-5	5/1/2008	622.52	624.96	615.43	600.43	16.23	0.07	16.30	13.80	608.72	0.72	8.30	No	
MWOW-5	10/20/2008	622.52	624.96	615.43	600.43	12.80	0.05	12.85	10.37	612.15	3.43	11.73	No	
MWOW-5	4/18/2009	622.52	624.96	615.43	600.43	14.15	0.06	14.21	11.72	610.80	-1.35	10.38	No	
MWOW-5	10/11/2009	622.52	624.96	615.43	600.43	16.46	0.18	16.64	14.05	608.47	-2.33	8.07	No	
MWOW-5	4/28/2010	622.52	624.96	615.43	600.43	14.59	0.09	14.68	12.16	610.36	1.88	9.94	No	
MWOW-5	10/25/2010	622.52	624.96	615.43	600.43	15.41	0.07	15.48	12.98	609.54	-0.82	9.12	No	
MWOW-5	4/25/2011	622.52	624.96	615.43	600.43	13.22	0.08	13.30	10.79	611.73	2.19	11.31	No	
MWOW-5	10/11/2011	622.52	624.96	615.43	600.43	13.22	1.08	14.30	10.95	611.57	-0.16	11.31	No	
MWOW-5	1/4/2012	622.52	624.96	615.43	600.43	18.60	0.50	19.10	16.24	606.28	-5.29	5.93	No	
MWOW-5	4/16/2012	622.52	624.96	615.43	600.43	15.82	0.07	15.89	13.39	609.13	2.85	8.71	No	
MWOW-5	6/28/2012	622.52	624.96	615.43	600.43	13.69	0.06	13.75	11.26	611.26	2.13	10.84	No	
MWOW-5	7/26/2012	622.52	624.96	615.43	600.43	16.19	0.12	16.31	13.77	608.75	-2.51	8.34	No	Spill Buddy Before Reading
MWOW-5	8/28/2012	622.52	624.96	615.43	600.43	17.45	0.35	17.80	15.07	607.45	-1.30	7.08	No	Spill Buddy Before Reading
MWOW-5	9/28/2012	622.52	624.96	615.43	600.43	18.15	0.27	18.42	15.75	606.77	-0.69	6.38	No	Spill Buddy Before Reading
MWOW-5	9/30/2012	622.52	624.96	615.43	600.43	18.04	0.15	18.19	15.62	606.90	0.13	6.49	No	
MWOW-5	11/21/2012	622.52	624.96	615.43	600.43	18.20	0.19	18.39	15.79	606.73	-0.17	6.33	No	
MWOW-5	12/17/2012	622.52	624.96	615.43	600.43	18.17	0.16	18.33	15.76	606.76	0.03	6.36	No	
MWOW-5	3/25/2013	622.52	624.96	615.43	600.43	17.85	0.23	18.08	15.45	607.07	0.31	6.68	No	
MWOW-5	5/6/2013	622.52	624.96	615.43	600.43	14.42	0.07	14.49	11.99	610.53	3.46	10.11	No	
MWOW-5	10/3/2013	622.52	624.96	615.43	600.43	17.87	0.15	18.02	15.45	607.07	-3.46	6.66	No	
MWOW-5	5/22/2014	622.52	624.96	615.43	600.43	13.07	0.04	13.11	10.64	611.88	4.82	11.46	No	

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MWOW-5	6/18/2014	622.52	624.96	615.43	600.43	14.02	0.05	14.07	11.59	610.93	-0.95	10.51	No	
MWOW-5	10/31/2014	622.52	624.96	615.43	600.43	16.84	0.01	16.85	14.40	608.12	-2.81	7.69	No	
MWOW-5	4/15/2015	622.52	624.96	615.43	600.43	NP	0.00	16.61	14.17	608.35	0.23	7.92	No	
MWOW-5	4/22/2015	622.52	624.96	615.43	600.43	NP	0.00	15.93	13.49	609.03	0.68	8.60	No	
MWOW-5	4/29/2015	622.52	624.96	615.43	600.43	NP	0.00	15.64	13.20	609.32	0.29	8.89	No	
MWOW-5	5/6/2015	622.52	624.96	615.43	600.43	15.72	0.01	15.73	13.28	609.24	-0.08	8.81	No	
MWOW-5	5/12/2015	622.52	624.96	615.43	600.43	NP	0.00	15.29	12.85	609.67	0.43	9.24	No	
MWOW-5	6/9/2015	622.52	624.96	615.43	600.43	14.57	0.02	14.59	12.13	610.39	0.72	9.96	No	
MWOW-5	10/5/2015	622.52	624.96	615.43	600.43	15.39	0.02	15.41	12.95	609.57	-0.82	9.14	No	
MWOW-5	5/23/2016	622.52	624.96	615.43	600.43	14.61	0.02	14.63	12.17	610.35	0.78	9.92	No	
MWOW-5	10/3/2016	622.52	624.96	615.43	600.43	NP	0.00	17.29	14.85	607.67	-2.68	7.24	No	
MWOW-5	5/22/2017	622.52	624.96	615.43	600.43	14.76	0.03	14.79	12.32	610.20	2.53	9.77	No	
MWOW-5	5/31/2017	622.52	624.96	615.43	600.43	13.30	0.10	13.40	10.88	611.64	1.45	11.23	No	
MWOW-5	6/22/2017	622.52	624.96	615.43	600.43	15.02	0.07	15.09	12.59	609.93	-1.72	9.51	No	
MWOW-5	5/30/2018	622.52	624.96	615.43	600.43	14.94	0.03	14.97	12.50	610.02	0.09	9.59	No	
MWOW-5	10/22/2018	622.52	624.96	615.43	600.43	15.03	0.03	15.06	12.59	609.93	-0.09	9.50	No	
RWAST-1	10/11/2009	628.35	629.81	618.35	598.35	NP	0.00	15.02	13.56	614.79	NA	16.44	No	
RWAST-1	4/28/2010	628.35	629.81	618.35	598.35	NP	0.00	14.68	13.22	615.13	0.34	16.78	No	
RWAST-1	10/25/2010	628.35	629.81	618.35	598.35	NP	0.00	12.79	11.33	617.02	1.89	18.67	No	
RWAST-1	4/25/2011	628.35	629.81	618.35	598.35	NP	0.00	13.29	11.83	616.52	-0.50	18.17	No	
RWAST-1	10/11/2011	628.35	629.81	618.35	598.35	NP	0.00	14.31	12.85	615.50	-1.02	17.15	No	
RWAST-1	1/4/2012	628.35	629.81	618.35	598.35	NP	0.00	15.79	14.33	614.02	-1.48	15.67	No	
RWAST-1	2/16/2012	628.35	629.81	618.35	598.35	NP	0.00	16.47	15.01	613.34	-0.68	14.99	No	
RWAST-1	3/13/2012	628.35	629.81	618.35	598.35	NP	0.00	16.54	15.08	613.27	-0.07	14.92	No	
RWAST-1	4/16/2012	628.35	629.81	618.35	598.35	NP	0.00	15.86	14.40	613.95	0.68	15.60	No	
RWAST-1	6/28/2012	628.35	629.81	618.35	598.35	NP	0.00	11.30	9.84	618.51	4.56	20.16	Yes	
RWAST-1	9/30/2012	628.35	629.81	618.35	598.35	NP	0.00	15.49	14.03	614.32	-4.19	15.97	No	
RWAST-1	11/21/2012	628.35	629.81	618.35	598.35	NP	0.00	15.96	14.50	613.85	-0.47	15.50	No	
RWAST-1	12/17/2012	628.35	629.81	618.35	598.35	NP	0.00	16.22	14.76	613.59	-0.26	15.24	No	
RWAST-1	3/25/2013	628.35	629.81	618.35	598.35	NP	0.00	17.26	15.80	612.55	-1.04	14.20	No	
RWAST-1	5/6/2013	628.35	629.81	618.35	598.35	NP	0.00	15.23	13.77	614.58	2.03	16.23	No	
RWAST-1	5/23/2016	628.35	629.81	618.35	598.35	NP	0.00	11.08	9.62	618.73	4.15	20.38	Yes	
RWAST-1	10/3/2016	628.35	629.81	618.35	598.35	NP	0.00	12.91	11.45	616.90	-1.83	18.55	No	
RWAST-1	6/29/2017	628.35	629.81	618.35	598.35	NP	0.00	11.91	10.45	617.90	1.00	19.55	No	
RWAST-1	5/30/2018	628.35	629.81	618.35	598.35	NP	0.00	13.28	11.82	616.53	-1.37	18.18	No	
RWAST-1	6/18/2018	628.35	629.81	618.35	598.35	NP	0.00	11.67	10.21	618.14	1.61	19.79	No	
RWAST-1	6/27/2018	628.35	629.81	618.35	598.35	NP	0.00	11.90	10.44	617.91	-0.23	19.56	No	
RWAST-2	10/11/2011	629.37	631.54	615.37	600.37	NP	0.00	15.58	13.41	615.96	NA	15.59	Yes	
RWAST-2	1/4/2012	629.37	631.54	615.37	600.37	NP	0.00	17.19	15.02	614.35	-1.61	13.98	No	

Table 4
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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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)	Comment
RWAST-2	2/16/2012	629.37	631.54	615.37	600.37	NP	0.00	17.89	15.72	613.65	-0.70	13.28	No	
RWAST-2	3/13/2012	629.37	631.54	615.37	600.37	17.99	0.43	18.42	15.91	613.46	-0.19	13.18	No	
RWAST-2	4/16/2012	629.37	631.54	615.37	600.37	16.46	3.70	20.16	15.08	614.29	0.83	14.71	No	
RWAST-2	6/28/2012	629.37	631.54	615.37	600.37	11.79	3.75	15.54	10.43	618.94	4.66	19.38	Yes	
RWAST-2	7/3/2012	629.37	631.54	615.37	600.37	12.38	3.73	16.11	11.01	618.36	-0.59	18.79	Yes	Spill Buddy Before Reading
RWAST-2	8/28/2012	629.37	631.54	615.37	600.37	15.95	0.04	15.99	13.79	615.58	-2.78	15.22	Yes	
RWAST-2	9/28/2012	629.37	631.54	615.37	600.37	16.83	0.06	16.89	14.67	614.70	-0.88	14.34	No	Spill Buddy Before Reading
RWAST-2	9/30/2012	629.37	631.54	615.37	600.37	16.83	0.01	16.84	14.66	614.71	0.01	14.34	No	
RWAST-2	11/21/2012	629.37	631.54	615.37	600.37	17.44	0.33	17.77	15.34	614.03	-0.68	13.73	No	
RWAST-2	12/17/2012	629.37	631.54	615.37	600.37	17.44	1.90	19.34	15.68	613.69	-0.34	13.73	No	
RWAST-2	3/25/2013	629.37	631.54	615.37	600.37	17.21	6.31	23.52	16.40	612.97	-0.72	13.96	No	
RWAST-2	4/29/2013	629.37	631.54	615.37	600.37	15.79	5.31	21.10	14.76	614.61	1.63	15.38	No	Spill Buddy Before Reading
RWAST-2	5/6/2013	629.37	631.54	615.37	600.37	16.37	1.99	18.36	14.63	614.74	0.13	14.80	No	
RWAST-2	10/3/2013	629.37	631.54	615.37	600.37	16.51	2.61	19.12	14.90	614.47	-0.27	14.66	No	
RWAST-2	5/22/2014	629.37	631.54	615.37	600.37	12.14	3.59	15.73	10.74	618.63	4.16	19.03	Yes	
RWAST-2	10/31/2014	629.37	631.54	615.37	600.37	14.23	3.55	17.78	12.82	616.55	-2.08	16.94	Yes	
RWAST-2	4/15/2015	629.37	631.54	615.37	600.37	15.98	5.64	21.62	15.02	614.35	-2.20	15.19	No	
RWAST-2	4/22/2015	629.37	631.54	615.37	600.37	16.04	3.13	19.17	14.54	614.83	0.48	15.13	No	
RWAST-2	4/29/2015	629.37	631.54	615.37	600.37	15.26	2.07	17.33	13.53	615.84	1.01	15.91	Yes	
RWAST-2	5/6/2015	629.37	631.54	615.37	600.37	16.22	0.93	17.15	14.25	615.12	-0.72	14.95	No	
RWAST-2	5/12/2015	629.37	631.54	615.37	600.37	15.76	1.14	16.90	13.83	615.54	0.41	15.41	Yes	
RWAST-2	6/9/2015	629.37	631.54	615.37	600.37	14.60	0.25	14.85	12.48	616.89	1.35	16.57	Yes	
RWAST-2	7/10/2015	629.37	631.54	615.37	600.37	15.33	0.06	15.39	13.17	616.20	-0.69	15.84	Yes	
RWAST-2	7/13/2015	629.37	631.54	615.37	600.37	15.25	0.09	15.34	13.10	616.27	0.07	15.92	Yes	
RWAST-2	7/15/2015	629.37	631.54	615.37	600.37	15.42	0.03	15.45	13.26	616.11	-0.16	15.75	Yes	
RWAST-2	7/17/2015	629.37	631.54	615.37	600.37	15.35	0.04	15.39	13.19	616.18	0.07	15.82	Yes	
RWAST-2	7/18/2015	629.37	631.54	615.37	600.37	15.38	0.03	15.41	13.22	616.15	-0.03	15.79	Yes	
RWAST-2	7/21/2015	629.37	631.54	615.37	600.37	15.60	0.04	15.64	13.44	615.93	-0.22	15.57	Yes	
RWAST-2	7/22/2015	629.37	631.54	615.37	600.37	15.65	0.04	15.69	13.49	615.88	-0.05	15.52	Yes	
RWAST-2	7/23/2015	629.37	631.54	615.37	600.37	15.70	0.06	15.76	13.54	615.83	-0.05	15.47	Yes	
RWAST-2	7/25/2015	629.37	631.54	615.37	600.37	15.78	0.01	15.79	13.61	615.76	-0.07	15.39	Yes	
RWAST-2	7/27/2015	629.37	631.54	615.37	600.37	15.87	0.02	15.89	13.70	615.67	-0.09	15.30	Yes	
RWAST-2	7/24/2015	629.37	631.54	615.37	600.37	15.64	0.02	15.66	13.47	615.90	0.23	15.53	Yes	
RWAST-2	7/31/2015	629.37	631.54	615.37	600.37	16.01	0.01	16.02	13.84	615.53	-0.37	15.16	Yes	
RWAST-2	8/4/2015	629.37	631.54	615.37	600.37	16.16	0.01	16.17	13.99	615.38	-0.15	15.01	Yes	
RWAST-2	8/7/2015	629.37	631.54	615.37	600.37	16.13	0.01	16.14	13.96	615.41	0.03	15.04	Yes	
RWAST-2	8/12/2015	629.37	631.54	615.37	600.37	16.13	0.00	16.13	13.96	615.41	0.00	15.04	Yes	
RWAST-2	8/14/2015	629.37	631.54	615.37	600.37	16.18	0.00	16.18	14.01	615.36	-0.05	14.99	No	
RWAST-2	8/15/2015	629.37	631.54	615.37	600.37	16.18	0.03	16.21	14.02	615.35	-0.01	14.99	No	
RWAST-2	8/17/2015	629.37	631.54	615.37	600.37	16.26	0.01	16.27	14.09	615.28	-0.08	14.91	No	
RWAST-2	9/10/2015	629.37	631.54	615.37	600.37	NP	0.00	15.67	13.50	615.87	0.59	15.50	Yes	

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RWAST-2	9/14/2015	629.37	631.54	615.37	600.37	NP	0.00	15.73	13.56	615.81	-0.06	15.44	Yes	
RWAST-2	9/24/2015	629.37	631.54	615.37	600.37	NP	0.00	15.06	12.89	616.48	0.67	16.11	Yes	
RWAST-2	10/1/2015	629.37	631.54	615.37	600.37	NP	0.00	14.73	12.56	616.81	0.33	16.44	Yes	
RWAST-2	10/5/2015	629.37	631.54	615.37	600.37	NP	0.00	14.70	12.53	616.84	1.56	16.47	Yes	
RWAST-2	10/29/2015	629.37	631.54	615.37	600.37	NP	0.00	15.07	12.90	616.47	-0.37	16.10	Yes	
RWAST-2	11/3/2015	629.37	631.54	615.37	600.37	NP	0.00	14.90	12.73	616.64	0.17	16.27	Yes	
RWAST-2	4/21/2016	629.37	631.54	615.37	600.37	NP	0.00	12.26	10.09	619.28	2.64	18.91	Yes	
RWAST-2	4/27/2016	629.37	631.54	615.37	600.37	NP	0.00	11.31	9.14	620.23	0.95	19.86	Yes	
RWAST-2	5/18/2016	629.37	631.54	615.37	600.37	NP	0.00	12.19	10.02	619.35	-0.88	18.98	Yes	
RWAST-2	5/23/2016	629.37	631.54	615.37	600.37	NP	0.00	12.35	10.18	619.19	-0.16	18.82	Yes	
RWAST-2	5/31/2016	629.37	631.54	615.37	600.37	NP	0.00	12.41	10.24	619.13	-0.06	18.76	Yes	
RWAST-2	6/14/2016	629.37	631.54	615.37	600.37	NP	0.00	12.21	10.04	619.33	0.20	18.96	Yes	
RWAST-2	6/21/2016	629.37	631.54	615.37	600.37	NP	0.00	11.76	9.59	619.78	0.45	19.41	Yes	
RWAST-2	7/21/2016	629.37	631.54	615.37	600.37	NP	0.00	12.50	10.33	619.04	-0.74	18.67	Yes	
RWAST-2	7/25/2016	629.37	631.54	615.37	600.37	NP	0.00	12.94	10.77	618.60	-0.44	18.23	Yes	
RWAST-2	9/2/2016	629.37	631.54	615.37	600.37	NP	0.00	14.28	12.11	617.26	-1.34	16.89	Yes	
RWAST-2	10/3/2016	629.37	631.54	615.37	600.37	NP	0.00	14.42	12.25	617.12	-0.14	16.75	Yes	
RWAST-2	10/13/2016	629.37	631.54	615.37	600.37	NP	0.00	14.68	12.51	616.86	-0.26	16.49	Yes	
RWAST-2	5/18/2017	629.37	631.54	615.37	600.37	NP	0.00	12.63	10.46	618.91	2.05	18.54	Yes	
RWAST-2	5/31/2017	629.37	631.54	615.37	600.37	NP	0.00	11.11	8.94	620.43	1.52	20.06	Yes	
RWAST-2	5/14/2018	629.37	631.54	615.37	600.37	NP	0.00	15.02	12.85	616.52	-3.91	16.15	Yes	
RWAST-2	5/30/2018	629.37	631.54	615.37	600.37	NP	0.00	14.80	12.63	616.74	0.22	16.37	Yes	
RWAST-2	6/18/2018	629.37	631.54	615.37	600.37	NP	0.00	13.12	10.95	618.42	1.68	18.05	Yes	
RWAST-2	6/27/2018	629.37	631.54	615.37	600.37	NP	0.00	13.34	11.17	618.20	-0.22	17.83	Yes	
RW-08	09/10/15	631.12	630.82	621.12	601.12	NP	0.00	14.93	15.23	615.89	NA	14.77	No	
RW-08	09/14/15	631.12	630.82	621.12	601.12	NP	0.00	14.79	15.09	616.03	0.14	14.91	No	
RW-08	10/01/15	631.12	630.82	621.12	601.12	NP	0.00	14.01	14.31	616.81	0.78	15.69	No	
RW-08	10/05/15	631.12	630.82	621.12	601.12	NP	0.00	13.88	14.18	616.94	0.13	15.82	No	
RW-08	04/11/16	631.12	630.82	621.12	601.12	NP	0.00	12.29	12.59	618.53	1.59	17.41	No	
RW-08	05/23/16	631.12	630.82	621.12	601.12	NP	0.00	11.74	12.04	619.08	0.55	17.96	No	
RW-08	10/03/16	631.12	630.82	621.12	601.12	13.43	0.09	13.52	13.75	617.37	-1.71	16.27	No	
RW-08	05/02/17	631.12	630.82	621.12	601.12	NP	0.00	12.71	13.01	618.11	0.74	16.99	No	
RW-08	05/18/17	631.12	630.82	621.12	601.12	NP	0.00	12.33	12.63	618.49	0.38	17.37	No	
RW-08	05/22/17	631.12	630.82	621.12	601.12	10.45	0.51	10.96	10.87	620.25	1.76	19.25	No	
RW-08	05/25/17	631.12	630.82	621.12	601.12	NP	0.00	10.75	11.05	620.07	-0.18	18.95	No	
RW-08	05/31/17	631.12	630.82	621.12	601.12	NP	0.00	10.73	11.03	620.09	0.02	18.97	No	
RW-08	08/30/17	631.12	630.82	621.12	601.12	NP	0.00	10.10	10.40	620.72	0.63	19.60	No	
RW-08	09/19/17	631.12	630.82	621.12	601.12	11.51	0.02	11.53	11.81	619.31	-1.41	18.19	No	
RW-08	05/14/18	631.12	630.82	621.12	601.12	14.56	0.08	14.64	14.88	616.24	-3.06	15.14	No	

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RW-08	05/23/18	631.12	630.82	621.12	601.12	14.62	0.08	14.70	14.94	616.18	-0.06	15.08	No	
RW-08	05/30/18	631.12	630.82	621.12	601.12	14.27	0.04	14.31	14.58	616.54	0.36	15.43	No	
RW-08	07/03/18	631.12	630.82	621.12	601.12	13.18	0.02	13.20	13.48	617.64	1.09	16.52	No	
RW-08	08/08/18	631.12	630.82	621.12	601.12	14.16	0.04	14.20	14.47	616.65	-0.98	15.54	No	
RW-08	08/16/18	631.12	630.82	621.12	601.12	14.45	0.10	14.55	14.77	616.35	-0.30	15.25	No	
RW-08	10/02/18	631.12	630.82	621.12	601.12	14.17	0.01	14.18	14.47	616.65	0.30	15.53	No	
RW-08	10/16/18	631.12	630.82	621.12	601.12	NP	0.00	12.95	13.25	617.87	1.22	16.75	No	
RW-08	10/22/18	631.12	630.82	621.12	601.12	NP	0.00	12.99	13.29	617.83	-0.04	16.71	No	
RW-08	10/29/18	631.12	630.82	621.12	601.12	13.12	0.01	13.13	13.42	617.70	-0.13	16.58	No	
RW-09	09/10/15	631.17	631.02	621.17	601.17	NP	0.00	15.28	15.43	615.74	NA	14.57	No	
RW-09	09/14/15	631.17	631.02	621.17	601.17	NP	0.00	15.18	15.33	615.84	0.10	14.67	No	
RW-09	10/01/15	631.17	631.02	621.17	601.17	NP	0.00	14.40	14.55	616.62	0.78	15.45	No	
RW-09	10/05/15	631.17	631.02	621.17	601.17	NP	0.00	14.30	14.45	616.72	0.10	15.55	No	
RW-09	04/11/16	631.17	631.02	621.17	601.17	13.66	1.66	15.32	14.18	616.99	0.27	16.19	No	
RW-09	05/23/16	631.17	631.02	621.17	601.17	11.15	5.13	16.28	12.46	618.71	1.73	18.70	No	
RW-09	07/15/16	631.17	631.02	621.17	601.17	11.94	0.24	12.18	12.14	619.03	0.31	17.91	No	
RW-09	07/21/16	631.17	631.02	621.17	601.17	11.97	0.30	12.27	12.19	618.98	-0.04	17.88	No	
RW-09	07/25/16	631.17	631.02	621.17	601.17	12.18	0.44	12.62	12.43	618.74	-0.24	17.67	No	
RW-09	08/01/16	631.17	631.02	621.17	601.17	12.63	1.22	13.85	13.06	618.11	-0.63	17.22	No	
RW-09	08/09/16	631.17	631.02	621.17	601.17	12.79	1.36	14.15	13.25	617.92	-0.19	17.06	No	
RW-09	08/18/16	631.17	631.02	621.17	601.17	13.23	0.16	13.39	13.42	617.75	-0.17	16.62	No	
RW-09	08/29/16	631.17	631.02	621.17	601.17	13.59	0.35	13.94	13.82	617.35	-0.40	16.26	No	
RW-09	09/02/16	631.17	631.02	621.17	601.17	13.76	0.02	13.78	13.91	617.26	-0.10	16.09	No	
RW-09	09/20/16	631.17	631.02	621.17	601.17	13.26	0.74	14.00	13.58	617.59	0.34	16.59	No	
RW-09	10/03/16	631.17	631.02	621.17	601.17	13.60	0.94	14.54	13.96	617.21	-0.39	16.25	No	
RW-09	10/06/16	631.17	631.02	621.17	601.17	13.80	1.01	14.81	14.18	616.99	-0.22	16.05	No	
RW-09	10/13/16	631.17	631.02	621.17	601.17	13.86	1.03	14.89	14.24	616.93	-0.06	15.99	No	
RW-09	05/02/17	631.17	631.02	621.17	601.17	12.94	0.70	13.64	13.25	617.92	0.99	16.91	No	
RW-09	05/18/17	631.17	631.02	621.17	601.17	12.39	0.29	12.68	12.61	618.56	0.64	17.46	No	
RW-09	05/22/17	631.17	631.02	621.17	601.17	NP	0.00	10.96	11.11	620.06	1.50	18.89	No	
RW-09	05/25/17	631.17	631.02	621.17	601.17	10.81	0.26	11.07	11.02	620.15	0.09	19.04	No	
RW-09	05/31/17	631.17	631.02	621.17	601.17	10.81	0.24	11.05	11.01	620.16	0.00	19.04	No	
RW-09	08/30/17	631.17	631.02	621.17	601.17	10.20	0.30	10.50	10.42	620.75	0.60	19.65	No	
RW-09	09/19/17	631.17	631.02	621.17	601.17	11.71	0.32	12.03	11.93	619.24	-1.51	18.14	No	
RW-09	05/14/18	631.17	631.02	621.17	601.17	14.72	0.48	15.20	14.98	616.19	-3.05	15.13	No	
RW-09	05/23/18	631.17	631.02	621.17	601.17	14.85	0.48	15.33	15.11	616.06	-0.13	15.00	No	
RW-09	05/24/18	631.17	631.02	621.17	601.17	14.85	0.40	15.25	15.09	616.08	0.02	15.00	No	
RW-09	05/30/18	631.17	631.02	621.17	601.17	14.49	0.37	14.86	14.72	616.45	0.37	15.36	No	
RW-09	07/03/18	631.17	631.02	621.17	601.17	13.43	0.15	13.58	13.61	617.56	1.11	16.42	No	
RW-09	08/08/18	631.17	631.02	621.17	601.17	14.42	0.14	14.56	14.60	616.57	-0.99	15.43	No	

Table 4
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)	Comment
RW-09	08/16/18	631.17	631.02	621.17	601.17	14.71	0.18	14.89	14.90	616.27	-0.30	15.14	No	
RW-09	10/02/18	631.17	631.02	621.17	601.17	14.44	0.06	14.50	14.60	616.57	0.30	15.41	No	
RW-09	10/16/18	631.17	631.02	621.17	601.17	13.18	0.01	13.19	13.33	617.84	1.27	16.67	No	
RW-09	10/22/18	631.17	631.02	621.17	601.17	NP	0.00	13.21	13.36	617.81	-0.03	16.64	No	
RW-09	10/29/18	631.17	631.02	621.17	601.17	13.35	0.02	13.37	13.50	617.67	-0.14	16.50	No	
MRW-1	2/19/2003	626.10	630.41	610.10	605.10	17.39	0.13	17.52	13.11	612.99	NA	7.92	Yes	
MRW-1	3/13/2003	626.10	630.41	610.10	605.10	17.72	0.11	17.83	13.43	612.67	-0.33	7.59	Yes	
MRW-1	4/9/2003	626.10	630.41	610.10	605.10	17.55	0.02	17.57	13.24	612.86	0.19	7.76	Yes	
MRW-1	4/18/2003	626.10	630.41	610.10	605.10	17.55	0.04	17.59	13.25	612.85	0.00	7.76	Yes	
MRW-1	4/25/2003	626.10	630.41	610.10	605.10	17.1	0.04	17.14	12.80	613.30	0.45	8.21	Yes	
MRW-1	5/15/2003	626.10	630.41	610.10	605.10	16.45	0.20	16.65	12.18	613.92	0.62	8.86	Yes	
MRW-1	6/10/2003	626.10	630.41	610.10	605.10	16.11	0.18	16.29	11.84	614.26	0.34	9.20	Yes	
MRW-1	7/2/2003	626.10	630.41	610.10	605.10	15.74	0.42	16.16	11.52	614.58	0.32	9.57	Yes	
MRW-1	7/7/2003	626.10	630.41	610.10	605.10	15.65	0.70	16.35	11.49	614.61	0.03	9.66	Yes	
MRW-1	7/30/2003	626.10	630.41	610.10	605.10	15.73	0.70	16.43	11.57	614.53	-0.08	9.58	Yes	
MRW-1	8/12/2003	626.10	630.41	610.10	605.10	16.24	0.98	17.22	12.14	613.96	-0.57	9.07	Yes	
MRW-1	9/8/2003	626.10	630.41	610.10	605.10	16.1	4.80	20.90	12.82	613.28	-0.68	9.21	Yes	
MRW-1	10/2/2003	626.10	630.41	610.10	605.10	16.97	0.15	17.12	12.69	613.41	0.13	8.34	Yes	
MRW-1	10/20/2003	626.10	630.41	610.10	605.10	17.02	0.13	17.15	12.74	613.36	-0.05	8.29	Yes	
MRW-1	12/3/2003	626.10	630.41	610.10	605.10	17.54	0.04	17.58	13.24	612.86	-0.50	7.77	Yes	
MRW-1	1/8/2004	626.10	630.41	610.10	605.10	17.93	0.48	18.41	13.72	612.38	-0.48	7.38	Yes	
MRW-1	1/20/2004	626.10	630.41	610.10	605.10	18.05	0.28	18.33	13.80	612.30	-0.08	7.26	Yes	
MRW-1	2/24/2004	626.10	630.41	610.10	605.10	18.42	0.02	18.44	14.11	611.99	-0.31	6.89	Yes	
MRW-1	3/22/2004	626.10	630.41	610.10	605.10	18.04	0.05	18.09	13.74	612.36	0.37	7.27	Yes	
MRW-1	4/19/2004	626.10	630.41	610.10	605.10	16.9	0.12	17.02	12.62	613.48	1.12	8.41	Yes	
MRW-1	5/18/2004	626.10	630.41	610.10	605.10	16.27	0.09	16.36	11.98	614.12	0.64	9.04	Yes	
MRW-1	6/17/2004	626.10	630.41	610.10	605.10	15.4	0.10	15.50	11.11	614.99	0.87	9.91	Yes	
MRW-1	6/28/2004	626.10	630.41	610.10	605.10	15.96	0.03	15.99	11.66	614.44	-0.54	9.35	Yes	
MRW-1	7/27/2004	626.10	630.41	610.10	605.10	15.98	0.07	16.05	11.69	614.41	-0.03	9.33	Yes	
MRW-1	8/24/2004	626.10	630.41	610.10	605.10	16.03	0.84	16.87	11.90	614.20	-0.22	9.28	Yes	
MRW-1	9/8/2004	626.10	630.41	610.10	605.10	15.9	0.61	16.51	11.72	614.38	0.18	9.41	Yes	
MRW-1	9/9/2004	626.10	630.41	610.10	605.10	15.87	0.24	16.11	11.61	614.49	0.11	9.44	Yes	
MRW-1	9/28/2004	626.10	630.41	610.10	605.10	15.14	0.26	15.40	10.89	615.21	0.73	10.17	Yes	
MRW-1	10/20/2004	626.10	630.41	610.10	605.10	15.58	0.01	15.59	11.27	614.83	-0.39	9.73	Yes	
MRW-1	11/23/2004	626.10	630.41	610.10	605.10	15.04	0.71	15.75	10.88	615.22	0.39	10.27	Yes	
MRW-1	1/5/2005	626.10	630.41	610.10	605.10	15.94	0.74	16.68	11.79	614.31	-0.91	9.37	Yes	
MRW-1	2/26/2005	626.10	630.41	610.10	605.10	16.76	0.16	16.92	12.48	613.62	-0.70	8.55	Yes	
MRW-1	3/29/2005	626.10	630.41	610.10	605.10	NP	0.00							
MRW-1	4/29/2005	626.10	630.41	610.10	605.10	14.87	0.40	15.27	10.65	615.45	1.84	10.44	Yes	
MRW-1	5/31/2005	626.10	630.41	610.10	605.10	14.22	0.34	14.56	9.98	616.12	0.66	11.09	Yes	

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MRW-1	6/28/2005	626.10	630.41	610.10	605.10	13.63	0.38	14.01	9.40	616.70	0.58	11.68	Yes	
MRW-1	7/28/2005	626.10	630.41	610.10	605.10	14.88	0.44	15.32	10.66	615.44	-1.26	10.43	Yes	
MRW-1	8/11/2005	626.10	630.41	610.10	605.10	15.39	0.12	15.51	11.11	614.99	-0.44	9.92	Yes	
MRW-1	9/1/2005	626.10	630.41	610.10	605.10	16.12	0.26	16.38	11.87	614.23	-0.76	9.19	Yes	
MRW-1	9/16/2005	626.10	630.41	610.10	605.10	16.23	0.19	16.42	11.96	614.14	-0.09	9.08	Yes	
MRW-1	10/6/2005	626.10	630.41	610.10	605.10	14.63	0.21	14.84	10.37	615.73	1.60	10.68	Yes	
MRW-1	10/24/2005	626.10	630.41	610.10	605.10	14.61	0.18	14.79	10.34	615.76	0.03	10.70	Yes	
MRW-1	11/23/2005	626.10	630.41	610.10	605.10	13.99	0.12	14.11	9.71	616.39	0.63	11.32	Yes	
MRW-1	12/14/2005	626.10	630.41	610.10	605.10	14.37	0.17	14.54	10.10	616.00	-0.39	10.94	Yes	
MRW-1	1/5/2006	626.10	630.41	610.10	605.10	15.05	0.93	15.98	10.94	615.16	-0.84	10.26	Yes	
MRW-1	1/19/2006	626.10	630.41	610.10	605.10	14.75	1.50	16.25	10.76	615.34	0.18	10.56	Yes	
MRW-1	1/30/2006	626.10	630.41	610.10	605.10	14.51	3.46	17.97	10.94	615.16	-0.18	10.80	Yes	
MRW-1	1/31/2006	626.10	630.41	610.10	605.10	14.4	3.57	17.97	10.86	615.24	0.09	10.91	Yes	
MRW-1	2/3/2006	626.10	630.41	610.10	605.10	15.26	0.27	15.53	11.01	615.09	-0.15	10.05	Yes	
MRW-1	2/9/2006	626.10	630.41	610.10	605.10	15.22	0.22	15.44	10.96	615.14	0.05	10.09	Yes	
MRW-1	2/16/2006	626.10	630.41	610.10	605.10	15.69	0.16	15.85	11.41	614.69	-0.46	9.62	Yes	
MRW-1	2/28/2006	626.10	630.41	610.10	605.10	15.92	0.38	16.30	11.69	614.41	-0.28	9.39	Yes	
MRW-1	3/16/2006	626.10	630.41	610.10	605.10	15.86	0.47	16.33	11.65	614.45	0.04	9.45	Yes	
MRW-1	3/27/2006	626.10	630.41	610.10	605.10	15.37	0.33	15.70	11.13	614.97	0.52	9.94	Yes	
MRW-1	4/14/2006	626.10	630.41	610.10	605.10	14.48	0.39	14.87	10.25	615.85	0.88	10.83	Yes	
MRW-1	5/6/2006	626.10	630.41	610.10	605.10	14.4	0.32	14.72	10.16	615.94	0.10	10.91	Yes	
MRW-1	6/1/2006	626.10	630.41	610.10	605.10	13.64	0.36	14.00	9.41	616.69	0.75	11.67	Yes	
MRW-1	6/29/2006	626.10	630.41	610.10	605.10	14.9	0.49	15.39	10.70	615.40	-1.29	10.41	Yes	
MRW-1	7/17/2006	626.10	630.41	610.10	605.10	15.77	0.36	16.13	11.54	614.56	-0.84	9.54	Yes	
MRW-1	8/24/2006	626.10	630.41	610.10	605.10	16.13	0.16	16.29	11.85	614.25	-0.32	9.18	Yes	
MRW-1	9/1/2006	626.10	630.41	610.10	605.10	16.12	0.26	16.38	11.87	614.23	-0.01	9.19	Yes	
MRW-1	9/14/2006	626.10	630.41	610.10	605.10	NP	0.00	16.77	12.46	613.64	-0.59	8.54	Yes	
MRW-1	9/16/2006	626.10	630.41	610.10	605.10	16.23	0.19	16.42	11.96	614.14	0.50	9.08	Yes	
MRW-1	9/28/2006	626.10	630.41	610.10	605.10	16.44	0.24	16.68	12.18	613.92	-0.22	8.87	Yes	
MRW-1	11/2/2006	626.10	630.41	610.10	605.10	16.63	0.29	16.92	12.38	613.72	-0.20	8.68	Yes	
MRW-1	11/21/2006	626.10	630.41	610.10	605.10	16.58	0.17	16.75	12.31	613.79	0.08	8.73	Yes	
MRW-1	12/14/2006	626.10	630.41	610.10	605.10	16.46	0.36	16.82	12.23	613.87	0.08	8.85	Yes	
MRW-1	12/28/2006	626.10	630.41	610.10	605.10	16.89	1.12	18.01	12.82	613.28	-0.59	8.42	Yes	
MRW-1	1/4/2007	626.10	630.41	610.10	605.10	16.15	0.70	16.85	11.99	614.11	0.83	9.16	Yes	
MRW-1	1/18/2007	626.10	630.41	610.10	605.10	16.74	0.24	16.98	12.48	613.62	-0.49	8.57	Yes	
MRW-1	2/1/2007	626.10	630.41	610.10	605.10	17.22	0.20	17.42	12.95	613.15	-0.47	8.09	Yes	
MRW-1	2/22/2007	626.10	630.41	610.10	605.10	17.84	0.26	18.10	13.59	612.51	-0.63	7.47	Yes	
MRW-1	3/15/2007	626.10	630.41	610.10	605.10	17.64	0.21	17.85	13.38	612.72	0.21	7.67	Yes	
MRW-1	3/29/2007	626.10	630.41	610.10	605.10	17.07	0.25	17.32	12.81	613.29	0.56	8.24	Yes	
MRW-1	4/13/2007	626.10	630.41	610.10	605.10	16.35	0.23	16.58	12.09	614.01	0.72	8.96	Yes	
MRW-1	4/29/2007	626.10	630.41	610.10	605.10	15.59	0.31	15.90	11.35	614.75	0.74	9.72	Yes	

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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)	Comment
MRW-1	5/10/2007	626.10	630.41	610.10	605.10	15.7	0.28	15.98	11.45	614.65	-0.10	9.61	Yes	
MRW-1	11/21/2012	626.10	630.41	610.10	605.10	16.97	0.18	17.15	12.70	613.40	-1.25	8.34	Yes	Pump currently Shut Down
MRW-1	12/17/2012	626.10	630.41	610.10	605.10	17.15	0.21	17.36	12.89	613.21	-0.19	8.16	Yes	Pump currently Shut Down
Well connected to Barge Dock Skimmer system														
MRW-1	3/25/2013	626.10	630.41	610.10	605.10	18.24	0.15	18.39	13.96	612.14	-1.08	7.07	Yes	
MRW-1	5/6/2013	626.10	630.41	610.10	605.10	15.73	0.13	15.86	11.45	614.65	2.51	9.58	Yes	
MRW-1	5/5/2014	626.10	630.41	610.10	605.10	13.2	0.15	13.35	8.92	617.18	2.53	12.11	Yes	
MRW-1	7/14/2014	626.10	630.41	610.10	605.10	13.48	0.17	13.65	9.21	616.89	-0.28	11.83	Yes	
MRW-1	7/18/2014	626.10	630.41	610.10	605.10	13.75	0.13	13.88	9.47	616.63	-0.26	11.56	Yes	
MRW-1	7/23/2014	626.10	630.41	610.10	605.10	14.14	0.13	14.27	9.86	616.24	-0.39	11.17	Yes	
MRW-1	9/4/2014	626.10	630.41	610.10	605.10	12.56	0.34	12.90	8.32	617.78	1.53	12.75	Yes	
MRW-1	2/19/2015	626.10	630.41	610.10	605.10	16.47	0.20	16.67	12.20	613.90	-3.88	8.84	Yes	
MRW-1	4/13/2015	626.10	630.41	610.10	605.10	16.7	0.24	16.94	12.44	613.66	-0.24	8.61	Yes	
MRW-1	4/17/2015	626.10	630.41	610.10	605.10	16.4	0.15	16.55	12.12	613.98	0.32	8.91	Yes	
MRW-1	4/24/2015	626.10	630.41	610.10	605.10	15.89	0.14	16.03	11.61	614.49	0.51	9.42	Yes	
MRW-1	4/28/2015	626.10	630.41	610.10	605.10	15.72	0.14	15.86	11.44	614.66	0.17	9.59	Yes	
MRW-1	4/13/2015	626.10	630.41	610.10	605.10	16.7	0.24	16.94	12.44	613.66	-1.00	8.61	Yes	
MRW-1	4/17/2015	626.10	630.41	610.10	605.10	16.4	0.15	16.55	12.12	613.98	0.32	8.91	Yes	
MRW-1	4/22/2015	626.10	630.41	610.10	605.10	15.99	0.12	16.11	11.71	614.39	0.42	9.32	Yes	
MRW-1	4/28/2015	626.10	630.41	610.10	605.10	15.72	0.14	15.86	11.44	614.66	0.27	9.59	Yes	
MRW-1	5/5/2015	Pulled and removed pumps - system shut down - moved to bailing wells												
MRW-1	5/9/2015	626.10	630.41	610.10	605.10	15.63	0.12	15.75	11.35	614.75	0.09	9.68	Yes	Bailed 1 Cup
MRW-1	5/12/2015	626.10	630.41	610.10	605.10	15.13	0.13	15.26	10.85	615.25	0.50	10.18	Yes	
MRW-1	5/15/2015	626.10	630.41	610.10	605.10	14.54	0.11	14.65	10.25	615.85	0.59	10.77	Yes	Bailed <0.25 gallons
MRW-1	5/22/2015	626.10	630.41	610.10	605.10	14.1	0.14	14.24	9.82	616.28	0.43	11.21	Yes	Bailed <0.25 gallons
MRW-1	5/28/2015	626.10	630.41	610.10	605.10	13.86	0.12	13.98	9.58	616.52	0.24	11.45	Yes	Bailed <0.25 gallons
MRW-1	6/5/2015	626.10	630.41	610.10	605.10	14.16	0.16	14.32	9.88	616.22	-0.31	11.15	Yes	Bailed <0.25 gallons
MRW-1	6/9/2015	626.10	630.41	610.10	605.10	14.01	0.13	14.14	9.73	616.37	0.16	11.30	Yes	Bailed <0.25 gallons
MRW-1	6/13/2015	626.10	630.41	610.10	605.10	14.45	0.11	14.56	10.16	615.94	-0.44	10.86	Yes	Bailed <0.25 gallons (trace)
MRW-1	6/19/2015	626.10	630.41	610.10	605.10	14.81	0.12	14.93	10.53	615.57	-0.36	10.50	Yes	Bailed a trace amount of LNAPL
MRW-1	6/25/2015	626.10	630.41	610.10	605.10	14.75	0.11	14.86	10.46	615.64	0.06	10.56	Yes	Bailed a trace amount of LNAPL
MRW-1	7/2/2015	626.10	630.41	610.10	605.10	14.98	0.08	15.06	10.69	615.41	-0.22	10.33	Yes	Bailed a trace amount of LNAPL
MRW-1	7/7/2015	626.10	630.41	610.10	605.10	14.71	0.10	14.81	10.42	615.68	0.27	10.60	Yes	No LNAPL bailed
MRW-1	7/13/2015	626.10	630.41	610.10	605.10	14.56	0.10	14.66	10.27	615.83	0.15	10.75	Yes	No LNAPL bailed
MRW-1	7/21/2015	626.10	630.41	610.10	605.10	15.12	0.10	15.22	10.83	615.27	-0.56	10.19	Yes	
MRW-1	7/27/2015	626.10	630.41	610.10	605.10	15.53	0.09	15.62	11.24	614.86	-0.41	9.78	Yes	
MRW-1	7/31/2015	626.10	630.41	610.10	605.10	15.72	0.09	15.81	11.43	614.67	-0.19	9.59	Yes	
MRW-1	8/7/2015	626.10	630.41	610.10	605.10	15.68	0.09	15.77	11.39	614.71	0.04	9.63	Yes	
MRW-1	8/14/2015	626.10	630.41	610.10	605.10	15.71	0.08	15.79	11.42	614.68	-0.03	9.60	Yes	
MRW-1	8/24/2015	626.10	630.41	610.10	605.10	15.21	0.09	15.30	10.92	615.18	0.50	10.10	Yes	
MRW-1	9/10/2015	626.10	630.41	610.10	605.10	14.86	0.10	14.96	10.57	615.53	0.35	10.45	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)	Comment
MRW-1	9/24/2015	626.10	630.41	610.10	605.10	14.15	0.09	14.24	9.86	616.24	0.71	11.16	Yes	
MRW-1	10/1/2015	626.10	630.41	610.10	605.10	13.96	0.10	14.06	9.67	616.43	0.19	11.35	Yes	
MRW-1	10/29/2015	626.10	630.41	610.10	605.10	14.34	0.10	14.44	10.05	616.05	0.52	10.97	Yes	
MRW-1	11/3/2015	626.10	630.41	610.10	605.10	14.21	0.12	14.33	9.93	616.17	0.13	11.10	Yes	
MRW-1	10/3/2016	626.10	630.41	610.10	605.10	14.06	0.09	14.15	9.77	616.33	0.16	11.25	Yes	
MRW-1	5/2/2017	626.10	630.41	610.10	605.10	12.44	0.11	12.55	8.15	617.95	1.62	12.87	Yes	
MRW-1	5/22/2017	626.10	630.41	610.10	605.10	11.13	0.06	11.19	6.83	619.27	1.32	14.18	Yes	
MRW-1	5/31/2017	626.10	630.41	610.10	605.10	11.21	0.07	11.28	6.92	619.18	-0.08	14.10	Yes	
MRW-1	5/2/2017	626.10	630.41	610.10	605.10	12.44	0.11	12.55	8.15	617.95	-1.24	12.87	Yes	
MRW-1	5/22/2017	626.10	630.41	610.10	605.10	11.13	0.06	11.19	6.83	619.27	1.32	14.18	Yes	
MRW-1	5/31/2017	626.10	630.41	610.10	605.10	11.21	0.07	11.28	6.92	619.18	-0.08	14.10	Yes	
MRW-1	8/8/2017	626.10	630.41	610.10	605.10	13.03	0.08	13.11	8.74	617.36	-1.82	12.28	Yes	
MRW-1	8/15/2017	626.10	630.41	610.10	605.10	12.26	0.07	12.33	7.97	618.13	0.77	13.05	Yes	
MRW-1	5/14/2018	626.10	630.41	610.10	605.10	14.44	0.06	14.50	10.14	615.96	-2.18	10.87	Yes	
MRW-2	2/19/2003	627.00	630.85	610.00	605.00	NP	0.00	17.38	13.53	613.47	NA	8.47	Yes	
MRW-2	3/13/2003	627.00	630.85	610.00	605.00	NP	0.00	17.71	13.86	613.14	-0.33	8.14	Yes	
MRW-2	4/9/2003	627.00	630.85	610.00	605.00	17.45	0.37	17.82	13.68	613.32	0.18	8.40	Yes	
MRW-2	4/18/2003	627.00	630.85	610.00	605.00	17.4	0.50	17.90	13.66	613.34	0.02	8.45	Yes	
MRW-2	4/25/2003	627.00	630.85	610.00	605.00	16.97	0.91	17.88	13.32	613.68	0.34	8.88	Yes	
MRW-2	5/15/2003	627.00	630.85	610.00	605.00	16.56	0.24	16.80	12.76	614.24	0.55	9.29	Yes	
MRW-2	6/10/2003	627.00	630.85	610.00	605.00	16.18	0.07	16.25	12.35	614.65	0.42	9.67	Yes	
MRW-2	7/2/2003	627.00	630.85	610.00	605.00	15.87	0.18	16.05	12.06	614.94	0.29	9.98	Yes	
MRW-2	7/7/2003	627.00	630.85	610.00	605.00	15.88	0.15	16.03	12.06	614.94	0.00	9.97	Yes	
MRW-2	7/30/2003	627.00	630.85	610.00	605.00	15.87	0.41	16.28	12.11	614.89	-0.05	9.98	Yes	
MRW-2	8/12/2003	627.00	630.85	610.00	605.00	16.21	1.09	17.30	12.59	614.41	-0.49	9.64	Yes	
MRW-2	9/8/2003	627.00	630.85	610.00	605.00	16.57	2.51	19.08	13.26	613.74	-0.67	9.28	Yes	
MRW-2	10/2/2003	627.00	630.85	610.00	605.00	17.04	0.51	17.55	13.30	613.70	-0.04	8.81	Yes	
MRW-2	10/20/2003	627.00	630.85	610.00	605.00	17.16	0.25	17.41	13.36	613.64	-0.06	8.69	Yes	
MRW-2	12/3/2003	627.00	630.85	610.00	605.00	17.24	1.12	18.36	13.63	613.37	-0.27	8.61	Yes	
MRW-2	1/8/2004	627.00	630.85	610.00	605.00	17.31	3.02	20.33	14.11	612.89	-0.48	8.54	Yes	
MRW-2	1/20/2004	627.00	630.85	610.00	605.00	17.67	1.70	19.37	14.19	612.81	-0.08	8.18	Yes	
MRW-2	2/24/2004	627.00	630.85	610.00	605.00	18.16	1.22	19.38	14.57	612.43	-0.39	7.69	Yes	
MRW-2	3/22/2004	627.00	630.85	610.00	605.00	17.94	0.72	18.66	14.24	612.76	0.33	7.91	Yes	
MRW-2	4/19/2004	627.00	630.85	610.00	605.00	16.77	1.38	18.15	13.22	613.78	1.03	9.08	Yes	
MRW-2	5/18/2004	627.00	630.85	610.00	605.00	16.39	0.41	16.80	12.63	614.37	0.59	9.46	Yes	
MRW-2	6/17/2004	627.00	630.85	610.00	605.00	15.18	1.38	16.56	11.63	615.37	1.00	10.67	Yes	
MRW-2	6/28/2004	627.00	630.85	610.00	605.00	15.91	0.60	16.51	12.19	614.81	-0.56	9.94	Yes	
MRW-2	7/27/2004	627.00	630.85	610.00	605.00	15.72	1.16	16.88	12.12	614.88	0.07	10.13	Yes	
MRW-2	8/24/2004	627.00	630.85	610.00	605.00	16.14	0.42	16.56	12.38	614.62	-0.26	9.71	Yes	
MRW-2	9/8/2004	627.00	630.85	610.00	605.00	15.99	0.45	16.44	12.24	614.76	0.14	9.86	Yes	

Table 4
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)	Comment
MRW-2	9/9/2004	627.00	630.85	610.00	605.00	15.95	0.23	16.18	12.15	614.85	0.09	9.90	Yes	
MRW-2	9/28/2004	627.00	630.85	610.00	605.00	15.17	0.51	15.68	11.43	615.57	0.72	10.68	Yes	
MRW-2	10/20/2004	627.00	630.85	610.00	605.00	15.61	0.02	15.63	11.76	615.24	-0.33	10.24	Yes	
MRW-2	11/23/2004	627.00	630.85	610.00	605.00	14.88	0.88	15.76	11.22	615.78	0.55	10.97	Yes	
MRW-2	1/5/2005	627.00	630.85	610.00	605.00	15.89	1.03	16.92	12.26	614.74	-1.04	9.96	Yes	
MRW-2	2/26/2005	627.00	630.85	610.00	605.00	17.64	0.24	17.88	13.84	613.16	-1.58	8.21	Yes	
MRW-2	3/29/2005	627.00	630.85	610.00	605.00	NP	0.00	NP						
MRW-2	4/29/2005	627.00	630.85	610.00	605.00	15.92		NP						
MRW-2	5/31/2005	627.00	630.85	610.00	605.00	14.28	0.06	14.34	10.44	616.56	3.40	11.57	Yes	
MRW-2	6/28/2005	627.00	630.85	610.00	605.00	13.66	0.16	13.82	9.84	617.16	0.60	12.19	Yes	
MRW-2	7/28/2005	627.00	630.85	610.00	605.00	14.94	0.14	15.08	11.12	615.88	-1.28	10.91	Yes	
MRW-2	8/11/2005	627.00	630.85	610.00	605.00	15.39	0.04	15.43	11.55	615.45	-0.43	10.46	Yes	
MRW-2	9/1/2005	627.00	630.85	610.00	605.00	16.12	0.06	16.18	12.28	614.72	-0.73	9.73	Yes	
MRW-2	9/16/2005	627.00	630.85	610.00	605.00	16.21		-						
MRW-2	10/6/2005	627.00	630.85	610.00	605.00	14.76	0.07	14.83	10.93	616.07	1.36	11.09	Yes	
MRW-2	10/24/2005	627.00	630.85	610.00	605.00	14.62	0.06	14.68	10.78	616.22	0.14	11.23	Yes	
MRW-2	11/23/2005	627.00	630.85	610.00	605.00	14	0.08	14.08	10.17	616.83	0.62	11.85	Yes	
MRW-2	12/14/2005	627.00	630.85	610.00	605.00	14.34	0.07	14.41	10.51	616.49	-0.34	11.51	Yes	
MRW-2	1/5/2006	627.00	630.85	610.00	605.00	NP	0.00	15.29	11.44	615.56	-0.93	10.56	Yes	
MRW-2	1/19/2006	627.00	630.85	610.00	605.00	14.26	0.06	14.32	10.42	616.58	1.02	11.59	Yes	
MRW-2	1/30/2006	627.00	630.85	610.00	605.00	15.28	0.05	15.33	11.44	615.56	-1.02	10.57	Yes	
MRW-2	2/3/2006	627.00	630.85	610.00	605.00	15.32	0.07	15.39	11.49	615.51	-0.04	10.53	Yes	
MRW-2	2/9/2006	627.00	630.85	610.00	605.00	15.2	0.05	15.25	11.36	615.64	0.12	10.65	Yes	
MRW-2	2/16/2006	627.00	630.85	610.00	605.00	15.62	0.04	15.66	11.78	615.22	-0.42	10.23	Yes	
MRW-2	2/28/2006	627.00	630.85	610.00	605.00	15.93	0.11	16.04	12.10	614.90	-0.33	9.92	Yes	
MRW-2	3/16/2006	627.00	630.85	610.00	605.00	15.98	0.33	16.31	12.20	614.80	-0.10	9.87	Yes	
MRW-2	3/27/2006	627.00	630.85	610.00	605.00	15.37	0.31	15.68	11.59	615.41	0.61	10.48	Yes	
MRW-2	4/14/2006	627.00	630.85	610.00	605.00	14.54	0.31	14.85	10.76	616.24	0.83	11.31	Yes	
MRW-2	5/6/2006	627.00	630.85	610.00	605.00	14.47	0.27	14.74	10.68	616.32	0.08	11.38	Yes	
MRW-2	6/1/2006	627.00	630.85	610.00	605.00	13.69	0.23	13.92	9.89	617.11	0.79	12.16	Yes	
MRW-2	6/29/2006	627.00	630.85	610.00	605.00	NP	0.00	15.00	11.15	615.85	-1.26	10.85	Yes	
MRW-2	7/17/2006	627.00	630.85	610.00	605.00	15.67	0.12	15.79	11.85	615.15	-0.70	10.18	Yes	
MRW-2	8/24/2006	627.00	630.85	610.00	605.00	16.09	0.16	16.25	12.27	614.73	-0.43	9.76	Yes	
MRW-2	9/1/2006	627.00	630.85	610.00	605.00	16.12	0.06	16.18	12.28	614.72	-0.01	9.73	Yes	
MRW-2	9/14/2006	627.00	630.85	610.00	605.00	NP	0.00	16.69	12.84	614.16	-0.56	9.16	Yes	
MRW-2	9/28/2006	627.00	630.85	610.00	605.00	16.42	0.10	16.52	12.59	614.41	0.25	9.43	Yes	
MRW-2	11/2/2006	627.00	630.85	610.00	605.00	16.45	0.11	16.56	12.62	614.38	-0.03	9.40	Yes	
MRW-2	11/21/2006	627.00	630.85	610.00	605.00	16.64	0.42	17.06	12.88	614.12	-0.26	9.21	Yes	
MRW-2	12/14/2006	627.00	630.85	610.00	605.00	16.33	0.77	17.10	12.65	614.35	0.23	9.52	Yes	
MRW-2	12/28/2006	627.00	630.85	610.00	605.00	16.75	2.00	18.75	13.33	613.67	-0.68	9.10	Yes	
MRW-2	1/4/2007	627.00	630.85	610.00	605.00	16.08	1.52	17.60	12.56	614.44	0.77	9.77	Yes	

Table 4
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)	Comment
MRW-2	1/18/2007	627.00	630.85	610.00	605.00	NP	0.00	16.88	13.03	613.97	-0.47	8.97	Yes	
MRW-2	2/1/2007	627.00	630.85	610.00	605.00	17.2	0.15	17.35	13.38	613.62	-0.35	8.65	Yes	
MRW-2	2/22/2007	627.00	630.85	610.00	605.00	17.82	0.16	17.98	14.00	613.00	-0.62	8.03	Yes	
MRW-2	3/15/2007	627.00	630.85	610.00	605.00	17.56	0.66	18.22	13.85	613.15	0.15	8.29	Yes	
MRW-2	3/29/2007	627.00	630.85	610.00	605.00	16.95	1.15	18.10	13.35	613.65	0.50	8.90	Yes	
MRW-2	4/13/2007	627.00	630.85	610.00	605.00	16.37	0.51	16.88	12.63	614.37	0.72	9.48	Yes	
MRW-2	4/29/2007	627.00	630.85	610.00	605.00	15.74	0.56	16.30	12.01	614.99	0.62	10.11	Yes	
MRW-2	5/10/2007	627.00	630.85	610.00	605.00	15.86	0.36	16.22	12.09	614.91	-0.08	9.99	Yes	
MRW-2	11/21/2012	627.00	630.85	610.00	605.00	16.9	0.28	17.18	13.11	613.89	-1.02	8.95	Yes	Pump currently Shut Down
MRW-2	12/17/2012	627.00	630.85	610.00	605.00	17.11	0.29	17.40	13.32	613.68	-0.21	8.74	Yes	Pump currently Shut Down
Well connected to Barge Dock Skimmer system														
MRW-2	3/25/2013	627.00	630.85	610.00	605.00	18.2	0.28	18.48	14.41	612.59	1.09	7.65	Yes	
MRW-2	3/25/2013	627.00	630.85	610.00	605.00	15.87	0.29	16.16	12.08	614.92	2.33	9.98	Yes	
MRW-2	4/24/2014	627.00	630.85	610.00	605.00	15.95	0.28	16.23	12.16	614.84	-0.08	9.90	Yes	
MRW-2	5/5/2014	627.00	630.85	610.00	605.00	13.31	0.17	13.48	9.50	617.50	2.66	12.54	Yes	
MRW-2	7/14/2014	627.00	630.85	610.00	605.00	13.43	0.21	13.64	9.63	617.37	-0.13	12.42	Yes	
MRW-2	7/18/2014	627.00	630.85	610.00	605.00	13.86	0.03	13.89	10.02	616.98	-0.39	11.99	Yes	
MRW-2	7/23/2014	627.00	630.85	610.00	605.00	14.03	0.25	14.28	10.23	616.77	-0.22	11.82	Yes	
MRW-2	9/4/2014	627.00	630.85	610.00	605.00	12.46	0.27	12.73	8.67	618.33	1.57	13.39	Yes	
MRW-2	2/19/2015	627.00	630.85	610.00	605.00	16.11	0.64	16.75	12.40	614.60	-3.73	9.74	Yes	
MRW-2	4/13/2015	627.00	630.85	610.00	605.00	16.74	0.32	17.06	12.96	614.04	-0.56	9.11	Yes	
MRW-2	4/17/2015	627.00	630.85	610.00	605.00	16.42	0.32	16.74	12.64	614.36	0.32	9.43	Yes	
MRW-2	4/22/2015	627.00	630.85	610.00	605.00	16.05	0.30	16.35	12.26	614.74	0.37	9.80	Yes	
MRW-2	4/28/2015	627.00	630.85	610.00	605.00	15.78	0.21	15.99	11.98	615.02	0.29	10.07	Yes	
MRW-2	5/5/2015	Pulled and removed pumps - system shut down - moved to bailing wells												
MRW-2	5/9/2015	627.00	630.85	610.00	605.00	15.69	0.15	15.84	11.87	615.13	0.10	10.16	Yes	Bailed 1 Cup
MRW-2	5/12/2015	627.00	630.85	610.00	605.00	15.26	0.19	15.45	11.45	615.55	0.42	10.59	Yes	
MRW-2	5/15/2015	627.00	630.85	610.00	605.00	14.61	0.19	14.80	10.80	616.20	0.65	11.24	Yes	Bailed <0.25 gallons
MRW-2	5/22/2015	627.00	630.85	610.00	605.00	14.15	0.22	14.37	10.35	616.65	0.45	11.70	Yes	Bailed <0.25 gallons
MRW-2	5/28/2015	627.00	630.85	610.00	605.00	13.9	0.21	14.11	10.10	616.90	0.25	11.95	Yes	Bailed <0.25 gallons
MRW-2	6/5/2015	627.00	630.85	610.00	605.00	14.2	0.21	14.41	10.40	616.60	-0.30	11.65	Yes	Bailed <0.25 gallons
MRW-2	6/9/2015	627.00	630.85	610.00	605.00	14.02	0.19	14.21	10.21	616.79	0.18	11.83	Yes	Bailed <0.25 gallons
MRW-2	6/13/2015	627.00	630.85	610.00	605.00	14.44	0.17	14.61	10.63	616.37	-0.42	11.41	Yes	Bailed <0.25 gallons (trace)
MRW-2	6/19/2015	627.00	630.85	610.00	605.00	14.77	0.18	14.95	10.96	616.04	-0.33	11.08	Yes	Bailed a trace amount of LNAPL
MRW-2	6/25/2015	627.00	630.85	610.00	605.00	14.74	0.18	14.92	10.93	616.07	0.03	11.11	Yes	Bailed a trace amount of LNAPL
MRW-2	7/2/2015	627.00	630.85	610.00	605.00	14.94	0.16	15.10	11.12	615.88	-0.20	10.91	Yes	Bailed a trace amount of LNAPL
MRW-2	7/7/2015	627.00	630.85	610.00	605.00	14.72	0.16	14.88	10.90	616.10	0.22	11.13	Yes	
MRW-2	7/13/2015	627.00	630.85	610.00	605.00	14.53	0.15	14.68	10.71	616.29	0.19	11.32	Yes	No LNAPL bailed
MRW-2	7/21/2015	627.00	630.85	610.00	605.00	15.08	0.13	15.21	11.26	615.74	-0.55	10.77	Yes	
MRW-2	7/27/2015	627.00	630.85	610.00	605.00	15.4	0.11	15.51	11.57	615.43	-0.32	10.45	Yes	
MRW-2	7/31/2015	627.00	630.85	610.00	605.00	15.59	0.13	15.72	11.77	615.23	-0.19	10.26	Yes	

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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)	Comment
MRW-2	8/7/2015	627.00	630.85	610.00	605.00	15.62	0.12	15.74	11.80	615.20	-0.03	10.23	Yes	
MRW-2	8/14/2015	627.00	630.85	610.00	605.00	15.66	0.12	15.78	11.84	615.16	-0.04	10.19	Yes	
MRW-2	8/24/2015	627.00	630.85	610.00	605.00	15.19	0.12	15.31	11.37	615.63	0.47	10.66	Yes	
MRW-2	9/10/2015	627.00	630.85	610.00	605.00	14.88	0.12	15.00	11.06	615.94	0.31	10.97	Yes	
MRW-2	9/24/2015	627.00	630.85	610.00	605.00	14.33	0.12	14.45	10.51	616.49	0.55	11.52	Yes	
MRW-2	10/1/2015	627.00	630.85	610.00	605.00	14.14	0.11	14.25	10.31	616.69	0.19	11.71	Yes	
MRW-2	10/29/2015	627.00	630.85	610.00	605.00	14.51	0.13	14.64	10.69	616.31	0.37	11.34	Yes	
MRW-2	11/3/2015	627.00	630.85	610.00	605.00	14.36	0.14	14.50	10.54	616.46	0.15	11.49	Yes	
MRW-2	10/3/2016	627.00	630.85	610.00	605.00	14.09	0.10	14.19	10.26	616.74	0.28	11.76	Yes	
MRW-2	5/2/2017	627.00	630.85	610.00	605.00	12.37	0.09	12.46	8.54	618.46	1.72	13.48	Yes	
MRW-2	5/22/2017	627.00	630.85	610.00	605.00	10.98	0.09	11.07	7.15	619.85	1.39	14.87	Yes	
MRW-2	5/31/2017	627.00	630.85	610.00	605.00	11.08	0.08	11.16	7.25	619.75	-0.10	14.77	Yes	
MRW-2	8/8/2017	627.00	630.85	610.00	605.00	12.92	0.08	13.00	9.09	617.91	-1.84	12.93	Yes	
MRW-2	8/15/2017	627.00	630.85	610.00	605.00	12.16	0.09	12.25	8.33	618.67	0.76	13.69	Yes	
MRW-2	5/14/2018	627.00	630.85	610.00	605.00	14.5	0.06	14.56	10.66	616.34	-2.33	11.35	Yes	
MRW-3	2/19/2003	625.70	632.11	610.70	605.70	17.61	0.94	18.55	11.41	614.29	NA	8.80	Yes	
MRW-3	3/13/2003	625.70	632.11	610.70	605.70	17.93	0.73	18.66	11.68	614.02	-0.27	8.48	Yes	
MRW-3	4/9/2003	625.70	632.11	610.70	605.70	17.57	1.12	18.69	11.41	614.29	0.27	8.84	Yes	
MRW-3	4/18/2003	625.70	632.11	610.70	605.70	17.52	1.13	18.65	11.36	614.34	0.05	8.89	Yes	
MRW-3	4/25/2003	625.70	632.11	610.70	605.70	17.35	2.97	20.32	11.60	614.10	-0.24	9.06	Yes	
MRW-3	5/15/2003	625.70	632.11	610.70	605.70	16.23	2.87	19.10	10.46	615.24	1.14	10.18	Yes	
MRW-3	6/10/2003	625.70	632.11	610.70	605.70	16.58	0.37	16.95	10.25	615.45	0.21	9.83	Yes	
MRW-3	7/2/2003	625.70	632.11	610.70	605.70	14.67	6.30	20.97	9.67	616.03	0.59	11.74	Yes	
MRW-3	7/7/2003	625.70	632.11	610.70	605.70	15.82	5.09	20.91	10.55	615.15	-0.88	10.59	Yes	
MRW-3	7/30/2003	625.70	632.11	610.70	605.70	16	1.25	17.25	9.87	615.83	0.68	10.41	Yes	
MRW-3	8/12/2003	625.70	632.11	610.70	605.70	16.77	0.07	16.84	10.38	615.32	-0.51	9.64	Yes	
MRW-3	9/8/2003	625.70	632.11	610.70	605.70	17.24	1.00	18.24	11.05	614.65	-0.68	9.17	Yes	
MRW-3	10/2/2003	625.70	632.11	610.70	605.70	16.9	2.75	19.65	11.10	614.60	-0.05	9.51	Yes	
MRW-3	10/20/2003	625.70	632.11	610.70	605.70	16.42	4.72	21.14	11.06	614.64	0.04	9.99	Yes	
MRW-3	12/3/2003	625.70	632.11	610.70	605.70	17.66	0.64	18.30	11.39	614.31	-0.33	8.75	Yes	
MRW-3	1/8/2004	625.70	632.11	610.70	605.70	17.51	2.82	20.33	11.73	613.97	-0.34	8.90	Yes	
MRW-3	1/20/2004	625.70	632.11	610.70	605.70	17.54	3.46	21.00	11.90	613.80	-0.17	8.87	Yes	
MRW-3	2/24/2004	625.70	632.11	610.70	605.70	18.44	1.26	19.70	12.31	613.39	-0.41	7.97	Yes	
MRW-3	3/22/2004	625.70	632.11	610.70	605.70	17.44	3.72	21.16	11.86	613.84	0.45	8.97	Yes	
MRW-3	4/19/2004	625.70	632.11	610.70	605.70	15.88	5.41	21.29	10.68	615.02	1.18	10.53	Yes	
MRW-3	5/18/2004	625.70	632.11	610.70	605.70	15.98	4.62	20.60	10.60	615.10	0.08	10.43	Yes	
MRW-3	6/17/2004	625.70	632.11	610.70	605.70	14.38	6.09	20.47	9.33	616.37	1.27	12.03	Yes	
MRW-3	6/28/2004	625.70	632.11	610.70	605.70	16	1.10	17.10	9.84	615.86	-0.51	10.41	Yes	
MRW-3	7/27/2004	625.70	632.11	610.70	605.70	16.76	0.07	16.83	10.37	615.33	-0.53	9.65	Yes	
MRW-3	8/24/2004	625.70	632.11	610.70	605.70	15.41	5.44	20.85	10.22	615.48	0.15	11.00	Yes	

Table 4
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)	Comment
MRW-3	9/8/2004	625.70	632.11	610.70	605.70	16.41	0.04	16.45	10.01	615.69	0.21	10.00	Yes	
MRW-3	9/9/2004	625.70	632.11	610.70	605.70	16.18	0.41	16.59	9.86	615.84	0.15	10.23	Yes	
MRW-3	9/28/2004	625.70	632.11	610.70	605.70	15.24	1.27	16.51	9.11	616.59	0.75	11.17	Yes	
MRW-3	10/20/2004	625.70	632.11	610.70	605.70	15.87	0.06	15.93	9.47	616.23	-0.36	10.54	Yes	
MRW-3	11/23/2004	625.70	632.11	610.70	605.70	13.83	6.47	20.30	8.87	616.83	0.61	12.58	Yes	
MRW-3	1/5/2005	625.70	632.11	610.70	605.70	16.1	1.16	17.26	9.95	615.75	-1.08	10.31	Yes	
MRW-3	2/26/2005	625.70	632.11	610.70	605.70	17.1	0.30	17.40	10.76	614.94	-0.81	9.31	Yes	
MRW-3	3/29/2005	625.70	632.11	610.70	605.70	NP	0.00	NP						
MRW-3	4/29/2005	625.70	632.11	610.70	605.70	15.05	0.74	15.79	8.81	616.89	1.95	11.36	Yes	
MRW-3	5/31/2005	625.70	632.11	610.70	605.70	14.2	1.50	15.70	8.13	617.57	0.68	12.21	Yes	
MRW-3	6/28/2005	625.70	632.11	610.70	605.70	13.78	0.94	14.72	7.58	618.12	0.55	12.63	Yes	
MRW-3	7/28/2005	625.70	632.11	610.70	605.70	14.67	2.85	17.52	8.90	616.80	-1.32	11.74	Yes	
MRW-3	8/11/2005	625.70	632.11	610.70	605.70	14.96	5.02	19.98	9.67	616.03	-0.77	11.45	Yes	
MRW-3	9/1/2005	625.70	632.11	610.70	605.70	16.37	0.56	16.93	10.09	615.61	-0.41	10.04	Yes	
MRW-3	9/16/2005	625.70	632.11	610.70	605.70	15.6	3.64	19.24	10.00	615.70	0.08	10.81	Yes	
MRW-3	10/6/2005	625.70	632.11	610.70	605.70	13.34	7.19	20.53	8.54	617.16	1.47	13.07	Yes	
MRW-3	10/24/2005	625.70	632.11	610.70	605.70	13.2	7.54	20.74	8.47	617.23	0.06	13.21	Yes	
MRW-3	11/23/2005	625.70	632.11	610.70	605.70	12.38	8.42	20.80	7.85	617.85	0.62	14.03	Yes	
MRW-3	12/14/2005	625.70	632.11	610.70	605.70	12.43	8.50	20.93	7.92	617.78	-0.07	13.98	Yes	
MRW-3	1/5/2006	625.70	632.11	610.70	605.70	13.96		-						
MRW-3	1/19/2006	625.70	632.11	610.70	605.70	14	7.15	21.15	9.19	616.51	-1.27	12.41	Yes	
MRW-3	1/30/2006	625.70	632.11	610.70	605.70	13.95	7.18	21.13	9.14	616.56	0.04	12.46	Yes	
MRW-3	2/3/2006	625.70	632.11	610.70	605.70	14.95	4.14	19.09	9.46	616.24	-0.32	11.46	Yes	
MRW-3	2/9/2006	625.70	632.11	610.70	605.70	15.44	1.88	17.32	9.45	616.25	0.01	10.97	Yes	
MRW-3	2/16/2006	625.70	632.11	610.70	605.70	15.85	1.30	17.15	9.73	615.97	-0.28	10.56	Yes	
MRW-3	2/28/2006	625.70	632.11	610.70	605.70	16.15	0.67	16.82	9.89	615.81	-0.16	10.26	Yes	
MRW-3	3/16/2006	625.70	632.11	610.70	605.70	16.2	0.58	16.78	9.92	615.78	-0.03	10.21	Yes	
MRW-3	3/27/2006	625.70	632.11	610.70	605.70	15.33	1.47	16.80	9.25	616.45	0.67	11.08	Yes	
MRW-3	4/14/2006	625.70	632.11	610.70	605.70	14.47	1.44	15.91	8.38	617.32	0.87	11.94	Yes	
MRW-3	5/6/2006	625.70	632.11	610.70	605.70	14.48	0.67	15.15	8.22	617.48	0.16	11.93	Yes	
MRW-3	6/1/2006	625.70	632.11	610.70	605.70	13.65	1.55	15.20	7.59	618.11	0.63	12.76	Yes	
MRW-3	6/29/2006	625.70	632.11	610.70	605.70	14.68	2.92	17.60	8.92	616.78	-1.34	11.73	Yes	
MRW-3	7/17/2006	625.70	632.11	610.70	605.70	15.66	1.56	17.22	9.60	616.10	-0.68	10.75	Yes	
MRW-3	8/24/2006	625.70	632.11	610.70	605.70	16.37	0.61	16.98	10.10	615.60	-0.50	10.04	Yes	
MRW-3	9/1/2006	625.70	632.11	610.70	605.70	16.37	0.56	16.93	10.09	615.61	0.01	10.04	Yes	
MRW-3	9/14/2006	625.70	632.11	610.70	605.70	16.92	0.48	17.40	10.62	615.08	-0.53	9.49	Yes	
MRW-3	9/16/2006	625.70	632.11	610.70	605.70	15.6	3.64	19.24	10.00	615.70	0.61	10.81	Yes	
MRW-3	9/28/2006	625.70	632.11	610.70	605.70	16.55	1.07	17.62	10.38	615.32	-0.38	9.86	Yes	
MRW-3	11/2/2006	625.70	632.11	610.70	605.70	16.9	0.08	16.98	10.51	615.19	-0.13	9.51	Yes	
MRW-3	11/21/2006	625.70	632.11	610.70	605.70	16.62	2.20	18.82	10.70	615.00	-0.19	9.79	Yes	
MRW-3	12/14/2006	625.70	632.11	610.70	605.70	16.29	3.16	19.45	10.59	615.11	0.12	10.12	Yes	

Table 4
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)	Comment
MRW-3	12/28/2006	625.70	632.11	610.70	605.70	16.47		-						
MRW-3	1/4/2007	625.70	632.11	610.70	605.70	16.53	0.85	17.38	10.31	615.39	0.28	9.88	Yes	
MRW-3	1/18/2007	625.70	632.11	610.70	605.70	16.31	1.31	17.62	10.19	615.51	0.12	10.10	Yes	
MRW-3	2/1/2007	625.70	632.11	610.70	605.70	16.55	1.27	17.82	10.42	615.28	-0.23	9.86	Yes	
MRW-3	2/22/2007	625.70	632.11	610.70	605.70	17.52	3.31	20.83	11.85	613.85	-1.43	8.89	Yes	
MRW-3	3/15/2007	625.70	632.11	610.70	605.70	17.32	1.24	18.56	11.19	614.51	0.66	9.09	Yes	
MRW-3	3/29/2007	625.70	632.11	610.70	605.70	16.63	2.98	19.61	10.89	614.81	0.30	9.78	Yes	
MRW-3	4/13/2007	625.70	632.11	610.70	605.70	15.41	5.33	20.74	10.19	615.51	0.70	11.00	Yes	
MRW-3	4/29/2007	625.70	632.11	610.70	605.70	15.19	3.93	19.12	9.66	616.04	0.53	11.22	Yes	
MRW-3	5/10/2007	625.70	632.11	610.70	605.70	15.58	2.34	17.92	9.69	616.01	-0.03	10.83	Yes	
MRW-3	12/17/2012	625.70	632.11	610.70	605.70	17.5	0.17	17.67	11.13	614.57	-1.44	8.91	Yes	
l connected to Barge Dock Skimmer system														
MRW-3	3/25/2013	625.70	632.11	610.70	605.70	18.55	0.05	18.60	12.15	613.55	-1.02	7.86	Yes	Currently running on barge system
MRW-3	5/5/2013	625.70	632.11	610.70	605.70	15.8	0.89	16.69	9.58	616.12	2.57	10.61	Yes	
MRW-3	5/31/2013	625.70	632.11	610.70	605.70	14.52	2.20	16.72	8.58	617.12	1.00	11.89	Yes	
MRW-3	6/27/2013	625.70	632.11	610.70	605.70	12.87	4.61	17.48	7.45	618.25	1.13	13.54	Yes	
MRW-3	7/29/2013	625.70	632.11	610.70	605.70	14.76	4.29	19.05	9.27	616.43	-1.82	11.65	Yes	
MRW-3	8/29/2013	625.70	632.11	610.70	605.70	15.1	4.48	19.58	9.65	616.05	-0.38	11.31	Yes	
MRW-3	9/27/2013	625.70	632.11	610.70	605.70	15.9	3.85	19.75	10.32	615.38	-0.66	10.51	Yes	
MRW-3	11/1/2013	625.70	632.11	610.70	605.70	15.74	1.34	17.08	9.62	616.08	0.70	10.67	Yes	
MRW-3	12/31/2013	625.70	632.11	610.70	605.70	16.52	3.50	20.02	10.86	614.84	-1.24	9.89	Yes	
MRW-3	1/10/2014	625.70	632.11	610.70	605.70	16.5	3.41	19.91	10.82	614.88	0.04	9.91	Yes	
MRW-3	2/5/2014	625.70	632.11	610.70	605.70	17.88	1.33	19.21	11.76	613.94	-0.93	8.53	Yes	
MRW-3	2/23/2014	625.70	632.11	610.70	605.70	17.82	1.30	19.12	11.69	614.01	0.07	8.59	Yes	
MRW-3	3/11/2014	625.70	632.11	610.70	605.70	17.71	1.41	19.12	11.60	614.10	0.09	8.70	Yes	
MRW-3	3/26/2014	625.70	632.11	610.70	605.70	16.91	1.49	18.40	10.82	614.88	0.78	9.50	Yes	
MRW-3	3/31/2014	625.70	632.11	610.70	605.70	16.56	2.59	19.15	10.71	614.99	0.11	9.85	Yes	
MRW-3	4/18/2014	625.70	632.11	610.70	605.70	14.02	5.26	19.28	8.74	616.96	1.97	12.39	Yes	
MRW-3	5/5/2014	625.70	632.11	610.70	605.70	12.18	6.04	18.22	7.07	618.63	1.67	14.23	Yes	
MRW-3	5/20/2014	625.70	632.11	610.70	605.70	10.98	7.58	18.56	6.20	619.50	0.87	15.43	Yes	
MRW-3	6/5/2014	625.70	632.11	610.70	605.70	11.4	5.94	17.34	6.27	619.43	-0.07	15.01	Yes	
MRW-3	6/17/2014	625.70	632.11	610.70	605.70	11.49	5.58	17.07	6.28	619.42	-0.01	14.92	Yes	
MRW-3	6/26/2014	625.70	632.11	610.70	605.70	12.26	4.98	17.24	6.92	618.78	-0.64	14.15	Yes	
MRW-3	7/12/2014	625.70	632.11	610.70	605.70	13.32	2.07	15.39	7.35	618.35	-0.43	13.09	Yes	
MRW-3	7/14/2014	625.70	632.11	610.70	605.70	13.29	2.30	15.59	7.37	618.33	-0.02	13.12	Yes	
MRW-3	7/18/2014	625.70	632.11	610.70	605.70	14.05	0.20	14.25	7.68	618.02	-0.31	12.36	Yes	
MRW-3	7/23/2014	625.70	632.11	610.70	605.70	14.49	0.08	14.57	8.10	617.60	-0.41	11.92	Yes	
MRW-3	7/30/2014	625.70	632.11	610.70	605.70	14.81	0.04	14.85	8.41	617.29	-0.31	11.60	Yes	
MRW-3	8/2/2014	625.70	632.11	610.70	605.70	14.86	0.36	15.22	8.53	617.17	-0.12	11.55	Yes	
MRW-3	8/7/2014	625.70	632.11	610.70	605.70	15.1	0.21	15.31	8.74	616.96	-0.21	11.31	Yes	
MRW-3	8/14/2014	625.70	632.11	610.70	605.70	15.2	0.41	15.61	8.88	616.82	-0.14	11.21	Yes	

Table 4
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)	Comment
MRW-3	8/22/2014	625.70	632.11	610.70	605.70	13.38	2.27	15.65	7.46	618.24	1.42	13.03	Yes	
MRW-3	8/27/2014	625.70	632.11	610.70	605.70	12.86	1.16	14.02	6.70	619.00	0.76	13.55	Yes	
MRW-3	9/1/2014	625.70	632.11	610.70	605.70	12.8	0.79	13.59	6.56	619.14	0.14	13.61	Yes	
MRW-3	9/4/2014	625.70	632.11	610.70	605.70	12.67	0.74	13.41	6.42	619.28	0.14	13.74	Yes	
MRW-3	9/11/2014	625.70	632.11	610.70	605.70	13.51	0.02	13.53	7.10	618.60	-0.69	12.90	Yes	
MRW-3	9/18/2014	625.70	632.11	610.70	605.70	NP	0.00	13.89	7.48	618.22	-0.38	12.52	Yes	
MRW-3	9/25/2014	625.70	632.11	610.70	605.70	NP	0.00	14.06	7.65	618.05	-0.17	12.35	Yes	
MRW-3	10/2/2014	625.70	632.11	610.70	605.70	13.93	0.46	14.39	7.62	618.08	0.03	12.48	Yes	
MRW-3	10/9/2014	625.70	632.11	610.70	605.70	14	0.29	14.29	7.65	618.05	-0.03	12.41	Yes	
MRW-3	10/16/2014	625.70	632.11	610.70	605.70	14.03	0.26	14.29	7.68	618.02	-0.02	12.38	Yes	
MRW-3	10/23/2014	625.70	632.11	610.70	605.70	NP	0.00	14.54	8.13	617.57	-0.45	11.87	Yes	
MRW-3	10/31/2014	625.70	632.11	610.70	605.70	14.97	0.14	15.11	8.59	617.11	-0.46	11.44	Yes	
MRW-3	11/6/2014	625.70	632.11	610.70	605.70	14.98	0.30	15.28	8.63	617.07	-0.04	11.43	Yes	
MRW-3	11/13/2014	625.70	632.11	610.70	605.70	15.29	0.10	15.39	8.90	616.80	-0.27	11.12	Yes	
MRW-3	11/25/2014	625.70	632.11	610.70	605.70	15.72	0.03	15.75	9.32	616.38	-0.41	10.69	Yes	
MRW-3	12/4/2014	625.70	632.11	610.70	605.70	NP	0.00	15.83	9.42	616.28	-0.10	10.58	Yes	
MRW-3	12/15/2014	625.70	632.11	610.70	605.70	15.82	0.24	16.06	9.46	616.24	-0.04	10.59	Yes	
MRW-3	12/28/2014	625.70	632.11	610.70	605.70	15.08	0.93	16.01	8.87	616.83	0.59	11.33	Yes	
MRW-3	1/10/2015	625.70	632.11	610.70	605.70	15.61	0.60	16.21	9.33	616.37	-0.46	10.80	Yes	
MRW-3	1/24/2015	625.70	632.11	610.70	605.70	16.09	0.12	16.21	9.71	615.99	-0.38	10.32	Yes	
MRW-3	2/3/2015	625.70	632.11	610.70	605.70	16.47	0.05	16.52	10.07	615.63	-0.36	9.94	Yes	
MRW-3	2/12/2015	625.70	632.11	610.70	605.70	16.79	0.05	16.84	10.39	615.31	-0.32	9.62	Yes	
MRW-3	2/19/2015	625.70	632.11	610.70	605.70	16.75	0.36	17.11	10.42	615.28	-0.03	9.66	Yes	
MRW-3	2/24/2015	625.70	632.11	610.70	605.70	16.09	2.99	19.08	10.32	615.38	0.09	10.32	Yes	
MRW-3	3/14/2015	625.70	632.11	610.70	605.70	16.4	2.66	19.06	10.56	615.14	-0.24	10.01	Yes	
MRW-3	3/23/2015	625.70	632.11	610.70	605.70	16.43	2.79	19.22	10.62	615.08	-0.06	9.98	Yes	
MRW-3	4/3/2015	625.70	632.11	610.70	605.70	16.75	2.30	19.05	10.83	614.87	-0.21	9.66	Yes	
MRW-3	4/13/2015	625.70	632.11	610.70	605.70	16.49	2.54	19.03	10.63	615.07	0.21	9.92	Yes	
MRW-3	4/17/2015	625.70	632.11	610.70	605.70	16.45	2.59	19.04	10.60	615.10	0.03	9.96	Yes	
MRW-3	4/20/2015	625.70	632.11	610.70	605.70	15.44	3.60	19.04	9.80	615.90	0.79	10.97	Yes	
MRW-3	4/22/2015	625.70	632.11	610.70	605.70	15.68	3.21	18.89	9.96	615.74	-0.16	10.73	Yes	
MRW-3	4/24/2015	625.70	632.11	610.70	605.70	15.34	3.68	19.02	9.72	615.98	0.24	11.07	Yes	
MRW-3	4/28/2015	625.70	632.11	610.70	605.70	15.29	3.13	18.42	9.55	616.15	0.17	11.12	Yes	
MRW-3	4/29/2015	625.70	632.11	610.70	605.70	15.57	2.79	18.36	9.76	615.94	-0.21	10.84	Yes	
MRW-3	5/9/2015	625.70	632.11	610.70	605.70	17.42	0.66	18.08	11.15	614.55	-1.39	8.99	Yes	Bailed 5 gallons
MRW-3	5/12/2015	625.70	632.11	610.70	605.70	14.42	3.78	18.20	8.82	616.88	2.33	11.99	Yes	
MRW-3	5/15/2015	625.70	632.11	610.70	605.70	13.98	3.22	17.20	8.26	617.44	0.56	12.43	Yes	Bailed 4 gallons
MRW-3	5/22/2015	625.70	632.11	610.70	605.70	13.18	4.62	17.80	7.76	617.94	0.50	13.23	Yes	Bailed 6 gallons
MRW-3	5/28/2015	625.70	632.11	610.70	605.70	12.78	5.31	18.09	7.51	618.19	0.25	13.63	Yes	Bailed 7.5 gallons
MRW-3	6/5/2015	625.70	632.11	610.70	605.70	13.04	5.56	18.60	7.82	617.88	-0.31	13.37	Yes	Bailed 8 gallons
MRW-3	6/9/2015	625.70	632.11	610.70	605.70	13.06	4.93	17.99	7.71	617.99	0.12	13.35	Yes	Bailed 8 gallons

Table 4
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)	Comment
MRW-3	6/13/2015	625.70	632.11	610.70	605.70	13.86	3.44	17.30	8.19	617.51	-0.48	12.55	Yes	Bailed 4.5 gallons
MRW-3	6/19/2015	625.70	632.11	610.70	605.70	13.96	4.79	18.75	8.58	617.12	-0.39	12.45	Yes	Bailed 6.5 gallons
MRW-3	6/25/2015	625.70	632.11	610.70	605.70	13.81	5.08	18.89	8.49	617.21	0.09	12.60	Yes	Bailed 9.1 gallons
MRW-3	7/2/2015	625.70	632.11	610.70	605.70	14.18	4.89	19.07	8.82	616.88	-0.33	12.23	Yes	Bailed 7 gallons
MRW-3	7/7/2015	625.70	632.11	610.70	605.70	13.85	5.06	18.91	8.53	617.17	0.29	12.56	Yes	Bailed 9 gallons
MRW-3	7/13/2015	625.70	632.11	610.70	605.70	13.66	5.97	19.63	8.53	617.17	-0.01	12.75	Yes	Bailed 7 gallons
MRW-3	7/21/2015	625.70	632.11	610.70	605.70	14.35	4.75	19.10	8.96	616.74	-0.43	12.06	Yes	
MRW-3	7/27/2015	625.70	632.11	610.70	605.70	14.97	3.47	18.44	9.31	616.39	-0.34	11.44	Yes	
MRW-3	7/31/2015	625.70	632.11	610.70	605.70	15.26	3.66	18.92	9.64	616.06	-0.33	11.15	Yes	
MRW-3	8/7/2015	625.70	632.11	610.70	605.70	15.08	4.07	19.15	9.54	616.16	0.09	11.33	Yes	
MRW-3	8/14/2015	625.70	632.11	610.70	605.70	15.04	4.27	19.31	9.55	616.15	0.00	11.37	Yes	
MRW-3	8/24/2015	625.70	632.11	610.70	605.70	14.34	5.02	19.36	9.01	616.69	0.54	12.07	Yes	
MRW-3	9/10/2015	625.70	632.11	610.70	605.70	13.87	5.61	19.48	8.67	617.03	0.34	12.54	Yes	
MRW-3	9/24/2015	625.70	632.11	610.70	605.70	13.02	6.29	19.31	7.96	617.74	0.70	13.39	Yes	
MRW-3	10/1/2015	625.70	632.11	610.70	605.70	12.81	6.51	19.32	7.80	617.90	0.16	13.60	Yes	
MRW-3	10/29/2015	625.70	632.11	610.70	605.70	13.16	6.40	19.56	8.13	617.57	0.54	13.25	Yes	
MRW-3	11/3/2015	625.70	632.11	610.70	605.70	13.18	5.98	19.16	8.05	617.65	0.07	13.23	Yes	
MRW-3	10/3/2016	625.70	632.11	610.70	605.70	12.78	7.24	20.02	7.93	617.77	0.13	13.63	Yes	
MRW-3	5/2/2017	625.70	632.11	610.70	605.70	10.67	9.34	20.01	6.27	619.43	1.66	15.74	Yes	
MRW-3	5/8/2017	625.70	632.11	610.70	605.70	11.49	5.91	17.40	6.35	619.35	-0.08	14.92	Yes	
MRW-3	5/18/2017	625.70	632.11	610.70	605.70	10.67	8.59	19.26	6.11	619.59	0.24	15.74	Yes	
MRW-3	5/22/2017	625.70	632.11	610.70	605.70	9.96	6.49	16.45	4.94	620.76	1.16	16.45	Yes	
MRW-3	5/25/2017	625.70	632.11	610.70	605.70	10.36	4.64	15.00	4.95	620.75	0.00	16.05	Yes	
MRW-3	5/31/2017	625.70	632.11	610.70	605.70	9.86	7.26	17.12	5.01	620.69	-0.06	16.55	Yes	
MRW-3	6/21/2017	625.70	632.11	610.70	605.70	11.28	8.49	19.77	6.69	619.01	-1.68	15.13	Yes	
MRW-3	6/22/2017	625.70	632.11	610.70	605.70	12.18	4.27	16.45	6.69	619.01	0.01	14.23	Yes	
MRW-3	6/29/2017	625.70	632.11	610.70	605.70	11.76	6.98	18.74	6.85	618.85	-0.16	14.65	Yes	
MRW-3	7/7/2017	625.70	632.11	610.70	605.70	11.13	7.26	18.39	6.28	619.42	0.57	15.28	Yes	
MRW-3	7/12/2017	625.70	632.11	610.70	605.70	11.52	5.26	16.78	6.24	619.46	0.04	14.89	Yes	
MRW-3	7/19/2017	625.70	632.11	610.70	605.70	10.97	7.35	18.32	6.14	619.56	0.10	15.44	Yes	
MRW-3	7/26/2017	625.70	632.11	610.70	605.70	11.35	6.69	18.04	6.38	619.32	-0.24	15.06	Yes	
MRW-3	7/27/2017	625.70	632.11	610.70	605.70	12.53	2.35	14.88	6.62	619.08	-0.25	13.88	Yes	
MRW-3	8/4/2017	625.70	632.11	610.70	605.70	11.68	6.83	18.51	6.74	618.96	-0.11	14.73	Yes	
MRW-3	8/8/2017	625.70	632.11	610.70	605.70	12.44	3.81	16.25	6.85	618.85	-0.11	13.97	Yes	
MRW-3	8/15/2017	625.70	632.11	610.70	605.70	11.06	6.62	17.68	6.07	619.63	0.78	15.35	Yes	
MRW-3	8/22/2017	625.70	632.11	610.70	605.70	10.84	6.37	17.21	5.80	619.90	0.27	15.57	Yes	
MRW-3							Connected to portable skimming system							
MRW-3	8/30/2017	625.70	632.11	610.70	605.70	11.19	2.36	13.55	5.29	620.41	0.51	15.22	Yes	
MRW-3	9/7/2017	625.70	632.11	610.70	605.70	12.83	0.10	12.93	6.44	619.26	-1.15	13.58	Yes	
MRW-3	9/14/2017	625.70	632.11	610.70	605.70	15.02	0.07	15.09	8.63	617.07	-2.18	11.39	Yes	
MRW-3	9/19/2017	625.70	632.11	610.70	605.70	12.7	1.22	13.92	6.55	619.15	2.07	13.71	Yes	

Table 4
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)	Comment
MRW-3	9/27/2017	625.70	632.11	610.70	605.70	15.06	0.14	15.20	8.68	617.02	-2.13	11.35	Yes	
MRW-3	10/12/2017	625.70	632.11	610.70	605.70	11.42	0.35	11.77	5.09	620.61	3.59	14.99	Yes	
MRW-3	10/26/2017	625.70	632.11	610.70	605.70	12.02	0.04	12.06	5.62	620.08	-0.53	14.39	Yes	
MRW-3	5/14/2018	625.70	632.11	610.70	605.70	13.17	6.92	20.09	8.25	617.45	-2.63	13.24	Yes	
MRW-3	5/15/2018	625.70	632.11	610.70	605.70	13.97	4.05	18.02	8.43	617.27	-0.18	12.44	Yes	Portable system restarted
MRW-3	5/23/2018	625.70	632.11	610.70	605.70	15.47	0.98	16.45	9.27	616.43	-0.84	10.94	Yes	
MRW-3	5/24/2018	625.70	632.11	610.70	605.70	15.26	0.69	15.95	9.00	616.70	0.27	11.15	Yes	
MRW-3	5/30/2018	625.70	632.11	610.70	605.70	14.49	1.26	15.75	8.35	617.35	0.65	11.92	Yes	
MRW-3	6/8/2018	625.70	632.11	610.70	605.70	13.99	0.47	14.46	7.68	618.02	0.67	12.42	Yes	
MRW-3	6/12/2018	625.70	632.11	610.70	605.70	14.2	0.23	14.43	7.84	617.86	0.51	12.21	Yes	
MRW-3	6/15/2018	625.70	632.11	610.70	605.70	14.5	0.00	14.50	8.09	617.61	-0.25	11.91	Yes	System turned off 6/15-6/19
MRW-3	6/19/2018	625.70	632.11	610.70	605.70	12.1	3.39	15.49	6.42	619.28	1.42	14.31	Yes	
MRW-3	6/27/2018	625.70	632.11	610.70	605.70	13.35	0.85	14.20	7.12	618.58	-0.70	13.06	Yes	
MRW-3	6/28/2018	625.70	632.11	610.70	605.70	13.35	0.85	14.20	7.12	618.58	0.00	13.06	Yes	
MRW-3	7/3/2018	625.70	632.11	610.70	605.70	13.56	0.08	13.64	7.17	618.53	-0.04	12.85	Yes	
MRW-3	7/10/2018	625.70	632.11	610.70	605.70	13.78	0.14	13.92	7.40	618.30	-0.23	12.63	Yes	
MRW-3	7/25/2018	625.70	632.11	610.70	605.70	14.6	0.75	15.35	8.35	617.35	-0.95	11.81	Yes	
MRW-3	8/8/2018	625.70	632.11	610.70	605.70	15.1	0.81	15.91	8.86	616.84	-0.51	11.31	Yes	
MRW-3	8/16/2018	625.70	632.11	610.70	605.70	15.68	0.15	15.83	9.30	616.40	-0.44	10.73	Yes	
MRW-3	8/28/2018	625.70	632.11	610.70	605.70	15.64	0.57	16.21	9.35	616.35	-0.49	10.77	Yes	
MRW-3	9/4/2018	625.70	632.11	610.70	605.70	15.3	0.64	15.94	9.03	616.67	0.32	11.11	Yes	Pump removed from well
MRW-3	10/2/2018	625.70	632.11	610.70	605.70	13.6	6.02	19.62	8.48	617.22	0.87	12.81	Yes	
MRW-3	10/16/2018	625.70	632.11	610.70	605.70	11.82	7.45	19.27	7.01	618.69	1.47	14.59	Yes	
MRW-4	10/11/2009	625.69	628.21	615.69	595.69	14.85	0.21	15.06	12.38	613.31	NA	17.67	No	
MRW-4	4/28/2010	625.69	628.21	615.69	595.69	14.30	0.72	15.02	11.93	613.76	0.44	18.22	No	
MRW-4	10/25/2010	625.69	628.21	615.69	595.69	12.60	1.18	13.78	10.33	615.36	1.60	19.92	No	
MRW-4	4/25/2011	625.69	628.21	615.69	595.69	12.76	1.63	14.39	10.59	615.10	-0.26	19.76	No	
MRW-4	10/11/2011	625.69	628.21	615.69	595.69	14.18	2.00	16.18	12.09	613.60	-1.50	18.34	No	
MRW-4	1/4/2012	625.69	628.21	615.69	595.69	15.38	2.23	17.61	13.34	612.35	-1.25	17.14	No	
MRW-4	4/16/2012	625.69	628.21	615.69	595.69	14.84	2.38	17.22	12.83	612.86	0.51	17.68	No	
MRW-4	6/28/2012	625.69	628.21	615.69	595.69	10.37	3.53	13.90	8.61	617.08	4.22	22.15	Yes	
MRW-4	7/10/2012	625.69	628.21	615.69	595.69	11.94	2.76	14.70	10.01	615.68	-1.40	20.58	No	Spill Buddy Before Reading
MRW-4	7/24/2012	625.69	628.21	615.69	595.69	13.64	0.31	13.95	11.19	614.50	-1.17	18.88	No	
MRW-4	8/19/2012	625.69	628.21	615.69	595.69	14.24	0.38	14.62	11.80	613.89	-0.62	18.28	No	
MRW-4	8/28/2012	625.69	628.21	615.69	595.69	14.63	0.46	15.09	12.21	613.48	-0.41	17.89	No	Spill Buddy Before Reading
MRW-4	9/17/2012	625.69	628.21	615.69	595.69	15.31	0.18	15.49	12.83	612.86	-0.62	17.21	No	
MRW-4	9/28/2012	625.69	628.21	615.69	595.69	15.60	0.20	15.80	13.12	612.57	-0.29	16.92	No	Spill Buddy Before Reading
MRW-4	9/30/2012	625.69	628.21	615.69	595.69	15.62	0.08	15.70	13.12	612.57	0.01	16.90	No	
MRW-4	11/21/2012	625.69	628.21	615.69	595.69	15.90	0.21	16.11	13.43	612.26	-0.31	16.62	No	
MRW-4	12/17/2012	625.69	628.21	615.69	595.69	16.06	0.21	16.27	13.59	612.10	-0.16	16.46	No	

Table 4
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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)	Comment
MRW-4	3/25/2013	625.69	628.21	615.69	595.69	17.11	0.37	17.48	14.67	611.02	-1.08	15.41	No	
MRW-4	5/5/2013	625.69	628.21	615.69	595.69	14.49	0.30	14.79	12.03	613.66	2.64	18.03	No	
MRW-4	4/15/2015	625.69	628.21	615.69	595.69	15.22	1.39	16.61	13.00	612.69	-0.96	17.30	No	
MRW-4	4/22/2015	625.69	628.21	615.69	595.69	14.77	0.41	15.18	12.34	613.35	0.66	17.75	No	
MRW-4	4/29/2015	625.69	628.21	615.69	595.69	14.58	0.32	14.90	12.13	613.56	0.21	17.94	No	
MRW-4	5/12/2015	625.69	628.21	615.69	595.69	13.95	0.35	14.30	11.51	614.18	0.62	18.57	No	
MRW-4	6/9/2015	625.69	628.21	615.69	595.69	12.87	0.43	13.30	10.44	615.25	1.06	19.65	No	
MRW-4	5/23/2016	625.69	628.21	615.69	595.69	11.19	1.20	12.39	8.93	616.76	1.51	21.33	Yes	
MRW-4	10/3/2016	625.69	628.21	615.69	595.69	12.90	1.02	13.92	10.60	615.09	-1.67	19.62	No	
MRW-4	5/18/2017	625.69	628.21	615.69	595.69	11.17	0.57	11.74	8.77	616.92	1.83	21.35	Yes	
MRW-4	5/31/2017	625.69	628.21	615.69	595.69	10.20	0.37	10.57	7.76	617.93	1.01	22.32	Yes	
MRW-4	8/8/2017	625.69	628.21	615.69	595.69	11.96	0.45	12.41	9.54	616.15	-1.78	20.56	Yes	
MRW-4	8/15/2017	625.69	628.21	615.69	595.69	11.20	0.50	11.70	8.79	616.90	0.75	21.32	Yes	
MRW-5	10/12/2011	625.10	627.88	610.12	595.12	12.51	6.57	19.08	11.20	613.90	NA	20.25	Yes	
MRW-5	10/21/2011	625.10	627.88	610.12	595.12	12.70	6.52	19.22	11.37	613.73	-0.18	20.06	Yes	
MRW-5	10/27/2011	625.10	627.88	610.12	595.12	12.85	6.38	19.23	11.49	613.61	-0.12	19.91	Yes	
MRW-5	11/3/2011	625.10	627.88	610.12	595.12	13.15	6.14	19.29	11.74	613.36	-0.25	19.61	Yes	
MRW-5	11/9/2011	625.10	627.88	610.12	595.12	13.11	6.13	19.24	11.70	613.40	0.04	19.65	Yes	
MRW-5	11/17/2011	625.10	627.88	610.12	595.12	13.47	5.80	19.27	11.98	613.12	-0.29	19.29	Yes	
MRW-5	11/29/2011	625.10	627.88	610.12	595.12	13.80	5.00	18.80	12.14	612.97	-0.15	18.96	Yes	Reading after portable system removal
MRW-5	12/1/2011	625.10	627.88	610.12	595.12	14.13	7.63	21.76	13.05	612.05	-0.92	18.63	Yes	
MRW-5	1/4/2012	625.10	627.88	610.12	595.12	14.37	4.93	19.30	12.69	612.41	0.36	18.39	Yes	
MRW-5	2/16/2012	625.10	627.88	610.12	595.12	15.24	4.10	19.34	13.37	611.73	-0.68	17.52	Yes	
MRW-5	3/13/2012	625.10	627.88	610.12	595.12	15.09	4.26	19.35	13.26	611.84	0.11	17.67	Yes	
MRW-5	4/16/2012	625.10	627.88	610.12	595.12	13.74	5.65	19.39	12.22	612.88	1.04	19.02	Yes	
MRW-5	6/19/2012	625.10	627.88	610.12	595.12	9.82	9.72	19.54	9.21	615.89	3.01	22.94	Yes	Reading before install of well pumps for Barge system expansion.
MRW-5	6/21/2012	625.10	627.88	610.12	595.12	10.70	0.65	11.35	8.06	617.04	1.14	22.06	Yes	Connected to System
MRW-5	6/22/2012	625.10	627.88	610.12	595.12	8.40	10.53	18.93	7.97	617.13	0.10	24.36	Yes	Connected to System
MRW-5	6/28/2012	625.10	627.88	610.12	595.12	11.14	0.25	11.39	8.42	616.68	-0.45	21.62	Yes	Connected to System
MRW-5	12/17/2012	625.10	627.88	610.12	595.12	15.25	3.90	19.15	13.34	611.76	-4.92	17.51	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-5	3/25/2013	625.10	627.88	610.12	595.12	16.55	2.84	19.39	14.40	610.70	-1.06	16.21	Yes	
MRW-5	5/5/2013	625.10	627.88	610.12	595.12	13.27	6.12	19.39	11.85	613.25	2.55	19.49	Yes	
MRW-5	3/17/2015	625.10	627.88	610.12	595.12	14.75	4.22	18.97	12.91	612.19	1.49	18.01	Yes	
MRW-5	6/25/2015	625.10	627.88	610.12	595.12	13.64	0.26	13.90	10.92	614.18	0.94	19.12	Yes	
MRW-5	7/10/2015	625.10	627.88	610.12	595.12	13.55	0.36	13.91	10.85	614.25	0.07	19.21	Yes	
MRW-5	7/13/2015	625.10	627.88	610.12	595.12	13.50	0.37	13.87	10.80	614.30	0.05	19.26	Yes	
MRW-5	9/10/2015	625.10	627.88	610.12	595.12	13.79	0.29	14.08	11.07	614.03	-0.27	18.97	Yes	
MRW-5	9/24/2015	625.10	627.88	610.12	595.12	13.28	0.02	13.30	10.50	614.60	0.57	19.48	Yes	
MRW-5	10/1/2015	625.10	627.88	610.12	595.12	12.97	0.26	13.23	10.25	614.85	0.26	19.79	Yes	
MRW-5	10/14/2015	625.10	627.88	610.12	595.12	13.49	0.35	13.84	10.79	614.31	-0.54	19.27	Yes	
MRW-5	3/7/2016	625.10	627.88	610.12	595.12	10.74	0.25	10.99	8.02	617.08	2.77	22.02	Yes	
MRW-5	4/21/2016	625.10	627.88	610.12	595.12	8.94	9.82	18.76	8.35	616.75	-0.33	23.82	Yes	
MRW-5	5/18/2016	625.10	627.88	610.12	595.12	10.98	1.13	12.11	8.45	616.65	-0.10	21.78	Yes	

Table 4
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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)	Comment
MRW-5	5/25/2016	625.10	627.88	610.12	595.12	11.40	0.32	11.72	8.69	616.41	-0.24	21.36	Yes	
MRW-5	5/31/2016	625.10	627.88	610.12	595.12	11.29	0.29	11.58	8.57	616.53	0.12	21.47	Yes	
MRW-5	6/14/2016	625.10	627.88	610.12	595.12	11.18	0.28	11.46	8.46	616.64	0.11	21.58	Yes	
MRW-5	6/21/2016	625.10	627.88	610.12	595.12	10.66	0.19	10.85	7.92	617.18	0.54	22.10	Yes	
MRW-5	7/6/2016	625.10	627.88	610.12	595.12	10.17	7.51	17.68	9.06	616.04	-1.14	22.59	Yes	Pre system start
MRW-5	7/7/2016	625.10	627.88	610.12	595.12	11.07	3.10	14.17	8.98	616.12	0.08	21.69	Yes	
MRW-5	7/15/2016	625.10	627.88	610.12	595.12	11.08	0.27	11.35	8.36	616.74	0.10	21.68	Yes	
MRW-5	7/25/2016	625.10	627.88	610.12	595.12	11.75	0.44	12.19	9.07	616.03	-0.71	21.01	Yes	
MRW-5	8/26/2016	625.10	627.88	610.12	595.12	12.96	0.37	13.33	10.26	614.84	-1.19	19.80	Yes	
MRW-5	9/2/2016	625.10	627.88	610.12	595.12	12.85	0.50	13.35	10.18	614.92	0.08	19.91	Yes	
MRW-5	10/3/2016	625.10	627.88	610.12	595.12	13.04	0.30	13.34	10.33	614.77	-0.15	19.72	Yes	
MRW-5	10/6/2016	625.10	627.88	610.12	595.12	13.18	0.34	13.52	10.48	614.62	-0.15	19.58	Yes	
MRW-5	10/13/2016	625.10	627.88	610.12	595.12	13.24	0.33	13.57	10.53	614.57	-0.06	19.52	Yes	
MRW-5	5/2/2017	625.10	627.88	610.12	595.12	9.37	9.38	18.75	8.68	616.42	1.85	23.39	Yes	
MRW-5	5/8/2017	625.10	627.88	610.12	595.12	11.51	0.31	11.82	8.80	616.30	-0.12	21.25	Yes	
MRW-5	5/18/2017	625.10	627.88	610.12	595.12	11.19	0.31	11.50	8.48	616.62	0.32	21.57	Yes	
MRW-5	5/25/2017	625.10	627.88	610.12	595.12	10.09	0.31	10.40	7.38	617.72	1.10	22.67	Yes	
MRW-5	5/31/2017	625.10	627.88	610.12	595.12	10.14	0.33	10.47	7.43	617.67	-0.05	22.62	Yes	
MRW-5	6/14/2017	625.10	627.88	610.12	595.12	11.30	0.26	11.56	8.58	616.52	-1.14	21.46	Yes	
MRW-5	6/21/2017	625.10	627.88	610.12	595.12	11.76	0.64	12.40	9.12	615.98	-0.54	21.00	Yes	
MRW-5	06/29/17	625.10	627.88	610.12	595.12	11.96	0.26	12.22	9.24	615.86	-0.12	20.80	Yes	
MRW-5	7/7/2017	625.10	627.88	610.12	595.12	11.45	0.30	11.75	8.74	616.36	0.50	21.31	Yes	
MRW-5	07/12/17	625.10	627.88	610.12	595.12	11.44	0.22	11.66	8.71	616.39	0.03	21.32	Yes	
MRW-5	7/19/2017	625.10	627.88	610.12	595.12	11.33	0.30	11.63	8.62	616.48	0.09	21.43	Yes	
MRW-5	07/26/17	625.10	627.88	610.12	595.12	11.56	0.30	11.86	8.85	616.25	-0.23	21.20	Yes	
MRW-5	7/27/2017	625.10	627.88	610.12	595.12	11.73	0.30	12.03	9.02	616.08	-0.17	21.03	Yes	
MRW-5	08/04/17	625.10	627.88	610.12	595.12	11.88	0.30	12.18	9.17	615.93	-0.15	20.88	Yes	
MRW-5	8/8/2017	625.10	627.88	610.12	595.12	12.01	0.31	12.32	9.30	615.80	-0.13	20.75	Yes	
MRW-5	08/15/17	625.10	627.88	610.12	595.12	11.28	0.20	11.48	8.54	616.56	0.75	21.48	Yes	
MRW-5	8/22/2017	625.10	627.88	610.12	595.12	10.97	0.36	11.33	8.27	616.83	0.27	21.79	Yes	
MRW-5	08/30/17	625.10	627.88	610.12	595.12	10.01	0.02	10.03	7.23	617.87	1.04	22.75	Yes	
MRW-5	9/7/2017	625.10	627.88	610.12	595.12	10.28	0.33	10.61	7.57	617.53	-0.34	22.48	Yes	
MRW-5	09/14/17	625.10	627.88	610.12	595.12	10.91	0.59	11.50	8.26	616.84	-0.69	21.85	Yes	
MRW-5	9/19/2017	625.10	627.88	610.12	595.12	11.03	1.82	12.85	8.66	616.44	-0.39	21.73	Yes	
MRW-5	09/27/17	625.10	627.88	610.12	595.12	10.91	0.28	11.19	8.19	616.91	0.46	21.85	Yes	
MRW-5	10/12/2017	625.10	627.88	610.12	595.12	9.88	0.29	10.17	7.16	617.94	1.03	22.88	Yes	
MRW-5	10/26/2017	625.10	627.88	610.12	595.12	10.34	0.30	10.64	7.63	617.47	-0.46	22.42	Yes	
MRW-5	5/14/2018	625.10	627.88	610.12	595.12	11.75	7.08	18.83	10.55	614.55	-2.92	21.01	Yes	
MRW-5	5/15/2018	625.10	627.88	610.12	595.12	13.41	0.31	13.72	10.70	614.40	-0.15	19.35	Yes	
MRW-5	5/23/2018	625.10	627.88	610.12	595.12	13.70	0.30	14.00	10.99	614.11	-0.29	19.06	Yes	
MRW-5	5/24/2018	625.10	627.88	610.12	595.12	13.64	0.27	13.91	10.92	614.18	0.07	19.12	Yes	
MRW-5	5/30/2018	625.10	627.88	610.12	595.12	13.03	0.23	13.26	10.30	614.80	0.62	19.73	Yes	
MRW-5	6/8/2018	625.10	627.88	610.12	595.12	12.49	0.30	12.79	9.78	615.32	0.52	20.27	Yes	
MRW-5	6/12/2018	625.10	627.88	610.12	595.12	12.64	0.28	12.92	9.92	615.18	-0.15	20.12	Yes	

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MRW-5	6/15/2018	625.10	627.88	610.12	595.12	12.71	0.29	13.00	9.99	615.11	-0.07	20.05	Yes	
MRW-5	6/19/2018	625.10	627.88	610.12	595.12	11.68	0.01	11.69	8.90	616.20	1.09	21.08	Yes	
MRW-5	6/28/2018	625.10	627.88	610.12	595.12	12.95	0.97	13.92	10.39	614.71	-1.48	19.81	Yes	
MRW-5	7/3/2018	625.10	627.88	610.12	595.12	12.01	0.23	12.24	9.28	615.82	1.11	20.75	Yes	
MRW-5	7/10/2018	625.10	627.88	610.12	595.12	12.18	0.37	12.55	9.48	615.62	-0.20	20.58	Yes	
MRW-5	7/25/2018	625.10	627.88	610.12	595.12	12.68	2.55	15.23	10.47	614.63	-0.99	20.08	Yes	Pumps were too high, increased product thickness
MRW-5	8/8/2018	625.10	627.88	610.12	595.12	13.65	0.32	13.97	10.94	614.16	-0.47	19.11	Yes	
MRW-5	8/16/2018	625.10	627.88	610.12	595.12	14.10	0.25	14.35	11.38	613.72	-0.43	18.66	Yes	
MRW-5	9/4/2018	625.10	627.88	610.12	595.12	13.89	0.31	14.20	11.18	613.92	0.20	18.87	Yes	
MRW-5	9/17/2018	625.10	627.88	610.12	595.12	13.79	0.29	14.08	11.07	614.03	0.10	18.97	Yes	
MRW-5	10/22/2018	625.10	627.88	610.12	595.12	12.45	0.26	12.71	9.73	615.37	1.35	20.31	Yes	
MRW-5	10/29/2018	625.10	627.88	610.12	595.12	12.39	0.27	12.66	9.67	615.43	0.06	20.37	Yes	
MRW-6	10/12/2011	625.90	628.27	610.86	595.86	13.64	5.54	19.18	12.46	613.44	NA	18.77	Yes	
MRW-6	10/21/2011	625.90	628.27	610.86	595.86	13.12	8.58	21.70	12.59	613.31	-0.13	19.29	Yes	
MRW-6	10/27/2011	625.90	628.27	610.86	595.86	13.26	8.47	21.73	12.71	613.19	-0.12	19.15	Yes	
MRW-6	11/3/2011	625.90	628.27	610.86	595.86	13.53	8.19	21.72	12.92	612.98	-0.21	18.88	Yes	
MRW-6	11/7/2011	625.90	628.27	610.86	595.86	13.63	8.07	21.70	12.99	612.91	-0.07	18.78	Yes	System start reading
MRW-6	11/9/2011	625.90	628.27	610.86	595.86	15.61	0.08	15.69	13.26	612.64	-0.26	16.80	Yes	
MRW-6	11/18/2011	625.90	628.27	610.86	595.86	15.55	0.39	15.94	13.26	612.64	-0.01	16.86	Yes	Reading after system removal.
MRW-6	11/22/2011	625.90	628.27	610.86	595.86	14.02	7.31	21.33	13.22	612.68	0.04	18.39	Yes	
MRW-6	12/1/2011	625.90	628.27	610.86	595.86	13.32	5.86	19.18	12.21	613.69	1.01	19.09	Yes	
MRW-6	1/4/2012	625.90	628.27	610.86	595.86	14.70	7.09	21.79	13.85	612.05	-1.64	17.71	Yes	
MRW-6	2/16/2012	625.90	628.27	610.86	595.86	15.89	5.38	21.27	14.68	611.22	-0.82	16.52	Yes	
MRW-6	3/13/2012	625.90	628.27	610.86	595.86	15.34	6.61	21.95	14.39	611.51	0.29	17.07	Yes	
MRW-6	4/16/2012	625.90	628.27	610.86	595.86	13.92	8.12	22.04	13.29	612.61	1.10	18.49	Yes	
MRW-6	6/19/2012	625.90	628.27	610.86	595.86	10.26	11.84	22.10	10.43	615.47	2.86	22.15	Yes	Reading before install of well pumps for Barge system expansion.
MRW-6	6/21/2012	625.90	628.27	610.86	595.86	11.53	0.52	12.05	9.27	616.63	1.16	20.88	Yes	Connected to System
MRW-6	6/22/2012	625.90	628.27	610.86	595.86	9.70	8.31	18.01	9.12	616.78	0.16	22.71	Yes	Connected to System
MRW-6	6/28/2012	625.90	628.27	610.86	595.86	11.82	0.25	12.07	9.50	616.40	-0.39	20.59	Yes	Connected to System
MRW-6	12/17/2012	625.90	628.27	610.86	595.86	15.33	6.12	21.45	14.27	611.63	-4.77	17.08	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-6	3/25/2013	625.90	628.27	610.86	595.86	16.60	4.94	21.54	15.29	610.61	-1.02	15.81	No	
MRW-6	5/5/2013	625.90	628.27	610.86	595.86	13.36	8.31	21.67	12.78	613.12	2.52	19.05	Yes	
MRW-6	3/17/2015	625.90	628.27	610.86	595.86	14.89	6.03	20.92	13.82	612.08	1.48	17.52	Yes	
MRW-6	6/25/2015	625.90	628.27	610.86	595.86	13.64	0.26	13.90	11.33	614.57	2.49	18.77	Yes	
MRW-6	7/10/2015	625.90	628.27	610.86	595.86	14.24	0.29	14.53	11.93	613.97	0.84	18.17	Yes	
MRW-6	7/13/2015	625.90	628.27	610.86	595.86	14.21	0.28	14.49	11.90	614.00	0.03	18.20	Yes	
MRW-6	9/10/2015	625.90	628.27	610.86	595.86	14.51	0.29	14.80	12.20	613.70	-0.88	17.90	Yes	
MRW-6	9/24/2015	625.90	628.27	610.86	595.86	13.77	0.19	13.96	11.44	614.46	0.76	18.64	Yes	
MRW-6	10/1/2015	625.90	628.27	610.86	595.86	13.64	0.32	13.96	11.34	614.56	0.56	18.77	Yes	
MRW-6	10/14/2015	625.90	628.27	610.86	595.86	14.08	0.45	14.53	11.81	614.09	-0.47	18.33	Yes	

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MRW-6	4/21/2016	625.90	628.27	610.86	595.86	9.59	10.52	20.11	9.48	616.42	2.42	22.82	Yes	
MRW-6	5/18/2016	625.90	628.27	610.86	595.86	11.78	0.89	12.67	9.60	616.30	-0.12	20.63	Yes	
MRW-6	5/25/2016	625.90	628.27	610.86	595.86	12.17	0.30	12.47	9.86	616.04	-0.26	20.24	Yes	
MRW-6	5/31/2016	625.90	628.27	610.86	595.86	12.07	0.29	12.36	9.76	616.14	0.10	20.34	Yes	
MRW-6	6/7/2016	625.90	628.27	610.86	595.86	11.54	0.27	11.81	9.23	616.67	0.53	20.87	Yes	
MRW-6	6/14/2016	625.90	628.27	610.86	595.86	11.83	0.45	12.28	9.56	616.34	-0.33	20.58	Yes	
MRW-6	6/21/2016	625.90	628.27	610.86	595.86	11.51	0.28	11.79	9.20	616.70	0.36	20.90	Yes	
MRW-6	7/6/2016	625.90	628.27	610.86	595.86	11.84	3.60	15.44	10.24	615.66	-1.04	20.57	Yes	Pre system start
MRW-6	7/7/2016	625.90	628.27	610.86	595.86	12.65	0.33	12.98	10.35	615.55	-0.11	19.76	Yes	
MRW-6	7/15/2016	625.90	628.27	610.86	595.86	11.89	0.30	12.19	9.58	616.32	-0.03	20.52	Yes	
MRW-6	7/25/2016	625.90	628.27	610.86	595.86	12.55	0.37	12.92	10.26	615.64	-0.68	19.86	Yes	
MRW-6	7/25/2016	625.90	628.27	610.86	595.86	13.52	2.68	16.20	11.73	614.17	-1.47	18.89	Yes	water level dropped below skimming pump
MRW-6	9/2/2016	625.90	628.27	610.86	595.86	13.64	0.33	13.97	11.34	614.56	0.38	18.77	Yes	
MRW-6	10/3/2016	625.90	628.27	610.86	595.86	13.76	0.34	14.10	11.46	614.44	-0.12	18.65	Yes	
MRW-6	10/6/2016	625.90	628.27	610.86	595.86	13.90	0.33	14.23	11.60	614.30	-0.14	18.51	Yes	
MRW-6	10/13/2016	625.90	628.27	610.86	595.86	13.95	0.35	14.30	11.66	614.24	-0.05	18.46	Yes	
MRW-6	5/2/2017	625.90	628.27	610.86	595.86	9.99	10.05	20.04	9.78	616.12	1.88	22.42	Yes	
MRW-6	5/8/2017	625.90	628.27	610.86	595.86	12.29	0.33	12.62	9.99	615.91	-0.21	20.12	Yes	
MRW-6	5/18/2017	625.90	628.27	610.86	595.86	11.91	0.29	12.20	9.60	616.30	0.39	20.50	Yes	
MRW-6	5/25/2017	625.90	628.27	610.86	595.86	10.92	0.32	11.24	8.62	617.28	0.98	21.49	Yes	
MRW-6	5/31/2017	625.90	628.27	610.86	595.86	10.93	0.34	11.27	8.63	617.27	-0.01	21.48	Yes	
MRW-6	6/14/2017	625.90	628.27	610.86	595.86	12.07	0.29	12.36	9.76	616.14	-1.13	20.34	Yes	
MRW-6	6/21/2017	625.90	628.27	610.86	595.86	12.51	0.43	12.94	10.23	615.67	-0.47	19.90	Yes	
MRW-6	6/29/2017	625.90	628.27	610.86	595.86	12.72	0.26	12.98	10.41	615.49	-0.17	19.69	Yes	
MRW-6	7/7/2017	625.90	628.27	610.86	595.86	12.27	0.29	12.56	9.96	615.94	0.44	20.14	Yes	
MRW-6	07/12/17	625.90	628.27	610.86	595.86	12.22	0.27	12.49	9.91	615.99	0.05	20.19	Yes	
MRW-6	7/19/2017	625.90	628.27	610.86	595.86	12.15	0.33	12.48	9.85	616.05	0.06	20.26	Yes	
MRW-6	07/26/17	625.90	628.27	610.86	595.86	12.40	0.28	12.68	10.09	615.81	-0.24	20.01	Yes	
MRW-6	7/27/2017	625.90	628.27	610.86	595.86	12.50	0.29	12.79	10.19	615.71	-0.10	19.91	Yes	
MRW-6	08/04/17	625.90	628.27	610.86	595.86	12.66	0.34	13.00	10.36	615.54	-0.17	19.75	Yes	
MRW-6	8/8/2017	625.90	628.27	610.86	595.86	12.78	0.30	13.08	10.47	615.43	-0.11	19.63	Yes	
MRW-6	08/15/17	625.90	628.27	610.86	595.86	12.11	0.29	12.40	9.80	616.10	0.67	20.30	Yes	
MRW-6	8/22/2017	625.90	628.27	610.86	595.86	11.82	0.34	12.16	9.52	616.38	0.28	20.59	Yes	
MRW-6	08/30/17	625.90	628.27	610.86	595.86	NP	0.00	10.96	8.59	617.31	0.93	21.45	Yes	
MRW-6	9/7/2017	625.90	628.27	610.86	595.86	11.12	0.36	11.48	8.83	617.07	-0.24	21.29	Yes	
MRW-6	09/14/17	625.90	628.27	610.86	595.86	11.68	0.41	12.09	9.40	616.50	-0.57	20.73	Yes	
MRW-6	9/19/2017	625.90	628.27	610.86	595.86	12.11	0.47	12.58	9.84	616.06	-0.44	20.30	Yes	
MRW-6	09/27/17	625.90	628.27	610.86	595.86	11.71	0.28	11.99	9.40	616.50	0.44	20.70	Yes	
MRW-6	10/12/2017	625.90	628.27	610.86	595.86	10.72	0.29	11.01	8.41	617.49	0.99	21.69	Yes	
MRW-6	10/26/2017	625.90	628.27	610.86	595.86	11.15	0.34	11.49	8.85	617.05	-0.44	21.26	Yes	

Table 4
Groundwater and LNAPL Gauging Data - Barge Dock
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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)	Comment
MRW-6	5/14/2018	625.90	628.27	610.86	595.86	12.26	8.05	20.31	11.62	614.28	-2.77	20.15	Yes	
MRW-6	5/15/2018	625.90	628.27	610.86	595.86	14.10	0.31	14.41	11.80	614.10	-0.18	18.31	Yes	
MRW-6	5/23/2018	625.90	628.27	610.86	595.86	14.33	0.36	14.69	12.04	613.86	-0.24	18.08	Yes	
MRW-6	5/24/2018	625.90	628.27	610.86	595.86	14.30	0.30	14.60	11.99	613.91	0.04	18.11	Yes	
MRW-6	5/30/2018	625.90	628.27	610.86	595.86	13.76	0.28	14.04	11.45	614.45	0.54	18.65	Yes	
MRW-6	6/8/2018	625.90	628.27	610.86	595.86	13.28	0.29	13.57	10.97	614.93	0.48	19.13	Yes	
MRW-6	6/12/2018	625.90	628.27	610.86	595.86	13.39	0.33	13.72	11.09	614.81	-0.12	19.02	Yes	
MRW-6	6/19/2018	625.90	628.27	610.86	595.86	12.46	0.01	12.47	10.09	615.81	1.00	19.95	Yes	
MRW-6	6/28/2018	625.90	628.27	610.86	595.86	12.75	0.40	13.15	10.47	615.43	-0.37	19.66	Yes	
MRW-6	7/3/2018	625.90	628.27	610.86	595.86	12.70	0.32	13.02	10.40	615.50	0.07	19.71	Yes	
MRW-6	7/10/2018	625.90	628.27	610.86	595.86	12.95	0.35	13.30	10.66	615.24	-0.26	19.46	Yes	
MRW-6	7/25/2018	625.90	628.27	610.86	595.86	13.76	0.99	14.75	11.60	614.30	-0.95	18.65	Yes	Pumps were too high, increased product thickness
MRW-6	8/8/2018	625.90	628.27	610.86	595.86	14.36	0.36	14.72	12.07	613.83	-0.46	18.05	Yes	
MRW-6	8/16/2018	625.90	628.27	610.86	595.86	14.75	0.35	15.10	12.46	613.44	-0.39	17.66	Yes	
MRW-6	9/4/2018	625.90	628.27	610.86	595.86	14.63	0.32	14.95	12.33	613.57	0.13	17.78	Yes	
MRW-6	9/17/2018	625.90	628.27	610.86	595.86	14.92	0.19	15.11	12.59	613.31	-0.26	17.49	Yes	
MRW-6	10/22/2018	625.90	628.27	610.86	595.86	13.26	0.22	13.48	10.94	614.96	1.65	19.15	Yes	
MRW-6	10/29/2018	625.90	628.27	610.86	595.86	13.14	0.30	13.44	10.83	615.07	0.10	19.27	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	
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	Before EFR
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	After EFR
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	EFR Check
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	
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	
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	
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	
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	Reading before install of well pumps for Barge system expansion.
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	Connected to System
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	Connected to System
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	Connected to System
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	
Well connected to Barge Dock Skimmer system - Phase 2														
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	

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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)	Comment
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	1.50	20.04	Yes	
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	0.67	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	

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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)	Comment
MRW-7	9/10/2015	627.30	629.77	608.30	593.30	17.02	0.24	17.26	14.60	612.70	-0.25	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	0.49	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	0.50	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	-0.01	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	1.32	21.07	Yes	
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	Pre system start
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	0.70	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	
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	
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	

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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)	Comment
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	
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	Pumps were too high, increased product thickness
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	
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	
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	

Table 4
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)	Comment
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	
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	
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	
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	Before EFR
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	After EFR (12:25)
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	After EFR (13:30)
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	
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	
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	
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	
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	Reading before install of well pumps for Barge system expansion.
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	Connected to System
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	Connected to System
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	Connected to System
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	
Well connected to Barge Dock Skimmer system - Phase 2														
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	
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	Pre system start
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	

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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)	Comment
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	
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	
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	Pumps were too high, increased product thickness
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	
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	
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	

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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)	Comment		
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			
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			
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			
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			
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	Reading before install of well pumps for Barge system expansion.		
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	Connected to System		
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	Connected to System		
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	Connected to System		
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			
Well connected to Barge Dock Skimmer system - Phase 2																
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			
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	1.98	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	0.09	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	-0.16	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			

Table 4
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)	Comment
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-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	
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	
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	
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	Before EFR
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	After EFR
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	
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	
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	
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	
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	Reading before install of well pumps for Barge system expansion.
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	Connected to System
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	Connected to System - LNAPL**measure
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	Connected to System - LNAPL**measure
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	
Well connected to Barge Dock Skimmer system - Phase 2														
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	
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	
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	Connected to System
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	

Table 4
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)	Comment
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	
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	
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-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	

Table 4
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)	Comment
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	

Notes:

* Corrections for free product made using: TOC elevation-[depth to ground water-(product thickness * product density)]

Product density numbers used in column T

MM = Not Measured

BOS = Bottom of Screen

BTOC = Below Top of Casing

NA = Not Applicable

NP = No Free Product

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
	Sample Date														
MW-1			03/88 to 06/90 - No free product present in the well.												
MW-1			06/90 to 10/05 - The well was not sampled due to the presence of free product.												
MW-1	10/12/2005		660	<20	570	5000	2320	29	NA	NM	NM	NM	NM	NM	+10
MW-1	05/23/06		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-1	10/16/06		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-1	04/23/07		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-1	09/25/07		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-2	03/88 to 12/89		No free product present in the well.												
MW-2	05/90 to 06/07		The well was not sampled due to the presence of free product.												
MW-2	6/26/2007		Abandoned												
MW-3	3/23/1988		30	30	20	50	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-3	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	3.50	141	NM	NM	NM	0.07
MW-3	10/21/2003		230	17	23	42	22.2	<4.0	NA	3.70	-107	NM	NM	NM	NM
MW-3	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.24	009	NM	NM	NM	NM
MW-3	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.90	067	NM	NM	NM	0.10
MW-3	4/19/2005		1.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.1	-010	NM	NM	NM	NM
MW-3	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.74	-089	NM	753	7.42	1.0
MW-3	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.6	-052	NM	840	7.40	1.0
MW-3	10/22/2006		4.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	6.1	-227	NM	NM	6.87	7.0
MW-3	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.04	-169.8	NM	NM	6.97	3.0
MW-3	9/29/2007		3.9	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.28	-059.1	NM	NM	7.05	5.0
MW-3	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.94	249.4	NM	NM	6.32	1.0
MW-3	10/25/2008		1.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.25	101.4	NM	NM	6.80	2.0
MW-3	10/14/2009		2.9	<2.0	<2.0	<6.0	<2.0	<2.0	NA	4.51	163.0	NM	NM	7.34	NM
MW-3	10/17/2011		18.2	1.2	<1.0	<3.0	<1.0	<1.0	NA	0.89	-201.0	7.91	969	7.85	NM
MW-3	10/3/2012		29.9	2.2	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-3	10/2/2013		11.3	1.1	<0.34	<1.0	NA	<0.37	NA	NM	NM	NM	NM	NM	NM
MW-3	10/30/2014		7.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-3	10/6/2015		9.8	2.2	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-3	10/5/2016		7.6	0.68J	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-4S	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	1/31/1991		<1.0	<1.0	4.0	<2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-4S	7/10/1991		<1.0	<1.0	2.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-4S	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-4S	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-4S	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-4S	10/28/1993		<1.0	<1.0	4.2	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-4S	4/27/1994		1.2	<1.0	3.8	<2.0	1.2	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-4S	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-4S	4/4/1995		1.4	1.7	<1.0	<2.0	1	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-4S	11/14/1995		<1.0	<1.0	3.4	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NM	NM	NM	NM	NM	NM
MW-4S	11/5/1997		<1.0	<1.0	<1.0	<2.0	2.3	<4.0	NA	0.90	062	6.9	700	7.04	NM
MW-4S	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	3.07	NM	8.9	1010	6.89	NM
MW-4S	3/3/1999		<1.0	<1.0	3.4	3.3	NA	<4.0	NA	3.25	NM	7.0	NM	NM	NM
MW-4S	3/3/1999	D	<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-4S	8/17/1999		<1.0	<1.0	3.6	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/26/2000		0.357	<0.40	4.16	<0.55	<0.40	<0.30	NA	0.70	-048	NM	NM	NM	NM
MW-4S	10/10/2000		0.86	<0.20	11	0.46	1.7	<0.16	<1.1	1.40	-008	NM	NM	NM	4.00
MW-4S	4/24/2001		0.19	<0.20	<0.22	<0.23	<0.29	<0.16	NA	0.70	155	NM	NM	NM	NM
MW-4S	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	4.10	-019	NM	NM	NM	1.50
MW-4S	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	2.30	177	NM	NM	NM	3.00
MW-4S	11/6/2002		0.18	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-4S	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.20	-001	NM	NM	NM	2.55
MW-4S	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	10.70	017	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
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Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-4S	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.19	103	NM	NM	NM	NM
MW-4S	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.00	-77	NM	NM	NM	4.00
MW-4S	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.7	-85	NM	NM	NM	NM
MW-4S	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.4	-149	NM	863	7.26	10
MW-4S	5/23/2006		<1.0	<1.0	1.1	<3.0	<1.0	<1.0	NA	1.5	-126	NM	851	7.23	1.0
MW-4S	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4	-49.8	NM	NM	6.81	8.0
MW-4S	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.52	-210.0	NM	NM	6.87	10.0
MW-4S	9/25/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.04	-66.6	NM	NM	7.2	10.0
MW-4S	5/7/2008		<1.0	<1.0	11.6	<3.0	<1.0	<1.0	NA	0.62	-32.1	NM	NM	6.26	10.0
MW-4S	10/25/2008		<1.0	<1.0	1.9	<3.0	<1.0	<1.0	NA	1.16	-52.5	NM	NM	6.9	10.0
MW-4S	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-4D	7/21/1994		<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-4D	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-4D	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-4D	11/14/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-4D	4/22/1996		<1.0	<1.0	<1.0	2.0	1.2	<4.0	<2.5	NM	NM	NM	NM	NM	NM
MW-4D	11/5/1997		1.5	<1.0	<1.0	<2.0	<1.0	<4.0	NA	0.70	046	6.7	400	7.92	NM
MW-4D	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	0.15	NM	8.1	735	7.2	NM
MW-4D	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	2.70	NM	6.4	NM	NM	NM
MW-4D	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	0.20	-018	NM	NM	NM	NM
MW-4D	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.50	002	NM	NM	NM	3.00
MW-4D	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	0.70	039	NM	NM	NM	0.60
MW-4D	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.96	114	NM	NM	NM	1.00
MW-4D	11/6/2002		<0.13	<0.20	<0.22	0.53	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-4D	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.20	-014	NM	NM	NM	0.36
MW-4D	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	4.00	-065	NM	NM	NM	NM
MW-4D	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.82	104	NM	NM	NM	NM
MW-4D	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.80	-90	NM	NM	NM	1.00
MW-4D	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.9	-080	NM	NM	NM	NM
MW-4D	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.67	-264	NM	435	8.72	2.0

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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-4D	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.8	-150	NM	602	7.61	1.0
MW-4D	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	5.5	-313.5	NM	NM	8.54	2.0
MW-4D	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.51	-226.9	NM	NM	8.04	2.0
MW-4D	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.02	-206.6	NM	NM	8.26	1.0
MW-4D	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.3	200.2	NM	NM	9.15	5.0
MW-4D	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.66	-250.4	NM	NM	8.26	1.0
MW-4D	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-5	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-5	1/8/1992		1.0	5.0	<1.0	5.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-5	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-5	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	4.50	NM	6.9	NM	NM	NM
MW-5	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-5	8/18/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	4.10	087	NM	NM	NM	<1
MW-5	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	3.90	158	NM	NM	NM	0.30
MW-5	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	2.10	139	NM	NM	NM	NM
MW-5	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	4.00	088	NM	NM	NM	0.10
MW-5	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	2.63	105	NM	NM	NM	0.10
MW-5	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-5	4/15/2003		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	8/28/2003		Abandoned												
MW-6	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	8/29/1990	D	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.5	NM	NM	NM	NM	NM	NM

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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-6	1/31/1991		3.0	<1.0	<1.0	<2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-6	1/31/1991	D	2.6	<1.0	<1.0	NA	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-6	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-6	7/10/1991	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-6	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-6	1/8/1992	D	<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-6	10/14/1992		32	<1.0	55	10	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-6	6/25/1993		65	4.2	160	17	14.3	<8	8.5	NM	NM	NM	NM	NM	NM
MW-6	10/28/1993		38	5.1	200	25	25.5	<8	10	NM	NM	NM	NM	NM	NM
MW-6	4/27/1994		14	<1.0	100	4.4	9.6	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-6	10/27/1994		180	4.7	120	22	22.2	<4.0	3.3	NM	NM	NM	NM	NM	NM
MW-6	4/4/1995		4.6	<1.0	11	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-6	11/15/1995		140	6.1	93	11	16.1	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-6	4/22/1996		100	2.0	93	5.6	16.9	<4.0	0.72	NM	NM	NM	NM	NM	NM
MW-6	4/29/1997		450	13.0	500	31	57.8	<8.0	8.4	NM	NM	NM	NM	NM	NM
MW-6	11/5/1997		200	1.5	170	27	31.4	<4.0	NA	1.00	044	7.1	800	7.29	NM
MW-6	11/3/1998		13	<1.0	15	<2.0	<1.0	<4.0	NA	0.73	NM	7.2	1040	6.95	NM
MW-6	3/3/1999		8.9	<1.0	13	2.1	NA	<4.0	NA	2.86	NM	5.8	NM	NM	NM
MW-6	8/17/1999		200	5.0	150	23	NA	5.4	NA	NM	NM	NM	NM	NM	NM
MW-6	4/26/2000		65	5.49	88.8	17.28	8.02	2.11	NA	2.20	042	NM	NM	NM	NM
MW-6	10/10/2000		46	0.76	62	7.9	4.57	<0.25	4.2	1.20	100	NM	NM	NM	0.20
MW-6	4/24/2001		20	0.33	27	1.3	0.81	<0.16	NA	0.60	159	NM	NM	NM	NM
MW-6	10/23/2001		13	<0.20	15	0.57	0.40	<0.16	NA	1.20	018	NM	NM	NM	0.10
MW-6	4/23/2002		9.8	0.39	11	0.45	<0.29	<0.16	<1.1	1.96	084	NM	NM	NM	0.20
MW-6	11/7/2002		46	1.50	60	23	10.05	<0.16	4.3	NM	NM	NM	NM	NM	NM
MW-6	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.38	093	NM	NM	NM	0.09
MW-6	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.00	047	NM	NM	NM	NM
MW-6	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.09	254	NM	NM	NM	NM
MW-6	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.30	55	NM	NM	NM	0.00
MW-6	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	1.0	82	NM	NM	NM	NM
MW-6	10/12/2005		3.3	0.60 J	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM

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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-6	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-6	5/06 to 9/07		Well Damaged Unable to Sample												
MW-6	9/25/2007		Well Damaged Unable to Sample												
MW-6	7/29/2009		Abandoned												
MW-6R	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0						
MW-7	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	1/31/1991		<1.0	20	<1.0	30	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-7	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-7	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-7	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-7	6/25/1993		<1.0	<1.0	<1.0	<2.0	1.5	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-7	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-7	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-7	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-7	4/4/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-7	4/4/1995	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-7	11/14/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-7	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<2.4	NM	NM	NM	NM	NM	NM
MW-7	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NM	NM	NM	NM	NM	NM
MW-7	11/5/1997		2.8	<1.0	2.8	<2.0	<1.0	<4.0	NA	1.20	050	7.3	200	7.3	NM
MW-7	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	1.44	NM	8.2	288	6.95	NM
MW-7	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	0.60	NM	5.1	NM	NM	NM
MW-7	8/17/1999		<1.0	35	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-7	4/26/2000		<0.15	8.17	<0.5	0.631	0.748	<0.3	NA	2.80	062	NM	NM	NM	NM
MW-7	10/10/2000		<0.13	0.22	<0.22	<0.23	<0.29	<0.16	<1.1	5.00	177	NM	NM	NM	0.30
MW-7	4/24/2001		<0.13	13	<0.22	<0.23	<0.29	<0.16	NA	8.00	147	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-7	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	2.30	075	NM	NM	NM	NM
MW-7	10/23/2001	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	NM	NM	NM	NM
MW-7	4/23/2002		<0.13	0.26	<0.22	0.46	<0.29	<0.16	<1.1	0.89	-003	NM	NM	NM	NM
MW-7	4/23/2002	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	NM	NM	NM	NM
MW-7	11/7/2002		1.6	<0.20	<0.22	0.55	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-7	8/28/2003		Abandoned												
MW-8	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-8	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-8	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-8	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-8	6/25/1993		<1.0	<1.0	<1.0	<2.0	3.5	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-8	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<40	<1.6	NM	NM	NM	NM	NM	NM
MW-8	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-8	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-8	4/4/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-8	11/14/1995		<1.0	3.4	2.1	12	4.4	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-8	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NM	NM	NM	NM	NM	NM
MW-8	10/8/1996		<0.5	<2	<2	<3	<2.0	<2	NA	NM	NM	NM	NM	NM	NM
MW-8	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-8	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	1.30	057	7.1	800	7.19	NM
MW-8	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	2.98	NM	7.7	930	NM	NM
MW-8	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	4.53	NM	5.3	NM	NM	NM
MW-8	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-8	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	0.20	134	NM	NM	NM	NM
MW-8	10/10/2000		0.29	0.72	<0.22	0.34	<0.29	<0.16	<1.1	1.20	132	NM	NM	NM	0.30
MW-8	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	3.80	209	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-8	10/23/2001		<0.13	<0.20	<0.22	0.28	0.41	<0.16	NA	3.70	097	NM	NM	NM	0.10
MW-8	4/23/2002		<0.13	<0.20	<0.22	0.41	<0.29	<0.16	<1.1	3.53	241	NM	NM	NM	0.20
MW-8	11/7/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-8	8/18/2003		Abandoned												
MW-9	3/23/1988		370	170	14000	1500	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	9/21/1988		610	44	290	1200	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	4/27/1989		2610	1280	1600	3650	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	8/29/1990		13800	14200	5710	1910	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	1/31/1991		1240	701	1300	2230	NA	1700	NA	NM	NM	NM	NM	NM	NM
MW-9	1/31/1991	D	<50	<50	670	NA	NA	NA	86	NM	NM	NM	NM	NM	NM
MW-9	7/10/1991		627	255	794	1130	NA	750	NA	NM	NM	NM	NM	NM	NM
MW-9	1/8/1992		961	508	1090	1950	NA	1310	NA	NM	NM	NM	NM	NM	NM
MW-9	10/14/1992		56	222	738	843	NA	40	NA	NM	NM	NM	NM	NM	NM
MW-9	3/3/1999		<100	<100	520	480	NA	<400	NA	1.98	NM	7.2	NM	NM	NM
MW-9	8/17/1999		99	86	920	760	NA	<40	NA	NM	NM	NM	NM	NM	NM
MW-9	8/18/2000		74	31	530	400	860	<16	340	0.70	-057	NM	NM	NM	6.00
MW-9	10/10/2000		<550	<40	<91	<1500	1600	<32	<220	2.40	173	NM	NM	NM	3.00
MW-9	10/21/2003		290	54	830	1100	1000	<4.0	NA	6.31	086	NM	NM	NM	NM
MW-9	4/20/2004		320	27	690	650	830	22	NA	2.21	191	NM	NM	NM	NM
MW-9	11/18/2004		256	14.6	542	585	627	<5.0	159	1.00	44	NM	NM	NM	0.00
MW-9	4/19/2005		186	2.2	241	42.6	216.1	<1.0	81.3	1.3	-10	NM	NM	NM	NM
MW-9	10/12/2005		380	31	570	287	440	9.9 J	170	0.94	-122	NM	920	7.61	2.0
MW-9	5/23/2006		307	12.0	588	304	447	<5.0	190	1.1	-118	NM	886	7.58	1.0
MW-9	5/23/2006	D	339	<50.0	658	<150	559	<50.0	NA	NM	NM	NM	NM	NM	NM
MW-9	10/22/2006		237	12.5	442	204	292	<10.0	149	10.10	-143.5	NM	NM	6.9	3.00
MW-9	4/29/2007		319	17.0	554	213	263	<1.0	190	0.38	-132.3	NM	NM	7.07	5.00
MW-9	9/25/2007		314	13.7	443	256	313	<5.0	167	0.06	-10.4	NM	NM	7.01	3.00
MW-9	5/7/2008		314	17.5	521	357	340	<5.0	201	2.45	8.2	NM	NM	6.48	5.00
MW-9	10/25/2008		311	17.9	487	301	330	<5.0	169	0.57	-19.2	NM	NM	7.05	10.00
MW-9	10/27/2010		239	15.6	461	296	319	<5.0	150	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-9	10/17/2011		209	13.0	358	225	260	<1.0	118	2.77	-176	7.67	1001	7.97	NM
MW-9	10/3/2012		198	14.0	376	294	325	<5.0	NA	NM	NM	NM	NM	NM	NM
MW-10	3/23/1988		230	<1.0	90	40	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	9/21/1988		80	11	3.0	15	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	4/27/1989		260	42	18	45	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	8/29/1990		235	27	69	63	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	1/31/1991		69	7.0	15	17	NA	30	NA	NM	NM	NM	NM	NM	NM
MW-10	7/10/1991		26	13	31	22	NA	30	NA	NM	NM	NM	NM	NM	NM
MW-10	1/8/1992		3.0	<1.0	17	11	NA	30	NA	NM	NM	NM	NM	NM	NM
MW-10	10/14/1992		11	7.0	21	10	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-10	3/3/1999		110	7.9	35	25	NA	<4.0	NA	3.32	NM	7.5	NM	NM	NM
MW-10	8/17/1999		5.3	4.1	6	3	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-10	8/18/2000		48	12	49	43	36	<0.8	18	2.40	-096	NM	NM	NM	10+
MW-10	10/10/2000		140	31	120	130	103	<1.6	76	2.10	106	NM	NM	NM	10.00
MW-10	10/21/2003		72	11	79	50	27	<4.0	NA	1.10	-120	NM	NM	NM	NM
MW-10	4/20/2004		400	46	210	150	149	21	NA	2.40	056	NM	NM	NM	NM
MW-10	11/18/2004		90.6	3.0	61.6	31.0	41.5	<1.0	21.9	1.10	-134	NM	NM	NM	4.00
MW-10	4/19/2005		7.6	<1.0	2.9	<3.0	<1.0	<1.0	<1.0	1.2	-040	NM	NM	NM	NM
MW-10	10/12/2005		4.3	<1.0	0.61 J	<3.0	<1.0	<1.0	1.5	1.85	-090	NM	996	7.66	+10
MW-10	10/12/2005	D	10	0.91 J	1.2	<3.0	<1.0	<1.0	1.4	NM	NM	NM	NM	NM	NM
MW-10	5/23/2006		6.7	<1.0	3.7	<3.0	<1.0	<1.0	<1.0	1.9	-087	NM	1015	7.60	+10
MW-10	5/23/2006	D	6.6	<1.0	3.6	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-10	10/22/2006		12.1	0.73 J	8.5	3.2	1.3	<1.0	1.2	6.80	-98.2	NM	NM	7.07	10.00
MW-10	10/22/2006	D	12.2	0.76 J	8.9	3.0	1.5	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-10	4/29/2007		24.1	<1.0	8.7	<3.0	<1.0	<1.0	<1.0	1.14	-94.2	NM	NM	7.18	10.00
MW-10	4/29/2007	D	24.4	<1.0	8.7	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-10	10/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	0.25	-23.6	NM	NM	7.16	5.00
MW-10	5/10/2008		<1.0	<1.0	5.0	<3.0	<1.0	<1.0	<4.0	0.95	-32.4	NM	NM	6.52	NM
MW-10	5/10/2008	D	<1.0	<1.0	4.7	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-10	10/28/2008		4.0	<1.0	4.2	<3.0	<1.0	<1.0	<4.0	0.86	0.86	NM	NM	6.97	4.00

Table 5
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Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-10	10/14/2009		4.3	<1.0	1.9	<3.0	<1.0	<1.0	<4.0	1.54	-39	NM	NM	7.21	NM
MW-10	10/27/2010		1.1	1.6	1.8	3.0	1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-10	10/17/2011		6.4	<1.0	1.7	<3.0	<1.0	<1.0	<4.0	2.67	-187	8.47	895	7.99	NM
MW-10	10/3/2012		9.3	<1.0	1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-10	10/3/2012	D	9.0	<1.0	1.1	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-10	5/21/2014		<1.0	<1.0	5.0	<3.0	1.7	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-10	5/21/2014	D	<1.0	<1.0	5.1	<3.0	<2.8	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-10	5/4/2015		22.2	0.72J	5.2	3.2	<1.62	0.77J	1.3	NM	NM	NM	NM	NM	NM
MW-10	10/5/2016		3.1	<0.39	2.3	2.3J	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-11	3/23/1988		70	<1.0	7.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	4/27/1989		147	19	18	19	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	8/29/1990		69	3.0	24	9.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	1/31/1991		125	14	40	12	NA	20	NA	NM	NM	NM	NM	NM	NM
MW-11	7/10/1991		87	10	20	9.0	NA	30	NA	NM	NM	NM	NM	NM	NM
MW-11	1/8/1992		24	<1.0	3.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-11	10/14/1992		180	10	100	6.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-11	3/3/1999		18	<1.0	4.5	<2.0	NA	<4.0	NA	4.50	NM	7.2	NM	NM	NM
MW-11	8/17/1999		3.7	<1.0	3.3	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-11	8/18/2000		16	0.35	0.51	0.7	0.25	<0.16	<1.1	0.50	036	NM	NM	NM	6.00
MW-11	10/10/2000		73	3.6	23	11	4.5	<0.16	3.8	3.10	140	NM	NM	NM	1.00
MW-11	8/18/2003		Abandoned												
MW-12			03/88 to 12/89 - No free product present in the well.												
MW-12			05/90 to present - The well was not sampled due to the presence of free product.												
MW-13	3/23/1988		<1.0	<1.0	<1.0	10	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-13	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-13	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-13	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
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Superior, Wisconsin

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			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-13	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-13	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-13	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-13	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-13	8/18/2000		0.16	0.21	<0.22	<0.23	<0.29	<0.16	<1.1	7.30	173	NM	NM	NM	1.00
MW-13	8/18/2003		Abandoned												
MW-14			09/88 to 12/89 - No free product present in the well.												
MW-14			05/90 to present - The well was not sampled due to the presence of free product.												
MW-15S	9/21/1988		18	16	7.0	16	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/27/1989		36	2.0	5.0	6.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	8/29/1990		4.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	1/31/1991		2.0	3.0	<1.0	2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-15S	1/31/1991	D	1.9	1.8	<1.0	NA	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-15S	7/10/1991	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-15S	1/8/1992	D	<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	10/14/1992		1.0	2.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/14/1992	D	1.4	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-15S	6/25/1993		3.3	2.1	<1.0	2.4	5.1	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-15S	10/28/1993		1.4	<1.0	<1.0	<2.0	4.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	10/27/1994		1.4	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	4/5/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-15S	11/14/1995		3.1	1.4	1.7	<2.0	1.2	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-15S	04/22/1996		1.6	<1.0	<1.0	<2.0	<1.0	<4.0	<0.26	NM	NM	NM	NM	NM	NM
MW-15S	10/8/1996		1	<2	<2	<3	<2.0	2	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/29/1997		7.6	1.8	1.5	12	3.5	<4.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15S	11/5/1997		1.1	<1.0	<1.0	<2.0	1.3	<4.0	NA	1.30	027	7.3	800	7.58	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-15S	11/3/1998		12	3	3.2	<2.0	<1.0	13	NA	0.88	NM	7.7	937	NM	NM
MW-15S	3/3/1999		7.4	<1.0	1.6	<2.0	NA	<4.0	NA	2.80	NM	5.8	NM	NM	NM
MW-15S	8/17/1999		6.5	2.6	3	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	0.20	080	NM	NM	NM	NM
MW-15S	10/10/2000		5.7	0.52	8.3	2.7	22.6	<0.16	1.7	0.10	028	NM	NM	NM	6.00
MW-15S	10/23/2001		3.1	<0.20	1.2	0.30	0.35	<0.16	NA	1.00	-002	NM	NM	NM	1.50
MW-15S	4/23/2002		0.73	<0.20	<0.22	0.72	0.49	<0.16	<1.1	2.75	174	NM	NM	NM	0.30
MW-15S	1/7/2002		1.6	<0.20	<0.22	0.55	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-15S	4/15/2003		3.2	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.30	066	NM	NM	NM	0.73
MW-15S	10/21/2003		33	3.1	25	<3.0	<1.0	<4.0	NA	1.80	056	NM	NM	NM	NM
MW-15S	4/20/2004		14	<1.0	7.9	<3.0	<1.0	<4.0	NA	1.63	121	NM	NM	NM	NM
MW-15S	11/18/2004		1.7	<1.0	1.5	<3.0	<1.0	<1.0	<1.0	1.30	097	NM	NM	NM	0.10
MW-15S	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	1.5	50	NM	NM	NM	NM
MW-15S	10/12/2005		1.4	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15S	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15S	10/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15S	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15S	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15S	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-15S	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-15S	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/15/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/17/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.34	-254	7.89	1001	7.97	NM
MW-15S	10/3/2012		16.7	1.1	22.5	3.4	5.4	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	7/21/1994		<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-15D	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-15D	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-15D	11/14/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.2	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-15D	10/8/1996		<0.5	<2	<2	<3	<2.0	<2	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15D	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	1.00	045	7	900	7.04	NM
MW-15D	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	0.17	NM	7.3	890	NM	NM
MW-15D	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	3.79	NM	6	NM	NM	NM
MW-15D	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.3	NA	0.10	-014	NM	NM	NM	NM
MW-15D	10/10/2000		0.13	<0.20	<0.22	0.58	<0.29	<0.16	<1.1	0.20	132	NM	NM	NM	8.00
MW-15D	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	1.20	-120	NM	NM	NM	3.00
MW-15D	4/23/2002		2.60	0.45	0.48	1.10	0.55	<0.16	2.1	1.35	-012	NM	NM	NM	3.00
MW-15D	1/7/2002		0.31	<0.20	<0.22	0.58	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-15D	4/15/2003		9.6	1.5	1.4	<3.0	<1.0	<4.0	NA	0.20	-046	NM	NM	NM	0.80
MW-15D	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.70	-046	NM	NM	NM	NM
MW-15D	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.50	064	NM	NM	NM	NM
MW-15D	11/18/2004		7.1	0.57 J	<1.0	<3.0	<1.0	<1.0	<1.0	2.00	-103	NM	NM	NM	0.60
MW-15D	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	1.8	-80	NM	NM	NM	NM
MW-15D	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15D	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15D	10/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15D	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15D	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-15D	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-15D	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-15D	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/27/2010		25.1	2.5	2.6	4.2	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/17/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.62	-223	7.8	822	8.38	NM
MW-15D	10/3/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/3/2012	D	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-16	9/21/1988		770	3400	710	2800	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-16	4/27/1989		1540	2380	358	3410	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	7/11/1989		NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM
MW-16	8/29/1990		195	2340	360	3130	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	8/29/1990	D	1000	3400	660	3500	NA	<100	45	NM	NM	NM	NM	NM	NM
MW-16	1/31/1991		169	2869	599	3410	NA	510	NA	NM	NM	NM	NM	NM	NM
MW-16	1/31/1991	D	1200	4200	670	NA	NA	NA	120	NM	NM	NM	NM	NM	NM
MW-16	7/10/1991		689	4260	817	3800	NA	550	NA	NM	NM	NM	NM	NM	NM
MW-16	7/10/1991	D	360	3200	660	2800	NA	NA	<7.5	NM	NM	NM	NM	NM	NM
MW-16			08/91 to present - The well was not sampled due to the presence of free product.												
P-17DD	9/13/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NM	NM	NM	NM	NM	NM
MW-18	9/21/1988		55	<1.0	1	9	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-18	4/27/1989		641	27	7.0	31	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-18	8/29/1990		308	11	10	17	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-18	1/31/1991		166	13	<1.0	15	NA	80	NA	NM	NM	NM	NM	NM	NM
MW-18	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-18	1/8/1992		57	3.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-18	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-18	8/18/2000		0.62	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	4.50	190	NM	NM	NM	1.00
MW-18	8/18/2003		Abandoned												
MW-19	7/11/1989		3.0	<2.0	9.0	9.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	8/29/1990		<2.0	<2.0	9.0	36	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	8/29/1990	D	2.3	<1.0	6.3	35	NA	<1.0	23	NM	NM	NM	NM	NM	NM
MW-19	1/31/1991		<1.0	<1.0	3.0	3.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-19	7/10/1991		1.0	1.0	7.0	28	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-19	7/10/1991	D	2.2	<1.0	8.8	22	NA	NA	33	NM	NM	NM	NM	NM	NM
MW-19	1/8/1992		2.0	<1.0	7.0	56	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-19	1/8/1992	D	2.4	<2.0	9.4	51	NA	NA	37	NM	NM	NM	NM	NM	NM
MW-19	10/14/1992		1.0	1	2.0	25	NA	<20	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-19	10/14/1992	D	1.8	<1.0	3.2	32	60	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-19	6/25/1993		2.0	<1.0	4.5	48	90	<4.0	18	NM	NM	NM	NM	NM	NM
MW-19	10/28/1993		1.9	<1.0	2.1	31	66	<4.0	27	NM	NM	NM	NM	NM	NM
MW-19	4/27/1994		1.6	<1.0	1.8	19	45.7	<4.0	23	NM	NM	NM	NM	NM	NM
MW-19	10/28/1994		2.2	<1.0	1.7	43	105	<4.0	33	NM	NM	NM	NM	NM	NM
MW-19	4/4/1995		2.6	2.1	6.8	59	136	4.3	30	NM	NM	NM	NM	NM	NM
MW-19	11/14/1995		2.8	<1.0	2.5	62	158	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-19	4/22/1996		1.9	<1.0	2.3	63	172	<4.0	36	NM	NM	NM	NM	NM	NM
MW-19	10/8/1996		2	<2	2	61	147	3	NA	NM	NM	NM	NM	NM	NM
MW-19	4/29/1997		2.3	<1.0	3.2	59	114	<4.0	44	NM	NM	NM	NM	NM	NM
MW-19	11/5/1997		1.2	<1.0	<1.0	5	27	12	NA	0.50	021	7.4	1009	7.34	NM
MW-19	11/5/1998		<5.0	<5.0	<5.0	19	199	<20	NA	3.23	NM	7.3	1200	6.84	NM
MW-19	3/3/1999		2.2	<1.0	2.1	29	NA	<4.0	NA	3.70	NM	7.2	NM	NM	NM
MW-19	8/17/1999		3.3	2.5	<1.0	8.3	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-19	4/26/2000		0.871	<2.0	<2.50	6.2	122	<1.50	NA	0.70	-073	NM	NM	NM	NM
MW-19	10/10/2000		3.6	<2.0	<2.2	9.5	137	<1.6	100	0.50	032	NM	NM	NM	10.00
MW-19	4/24/2001		2.2	1.3	2.0	8.5	135	3.0	76	1.70	170	NM	NM	NM	NM
MW-19	10/23/2001		1.1	0.27	0.94	3.8	92	<0.32	NA	1.70	-118	NM	NM	NM	7.50
MW-19	4/23/2002		0.23	<0.20	<0.22	0.32	5.5	0.29	3.3	1.02	-023	NM	NM	NM	8.00
MW-19	11/8/2002		1.3	<0.20	0.69	2.2	133	1.4	59	NM	NM	NM	NM	NM	NM
MW-19	4/15/2003		1.0	<1.0	<1.0	<3.0	94	<4.0	NA	1.30	000	NM	NM	NM	>3.3
MW-19	10/21/2003		Abandoned - replaced (as MW-19 again) per city request due to new road construction.												
MW-19	10/21/2003		6.7	<1.0	2.5	14	95	<4.0	NA	5.31	014	NM	NM	NM	NM
MW-19	4/20/2004		4.6	<1.0	3.9	<3.0	29	<4.0	NA	2.06	119	NM	NM	NM	NM
MW-19	11/17/2004		1.8	<1.0	1.1	19.9	235.3	<1.0	12.2	1.50	-6.3	NM	NM	NM	2.00
MW-19	11/17/2004	D	0.84 J	<1.0	<1.0	19.6	217.9	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-19	4/19/2005		<1.0	<1.0	<1.0	13.1	254.1	<1.0	7.6	1.0	8	NM	NM	NM	NM
MW-19	4/19/2005	D	1.2	<1.0	<1.0	11.5	242.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-19	9/7/2005		Abandoned - replaced with MW-19R per city request due to retention pond re-construction.												
MW-19R	10/12/2005		320	12	150	148.9	248	3.0	270	1.40	-114	NM	1182	7.36	+10

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-19R	10/12/2005	D	320	13	150	148.4	236	2.0 J	260	NM	NM	NM	NM	NM	NM
MW-19R	05/23/06		No sample collected due to presence of product												
MW-19R	10/16/06		No sample collected due to presence of product												
MW-19R	04/23/07		No sample collected due to presence of product												
MW-19R	09/25/07		No sample collected due to presence of product												
MW-19R	05/01/08		No sample collected due to presence of product												
MW-19R	10/20/08		No sample collected due to presence of product												
MW-19R	10/08/13		Abandoned												
MW-20	7/11/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-20	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-20	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-20	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-20	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-20	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-20	6/25/1993		1.4	2.1	1.8	5.8	5.5	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-20	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-20	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-20	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-20	4/4/1995		<1.0	<1.0	1.2	<2.0	<1.0	<4.0	<1.8	NM	NM	NM	NM	NM	NM
MW-20	11/14/1995		<1.0	<1.0	<1.0	<2.0	2.1	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-20	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NM	NM	NM	NM	NM	NM
MW-20	10/8/1996		0.6	<2	<2	<3	2	<2	NA	NM	NM	NM	NM	NM	NM
MW-20	4/29/1997		<1.0	<1.0	1.2	<2.0	1.2	6.5	<1.0	NM	NM	NM	NM	NM	NM
MW-20	11/5/1997		<1.0	<1.0	1.4	<2.0	3	<4.0	NA	0.90	-007	7.9	762	7.36	NM
MW-20	11/5/1998		<5.0	<5.0	<5.0	<10	<5.0	<20	NA	0.53	NM	8	900	6.86	NM
MW-20	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	2.86	NM	7.3	NM	NM	NM
MW-20	8/17/1999		<1.0	1.3	5.8	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-20	4/26/2000		0.518	<0.40	4.92	1.631	5.61	<0.30	NA	0.20	-024	NM	NM	NM	NM
MW-20	10/10/2000		0.72	0.25	6.5	2.50	7.1	<0.16	17	0.50	030	NM	NM	NM	10.00
MW-20	8/18/2003		Abandoned												

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-21	7/11/1989		1970	31	27	50	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	8/29/1990		45	<2.0	<2.0	7.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	1/31/1991		750	3.0	<1.0	5.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-21	7/10/1991		85	1.0	<1.0	3.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-21	1/8/1992		1570	37	34	78	NA	50	NA	NM	NM	NM	NM	NM	NM
MW-21	8/18/2000		74	<0.20	<0.22	0.82	<0.29	<0.16	<1.1	5.60	207	NM	NM	NM	<1.0
MW-21	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	6.36	167	NM	NM	NM	NM
MW-21	11/16/2004		Well Damaged												
MW-21	4/19/2005		1.8	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.8	-72	NM	NM	NM	NM
MW-21	10/12/2005		40	1.1	2.0	2.7	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-21	5/23/2006		2840	82.1	181	161	40.6	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-21	10/22/2006		1300	20.7	40.9	40.4	2.01 J	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-21	4/29/2007		59.3	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-21	6/26/2007		Abandoned												
MW-22			06/89 to present - The well was not sampled due to the presence of free product.												
MW-23			06/89 to present - The well was not sampled due to the presence of free product.												
MW-24			06/89 to present - The well was not sampled due to the presence of free product.												
MW-25			06/89 to present - The well was not sampled due to the presence of free product.												
MW-26			06/89 to present - The well was not sampled due to the presence of free product.												
MW-27			06/89 to present - The well was not sampled due to the presence of free product.												
MW-28	7/11/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	8/29/1990	D	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.5	NM	NM	NM	NM	NM	NM

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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-28	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-28	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-28	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-28	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-28	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-28	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-28	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-28	4/5/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-28	11/15/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-28	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.26	NM	NM	NM	NM	NM	NM
MW-28	10/8/1996		4	33	18	75	33	<2	NA	NM	NM	NM	NM	NM	NM
MW-28	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NM	NM	NM	NM	NM	NM
MW-28	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	0.80	043	6.9	111	7.44	NM
MW-28	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	0.62	NM	8.3	1290	NM	NM
MW-28	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	2.51	NM	8.1	NM	NM	NM
MW-28	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-28	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	0.30	083	NM	NM	NM	NM
MW-28	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.13	<1.1	0.60	253	NM	NM	NM	0.40
MW-28	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	0.90	213	NM	NM	NM	NM
MW-28	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	1.50	-006	NM	NM	NM	0.20
MW-28	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	2.67	136	NM	NM	NM	0.30
MW-28	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-28	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.30	177	NM	NM	NM	0.13
MW-28	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.70	105	NM	NM	NM	NM
MW-28	4/20/2004		<1.0	<1.0	<1.0	<3.0	1.1	<4.0	NA	3.31	270	NM	NM	NM	NM
MW-28	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.70	107	NM	NM	NM	0.10
MW-28	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.1	50	NM	NM	NM	NM
MW-28	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.8	-122	NM	1174	7.78	0.2
MW-28	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.1	-100	NM	1098	7.72	0.2
MW-28	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	9.9	118	NM	NM	7.22	0.0
MW-28	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.59	95.2	NM	NM	7.13	1.0

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Former Amoco Terminal
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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-28	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.55	51.6	NM	NM	7.42	1.0
MW-28	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.06	235.9	NM	NM	6.86	1.0
MW-28	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.22	153.3	NM	NM	7.05	0.0
MW-28	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-28	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.28	154	NM	NM	7.57	NM
MW-28	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-28	10/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.09	37	9.35	1354	8.06	NM
MW-28	10/3/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-28	5/7/2013		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	1.74	359.6	9.3	1666	6.89	NM
MW-30S	7/11/1989		2670	282	80	368	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	8/29/1990		1850	293	30	374	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	8/29/1990	D	1700	250	23	280	NA	9.8	150	NM	NM	NM	NM	NM	NM
MW-30S	1/31/1991		578	73	3.0	840	NA	160	NA	NM	NM	NM	NM	NM	NM
MW-30S	1/31/1991	D	850	100	<25	NA	NA	NA	75	NM	NM	NM	NM	NM	NM
MW-30S	7/10/1991		904	59	<1.0	90	NA	160	NA	NM	NM	NM	NM	NM	NM
MW-30S	7/10/1991	D	1400	<100	<100	<100	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-30S	1/8/1992		68	<1.0	<1.0	10	NA	60	NA	NM	NM	NM	NM	NM	NM
MW-30S	1/8/1992	D	130	2.6	<1.0	4.6	NA	NA	2.0	NM	NM	NM	NM	NM	NM
MW-30S	10/14/1992		28	6	<1.0	1	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/14/1992	D	36	1.3	1.4	3.7	1.3	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-30S	6/25/1993		230	42	2.5	69	12.5	<8.0	3.5	NM	NM	NM	NM	NM	NM
MW-30S	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	15	NM	NM	NM	NM	NM	NM
MW-30S	4/27/1994		890	35	24	47	28	<20	22	NM	NM	NM	NM	NM	NM
MW-30S	10/28/1994		830	46	43	59	33	<8.0	27	NM	NM	NM	NM	NM	NM
MW-30S	4/6/1995		2200	140	70	110	48	<20	190	NM	NM	NM	NM	NM	NM
MW-30S	11/15/1995		1800	140	200	220	165	<40	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/22/1996		1800	170	150	250	182	<40	100 E	NM	NM	NM	NM	NM	NM
MW-30S	10/8/1996		600	44	68	67	53	43	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/8/1996	D	780	41	67	70	49	61	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/29/1997		600	33	62	62	39	33	37	NM	NM	NM	NM	NM	NM

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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-30S	11/5/1997		150	5.4	24	17	10.5	7.5	NA	0.90	028	7	432	7.52	NM
MW-30S	11/3/1998		3100	660	300	1400	396	210	NA	0.25	NM	6.5	970	7.03	NM
MW-30S	3/3/1999		3600	580	400	1200	NA	1200	NA	3.05	NM	6	NM	NM	NM
MW-30S	8/17/1999		1500	180	230	310	NA	800	NA	1.00	NM	9.2	NM	NM	NM
MW-30S	4/26/2000		1130	73.9	124	73	60.1	<1.50	NA	0.30	-084	NM	NM	NM	NM
MW-30S	10/10/2000		1100	64	120	73	54	<0.16	100	0.20	099	NM	NM	NM	0.40
MW-30S	4/24/2001	D	1400	87	160	99	73	<0.16	150	NM	NM	NM	NM	NM	NM
MW-30S	10/23/2001		1300	190	200	300	175	<4.9	NA	1.00	170	NM	NM	NM	0.10
MW-30S	4/23/2002		2900	810	300	920	306	<3.2	330	1.53	063	NM	NM	NM	0.20
MW-30S	11/6/2002		1400	140	200	220	164	<4.0	220	NM	NM	NM	NM	NM	NM
MW-30S	11/7/2002	D	1300	120	160	170	126	<7.5	170	NM	NM	NM	NM	NM	NM
MW-30S	4/15/2003		1900	180	180	320	175	<4.0	NA	0.30	171	NM	NM	NM	0.22
MW-30S	4/15/2003	D	1500	160	160	280	160	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/21/2003		1700	200	180	340	162	<4.0	NA	1.94	-060	NM	NM	NM	NM
MW-30S	10/21/2003	D	1900	280	230	420	207	<40	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/20/2004		2700	1700	380	1100	357	150	NA	1.42	120	NM	NM	NM	NM
MW-30S	4/20/2004	D	2800	320	360	700	145	100	NA	NM	NM	NM	NM	NM	NM
MW-30S	11/17/2004		1520	410	143	326	223.4	<1.0	<50	1.50	-13	NM	NM	NM	4.00
MW-30S	4/20/2005		2640	656	304	550	298.7	<1.0	390	2.0	169	NM	NM	NM	NM
MW-30S	10/11/2005		1500	120	230	209	187	32	240	NM	NM	NM	NM	NM	NM
MW-30S	5/23/2006		1130	36.9	191	<75.0	72.9	<25.0	221	NM	NM	NM	NM	NM	NM
MW-30S	10/24/2006		496	30.5	153	61.9	70.2	<10.0	122	NM	NM	NM	NM	NM	NM
MW-30S	4/30/2007		1300	806	183	712	202.9	<1.0	159	NM	NM	NM	NM	NM	NM
MW-30S	10/1/2007		1620	1090	263	858	289.2	<10	209	NM	NM	NM	NM	NM	NM
MW-30S	5/10/2008		725	88.7	65.1	90	102	<5.0	140	NM	NM	NM	NM	NM	NM
MW-30S	10/28/2008		1110	41.5	86.8	74.7	66.0	<10.0	109	NM	NM	NM	NM	NM	NM
MW-30S	10/18/2011		726	58.2	79.5	89.6	70.5	<1.0	93.4	2.36	-81	6.82	593	8.17	NM
MW-30S	4/17/2012		253	105	66.8	107	36.1	<1.0	NA	3.50	52.2	7.00	778	7.12	NM
MW-30S	10/2/2012		336	45	16.1	44.1	31.1	<2.0	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/2/2012	D	348	45.9	16.7	44.3	32.2	<2.0	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/7/2013		3230	2180	393	1240	413.6	<5.0	382	3.28	231.3	8.2	969	7.14	NM

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Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-30S	10/2/2013		1140	567	133	286	129.8	8.9J	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/21/2014		1710	806	190	494	198.3	<2.0	212	NM	NM	NM	NM	NM	NM
MW-30S	10/30/2014		1120	403	158	241	122.9	<4.8	144	NM	NM	NM	NM	NM	NM
MW-30S	5/5/2015		1530	578	243	530	215.9	<9.7	241	NM	NM	NM	NM	NM	NM
MW-30S	10/7/2015		1190	415	201	366	176.7	<9.7	211	NM	NM	NM	NM	NM	NM
MW-30S	5/24/2016		1230	507	205	363	180.8	<2.4	194	NM	NM	NM	NM	NM	NM
MW-30S	10/5/2016		1420	923	205	740	196.4	<9.7	199	NM	NM	NM	NM	NM	NM
MW-30S	6/27/2018		685	126	184	184.7	110.3	18.7	120	NM	NM	NM	NM	NM	NM
MW-30S	10/11/2018		409	118	88.3	113.7	46.1	2.0J	57.3	NM	NM	NM	NM	NM	NM
MW-30D	7/21/1994		1500	55	<20	50	NA	NA	190	NM	NM	NM	NM	NM	NM
MW-30D	10/28/1994		2000	110	49	100	42	<20	170	NM	NM	NM	NM	NM	NM
MW-30D	4/6/1995		2500	390	300	540	363	<80	180	NM	NM	NM	NM	NM	NM
MW-30D	11/15/1995		1500	120	90	100	71	<40	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/22/1996		2400	110	89	100	44	<40	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/8/1996		1800	100	73	86	54	180	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/29/1997		2000	110	63	110	42	180	120	NM	NM	NM	NM	NM	NM
MW-30D	11/5/1997		2300	130	72	110	27	1300	NA	0.40	026	6.7	762	7.55	NM
MW-30D	11/3/1998		2500	100	88	100	<20	180	NA	0.10	NM	6.5	950	6.96	NM
MW-30D	3/3/1999		2500	140	110	150	NA	1700	NA	3.23	NM	5.2	NM	NM	NM
MW-30D	8/17/1999		1600	98	84	100	NA	1600	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/26/2000		2180	106	70.5	82.6	33.5	<3.0	NA	0.10	029	NM	NM	NM	NM
MW-30D	10/10/2000		2400	96	83	90	39	<3.2	260	0.40	110	NM	NM	NM	2.00
MW-30D	10/10/2000	D	2400	96	79	85	37	<3.2	240	NM	NM	NM	NM	NM	NM
MW-30D	10/23/2001		720	29	11	39	21	<3.2	NA	1.20	-132	NM	NM	NM	>10
MW-30D	4/23/2002		1600	120	83	96	46	<1.6	270	1.58	017	NM	NM	NM	1.00
MW-30D	11/7/2002		880	32	16	34	16	<2.0	110	NM	NM	NM	NM	NM	NM
MW-30D	4/15/2003		1600	62	32	65	16	<40	NA	0.20	-110	NM	NM	NM	>3.30
MW-30D	10/21/2003		1100	51	25	42	18.1	<4.0	NA	1.70	-148	NM	NM	NM	NM
MW-30D	4/21/2004		990	44	34	59	56	<40	NA	2.23	-022	NM	NM	NM	NM
MW-30D	11/17/2004		2140	113	84.9	99.3	37	<1.0	299	0.90	-217	NM	NM	NM	0.90

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-30D	4/20/2005		671	34.1	21.1	26.2	9.7	<1.0	61.6	1.5	176	NM	NM	NM	NM
MW-30D	10/11/2005		170	13	4.9	16.3	7.4	<1.0	23	NM	NM	NM	NM	NM	NM
MW-30D	5/23/2006		2420	84.3	72.9	<150	<50.0	<50.0	241	NM	NM	NM	NM	NM	NM
MW-30D	10/24/2006		2080	102	83	88	23.3 J	<25.0	233	NM	NM	NM	NM	NM	NM
MW-30D	4/30/2007		1750	71.9	70.3	71.4	26.8	<1.0	216	NM	NM	NM	NM	NM	NM
MW-30D	10/1/2007		1450	60	53.1	55.4	17.8	<10	153	NM	NM	NM	NM	NM	NM
MW-30D	5/10/2008		2170	107	117	105	39.4	<10	312	NM	NM	NM	NM	NM	NM
MW-30D	10/28/2008		2040	105	139	80.2	24	<2.0	186	NM	NM	NM	NM	NM	NM
MW-30D	10/18/2011		1220	81.4	94	67.7	20.2	<1.0	129	0.86	-157	8.03	724	7.96	NM
MW-30D	4/17/2012		1260	52.2	54.7	44.5	24.4	<10.0	NA	3.60	8.9	7.5	973	6.95	NM
MW-30D	10/2/2012		1460	60.2	62.2	58.7	18.3	<10.0	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/7/2013		1350	57.6	47.7	49.2	15.2	<10.0	128	0.31	91.5	8.5	866	7	NM
MW-30D	10/2/2013		1700	88.6	62.6	64.3J	<25.1J	<9.3	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/22/2014		1930	107	74.3	63.1	<22.6	<10	190	NM	NM	NM	NM	NM	NM
MW-30D	10/30/2014		2160	120	85.8	77.3	<18.2J	<9.7	161	NM	NM	NM	NM	NM	NM
MW-30D	5/5/2015		2120	113	85.4	82.3	24.1J	<12.1	231	NM	NM	NM	NM	NM	NM
MW-30D	10/7/2015		2560	118	80.7	93.3J	<41.7	<24.2	229	NM	NM	NM	NM	NM	NM
MW-30D	5/24/2016		2180	90.7	62.7	75.2	16.3J	<4.8	203	NM	NM	NM	NM	NM	NM
MW-30D	10/6/2016		2120	81.2	54.9	65.9	<18.1	<9.7	178	NM	NM	NM	NM	NM	NM
MW-30D	6/14/2017		2070	80.1	58.1	70.4	<20.8	25.3	196	NM	NM	NM	NM	NM	NM
MW-30D	10/4/2017		1850	70.9	46.6	64.3	13.3	17.9	202	NM	NM	NM	NM	NM	NM
MW-30D	6/27/2018		1930	72.7	59.2	62.4	9.4J	<8.0	200	NM	NM	NM	NM	NM	NM
MW-30D	10/11/2018		1830	68.8	52.3	57.5	<16.8	<8.0	168	NM	NM	NM	NM	NM	NM
MW-30DD	6/2/1995		0.5	<0.6	<0.8	<1.3	<0.7	<1.0	<1.6	NM	NM	NM	NM	NM	NM
MW-30DD	8/18/1995		1.2	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	11/15/1995		5.2	7.1	1.6	18	13.2	<4.0	2.9	NM	NM	NM	NM	NM	NM
MW-30DD	4/22/1996		4.1	<1.0	<1.0	<2.0	<1.0	<4.0	<0.31	NM	NM	NM	NM	NM	NM
MW-30DD	10/8/1996		33	2	3	6	3	3	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/29/1997		430	35	26	49	27.5	26	18	NM	NM	NM	NM	NM	NM
MW-30DD	11/5/1997		660	45	28	56	35	41	NA	0.50	001	8.1	500	7.01	NM

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Former Amoco Terminal
Superior, Wisconsin

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			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-30DD	11/3/1998		140	7.6	5.7	8.3	4.3	78	NA	1.67	NM	6.3	583	8.55	NM
MW-30DD	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	1.86	NM	6	NM	NM	NM
MW-30DD	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/26/2000		0.444	<0.40	<0.50	<0.55	<0.40	<0.30	NA	0.10	032	NM	NM	NM	NM
MW-30DD	10/10/2000		1.44	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.20	113	NM	NM	NM	2.00
MW-30DD	10/23/2001		64	6	3.9	6.9	3.54	0.21	NA	1.30	126	NM	NM	NM	2.00
MW-30DD	4/23/2002		0.84	0.37	0.34	1.0	0.28	<0.16	<1.1	0.64	-137	NM	NM	NM	2.00
MW-30DD	11/7/2002		0.81	0.5	0.49	1.0	0.6	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-30DD	4/15/2003		14	4.6	1.4	3.2	<1.0	<4.0	NA	0.20	146	NM	NM	NM	3.00
MW-30DD	10/21/2003		15	1.9	<1.0	<3.0	<1.0	<4.0	NA	0.16	-153	NM	NM	NM	NM
MW-30DD	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.94	015	NM	NM	NM	NM
MW-30DD	11/17/2004		15.1	1.4	<1.0	<3.0	<1.0	<1.0	<1.0	0.80	-183	NM	NM	NM	6.00
MW-30DD	11/18/2004	D	73.7	1.2	<1.0	<3.0	1.3	8.6	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/20/2005		17.5	2.2	1.5	<3.0	<1.0	<1.0	5.6	0.2	-001	NM	NM	NM	NM
MW-30DD	4/20/2005	D	18.2	2.2	1.1	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/11/2005		1700	86	66	68	16 J	<25	170	NM	NM	NM	NM	NM	NM
MW-30DD	10/11/2005	D	1400	76	59	59	25.5 J	<10	140	NM	NM	NM	NM	NM	NM
MW-30DD	5/23/2006		7.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-30DD	5/23/2006	D	10.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/24/2006		90.9	4.8	2.4	6.1	2.26 J	<1.0	15.4	NM	NM	NM	NM	NM	NM
MW-30DD	10/24/2006	D	90.2	4.9	2.3	5.7	2.03 J	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/30/2007		2.9	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-30DD	4/30/2007	D	2.7	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/1/2007		2.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
MW-30DD	5/10/2008		78.0	7.3	1.8	6.6	2.7	<1.0	12.9	NM	NM	NM	NM	NM	NM
MW-30DD	5/10/2008	D	74.8	7.1	1.8	6.4	2.8	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/28/2008		41.0	3.8	2.2	3.7	<1.0	<1.0	5.5	NM	NM	NM	NM	NM	NM
MW-30DD	10/18/2011		50.2	2.6	3.3	7.1	3.5	<1.0	5.9	0.64	-255	7.22	735	8.4	NM
MW-30DD	4/17/2012		<1.0	<1.0	<1.0	<3.0	1.0	<1.0	NA	0.18	-091	7.3	947	7.65	NM
MW-30DD	4/17/2012	D	<1.0	<1.0	<1.0	<3.0	1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/2/2012		4.2	<1.0	<1.0	<3.0	1.0	<1.0	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-30DD	5/7/2013		1.1	<1.0	<1.0	<3.0	1.0	<1.0	<4.0	0.07	-39.5	8.9	871	7.62	NM
MW-30DD	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.37	<0.37	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-30DD	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-30DD	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-30DD	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-30DD	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-30DDD	6/27/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-30DDD	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
P-31D	9/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	12.5	NA	NM	NM	NM	NM	NM	NM
MW-33	8/6/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-33	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-33	1/8/1992	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM
MW-33	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-33	10/14/1992	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-33	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-33	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-33	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-33	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-33	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-33	11/15/1995		<1.0	<1.0	<1.0	4.8	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-33	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NM	NM	NM	NM	NM	NM
MW-33	10/8/1996		0.6	<2	<2	<3	<2.0	<2	NA	NM	NM	NM	NM	NM	NM
MW-33	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-33	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	2.40	023	8	528	7.57	NM
MW-33	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	5.36	NM	6.8	643	7.21	NM
MW-33	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	5.05	NM	6.2	NM	NM	NM
MW-33	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	3.50	NM	8	NM	NM	NM

Table 5
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Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-33	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	3.30	123	NM	NM	NM	NM
MW-33	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	5.00	259	NM	NM	NM	0.40
MW-33	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	3.00	159	NM	NM	NM	NM
MW-33	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	6.50	138	NM	NM	NM	0.10
MW-33	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	3.46	189	NM	NM	NM	0.40
MW-33	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-33	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.70	202	NM	NM	NM	0.02
MW-33	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	4.30	161	NM	NM	NM	NM
MW-33	4/20/2004		<1.0	<1.0	<1.0	<3.0	2.2	<4.0	NA	3.23	232	NM	NM	NM	NM
MW-33	11/17/2004		<1.0	<1.0	<1.0	<3.0	2.2	<4.0	NA	3.20	32	NM	NM	NM	0.00
MW-33	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.0	213	NM	NM	NM	NM
MW-33	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.60	2.2	NM	491	7.88	0.1
MW-33	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	34.70	132.1	NM	NM	7.27	1.0
MW-33	4/30/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	5.02	58.8	NM	NM	7.30	0.0
MW-33	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	8.80	19.4	NM	NM	7.37	1.0
MW-33	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.97	184.3	NM	NM	6.60	1.0
MW-33	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.63	88.4	NM	NM	7.25	0.0
MW-33	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-33	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-33	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-34	8/6/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-34	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-34	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-34	10/14/1992	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-34	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-34	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.7	NM	NM	NM	NM	NM	NM
MW-34	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-34	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-34	4/6/1995		<1.0	<1.0	<1.0	<2.0	2.7	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-34	11/15/1995		<1.0	9.2	5.1	18	7.4	<4.0	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-34	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NM	NM	NM	NM	NM	NM
MW-34	10/8/1996		0.6	<2	<2	<3	<2.0	<2	NA	NM	NM	NM	NM	NM	NM
MW-34	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NM	NM	NM	NM	NM	NM
MW-34	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	6.2	NA	1.40	057	7.4	657	7.54	NM
MW-34	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	3.54	NM	6.7	816	7.18	NM
MW-34	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	4.44	NM	6.7	NM	NM	NM
MW-34	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-34	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	2.00	153	NM	NM	NM	NM
MW-34	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	4.20	193	NM	NM	NM	0.20
MW-34	10/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	10.70	074	NM	NM	NM	0.10
MW-34	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	2.46	141	NM	NM	NM	0.10
MW-34	11/7/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM
MW-34	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.70	059	NM	NM	NM	0.0
MW-34	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	3.60	-055	NM	NM	NM	NM
MW-34	4/20/2004		<1.0	<1.0	<1.0	<3.0	2.1	<4.0	NA	1.67	164	NM	NM	NM	NM
MW-34	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.50	078	NM	NM	NM	0.10
MW-34	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.1	171	NM	NM	NM	NM
MW-34	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-34	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	10/20/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.56	-81	7.28	690	8.3	NM
MW-34	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-34	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM
MW-34	10/2/2013	D	<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-34	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-34	10/29/2014	D	<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-34	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
P-34D	9/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-35	8/6/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-35	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-35	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM
MW-35	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-35	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM
MW-35	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-35	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-35	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM
MW-35	11/15/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-35	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NM	NM	NM	NM	NM	NM
MW-35	10/8/1996		<0.5	<2	<2	<3	<2.0	<2	NA	NM	NM	NM	NM	NM	NM
MW-35	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NM	NM	NM	NM	NM	NM
MW-35	11/5/1997		2.3	2.3	2.4	6.8	5.2	9.5	NA	2.10	065	2.9	1157	6.73	NM
MW-35	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	1.26	NM	7.7	1340	6.52	NM
MW-35	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	3.49	NM	6.7	NM	NM	NM
MW-35	8/17/1999		<1.0	<1.0	1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM
MW-35	4/26/2000		<0.15	<0.40	<0.50	0.215	0.6	<0.3	NA	0.10	191	NM	NM	NM	NM
MW-35	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.90	280	NM	NM	NM	0.40
MW-35	4/24/2001		<0.13	<0.20	<0.22	0.340	<0.29	<0.16	NA	2.60	178	NM	NM	NM	NM
MW-35	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	2.90	-018	NM	NM	NM	0.00
MW-35	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	3.73	164	NM	NM	NM	0.30
MW-35	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	NA	NA	NA	NA	NA
MW-35	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.50	191	NA	NA	NA	0.07
MW-35	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.60	055	NA	NA	NA	NM
MW-35	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.68	224	NA	NA	NA	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-35	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.30	153	NA	NA	NA	0.00
MW-35	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.2	120	NA	NA	NA	NM
MW-35	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.9	-083	NA	1055	7.02	0.2
MW-35	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.6	-066	NM	1026	7.40	0.1
MW-35	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	33	229	NM	NM	6.60	0.0
MW-35	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	10.52	184.5	NM	NM	6.73	0.0
MW-35	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.15	056.5	NM	NM	6.73	1.0
MW-35	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	5.15	256.4	NM	NM	6.32	1.0
MW-35	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.95	163.0	NM	NM	6.42	1.0
MW-35	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-35	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.96	166.0	NM	NM	6.96	NM
MW-35	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-35	10/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.81	56	7.88	1064	7.76	NM
MW-35	10/3/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-35	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM
MW-35	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-35	10/6/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-47	10/4/2016		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MWT-6	10/23/03		Not sampled due to presence of product												
MWT-6	04/19/04		Not sampled due to presence of product												
MWT-6	11/15/04		Not sampled due to presence of product												
MWT-6	04/18/05		Not sampled due to presence of product												
MWT-6	10/12/2005		340	480	390	1380	680	<5.0	NA	NM	NM	NM	NM	NM	NM
MWT-6	05/23/06		Not sampled												
MWT-6	10/16/06		Not sampled due to presence of product												
MWT-6	04/23/07		Not sampled due to presence of product												
MWT-6	09/25/07		Not sampled due to presence of product												
MWT-6	10/30/08		278	208	138	1730	867	<5.0	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/03/12		63	31.6	75	548	469	<2.0	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MWT-6	10/2/2013		49.8	12.80	71.6	325	326	1.7	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/30/2014		52.1	4.4	47.6	247	428	2.0	135	NM	NM	NM	NM	NM	NM
MWT-6	10/6/2015		59.8	14.2	63.0	205	273	2.2	95.8	NM	NM	NM	NM	NM	NM
MWT-2S	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.40	139	NM	NM	NM	NM
MWT-2S	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.14	193	NM	NM	NM	NM
MWT-2S	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.00	140	NM	NM	NM	0.10
MWT-2S	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	2.7	209	NM	NM	NM	NM
MWT-2S	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	5.63	37.5	NM	617	7.85	0.1
MWT-2S	10/25/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	14.8	146.2	NM	NM	7.16	1.0
MWT-2S	5/1/2007		4.1	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	4.39	80.9	NM	NM	7.18	1.0
MWT-2S	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	1.95	18.1	NM	NM	7.36	1.0
MWT-2S	5/10/2008		6.2	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	1.85	248.4	NM	NM	6.43	1.0
MWT-2S	10/28/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	2.27	95.9	NM	NM	7.04	0.0
MWT-2S	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.33	<0.51	NM	NM	NM	NM	NM	NM
MWT-2D	10/21/2003		1500	67	11	87	46	<4.0	NA	0.60	047	NM	NM	NM	NM
MWT-2D	4/13/2004		85	7.4	1.0	<3.0	6.0	<4.0	NA	4.04	177	NM	NM	NM	NM
MWT-2D	11/17/2004		1820	92.3	32.0	132	74.2	<1.0	83.2	2.40	127	NM	NM	NM	0.00
MWT-2D	11/18/2004	D	1720	99.8	29.0	132	70.2	67.8	NA	NM	NM	NM	NM	NM	NM
MWT-2D	4/20/2005		4510	153	158	340	182.8	<1.0	226	0.80	231	NM	NM	NM	NM
MWT-2D	10/11/2005		4700	220	120	300	179	<50	220	1.35	-6.2	NM	828	7.94	0.1
MWT-2D	10/25/2006		5740	273	184	310	187.6	<10.0	245	NM	NM	NM	NM	NM	NM
MWT-2D	5/1/2007		4790	258	150	337	185.2	<25.0	241	0.52	-116.4	NM	NM	7.06	0.00
MWT-2D	9/29/2007		3910	215	55.3	305	154.9	<25.0	NA	0.16	-4.6	NM	NM	7.18	0.00
MWT-2D	5/10/2008		5060	227	43.6	252	105.3	<25.0	<100	0.55	77.5	NM	NM	6.53	1.00
MWT-2D	10/28/2008		5080	214	41.0	250	102.7	<5.0	72.3	0.79	-36.4	NM	NM	6.96	0.00
MWT-2D	10/17/2011		2800	174	75.0	261	138.5	<1.0	129	0.65	-99	7.33	922	7.94	NM
MWT-2D	4/17/2012		3230	159	137	226	118.7	<25.0	NA	0.31	54.3	7.2	1267	7.19	NM
MWT-2D	10/2/2012		4310	224	275	342	172.7	<20.0	NA	NM	NM	NM	NM	NM	NM
MWT-2D	5/7/2013		4570	211	264	350	175.9	<50.0	<200	0.58	168.3	7.7	1195	6.97	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MWT-2D	5/7/2013	D	4540	222	257	343	173.7	<50.0	<200	0.58	168.3	7.7	1195	6.97	NM
MWT-2D	10/3/2013		3120	173	195	277	122.4	30.3J	NA	NM	NM	NM	NM	NM	NM
MWT-2D	5/22/2014		3450	219	247	320	209.4	<25.0	347	NM	NM	NM	NM	NM	NM
MWT-2D	10/30/2014		3400	201	240	366	169.7	28.9J	174	NM	NM	NM	NM	NM	NM
MWT-2D	5/5/2015		3720	224	277	377	172.2	46.3J	180	NM	NM	NM	NM	NM	NM
MWT-2D	10/7/2015		3740	232	285	393	199.9	43.1J	215	NM	NM	NM	NM	NM	NM
MWT-2D	5/25/2016		3670	246	331	398	203.0	92.5	196	NM	NM	NM	NM	NM	NM
MWT-2D	10/6/2016		3590	228	319	352	193.3	92.8	163	NM	NM	NM	NM	NM	NM
MWT-2D	6/14/2017		3440	214	331	374	191.2	115	167	NM	NM	NM	NM	NM	NM
MWT-2D	10/4/2016		3300	194	303	344	181.9	119	160	NM	NM	NM	NM	NM	NM
MWT-2D	6/27/2018		2970	171	287	312	163.6	190	133	NM	NM	NM	NM	NM	NM
MWT-2D	6/27/2018	D	3290	185	322	354	186.5	212	157	NM	NM	NM	NM	NM	NM
MWT-2D	10/12/2018		3100	163	286	303.5	149.4	129	127	NM	NM	NM	NM	NM	NM
MWT-2D	10/12/2018	D	3210	170	303	326.4J	161.3	134.0	135	NM	NM	NM	NM	NM	NM
RW-3	11/17/2004		1950	57.4	87.6	86.6	34.7	<5.0	27.6	NM	NM	NM	NM	NM	NM
RW-3	4/19/2005		741	5.6	16.5	4.5	3.3	<1.0	<1.0	0.8	28	NM	NM	NM	NM
RW-3	10/12/2005		8800	210	360	258 J	86 J	<120	63 J	NM	NM	NM	NM	NM	NM
RW-3	5/23/2006		5820	601	309	462	70.7	102	36.3	NM	NM	NM	NM	NM	NM
RW-3	10/23/2006		2320	66.1	123	85.7	34.6	<10.0	<10.0	NM	NM	NM	NM	NM	NM
RW-3	4/29/2007		2830	57.2	220	118	21.5	<20.0	<20.0	NM	NM	NM	NM	NM	NM
RW-3	10/1/2007		5120	123	348	185	55.2	35.9	34.1	NM	NM	NM	NM	NM	NM
RW-3	5/10/2008		2000	38.7	130	54	19.6	<10.0	<40.0	NM	NM	NM	NM	NM	NM
RW-3	10/28/2008		4680	52	244	108	22.1	<20	82.4	NM	NM	NM	NM	NM	NM
RW-3	10/27/2010		6540	464	698	981	166.2	<50	<200	NM	NM	NM	NM	NM	NM
RW-3	10/13/2011		4560	131	449	625	125.2	13.8	40.5	2.02	-188	9.6	1243	7.95	NM
RW-3	4/17/2012		4760	89.6	677	625	169.5	<50.0	NA	4.23	-49.4	9.2	1530	7.52	NM
RW-3	10/3/2012		4670	<50.0	488	327	<50.0	309.0	NA	NM	NM	NM	NM	NM	NM
RW-3	10/3/2013		5280	66.3	412	220	62.1J	1200.0	NA	NM	NM	NM	NM	NM	NM
RW-3	10/30/2014		4720	45.8	364	81.3J	51.5J	869	53.6	NM	NM	NM	NM	NM	NM
RW-3	10/7/2015		4720	78.2	498	529	128.2	588	75.3	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
RW-3	10/6/2016		4560	180	607	601	167.6	455	104.0	NM	NM	NM	NM	NM	NM
RW-7	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	1.1	NM	NM	NM	NM	NM	NM
RW-7	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	0.4	-040	NM	NM	NM	NM
RW-7	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM
RW-7	5/23/2006		<1.0	<1.0	<1.0	<3.0	1.3	<1.0	7.8	NM	NM	NM	NM	NM	NM
RW-7	10/23/2006		<1.0	<1.0	1.3	<3.0	1.6	<1.0	3.4	NM	NM	NM	NM	NM	NM
RW-7	4/29/2007		NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM
RW-7	6/26/2007		Abandoned												
EW-06	7/28/2011		9440	9600	772	5200	1078	<50.0	396	0.32	-184	9.48	995	7.54	NM
EW-06	10/19/2011		12500	9800	1090	6260	1229	58.4	353	0.23	-196	9.27	988	7.83	NM
EW-06	4/18/2012		10400	1920	662	3260	991	382	NA	0.69	-4.6	9.4	1501	6.92	NM
EW-06	5/7/2013		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
EW-07	7/28/2011		258	857	490	2350	591	<10.0	159	0.57	-214	9.95	955	7.66	NM
EW-07	10/19/2011		226	646	307	1330	343.3	<2.0	87.9	0.67	-268	8.97	926	7.89	NM
EW-07	4/18/2012		615	796	247	969	183.9	<5.0	NA	1.46	-54.7	8.9	1247	7.01	NM
EW-07	5/7/2013		385	270	334	2240	1254.0	<25.0	199	0.5	-24.9	9.9	1181	6.85	NM
EW-08	7/28/2011		82.0	1.9	13.4	25	16.8	<1.0	9.2	0.18	-201	9.11	804	7.58	NM
EW-08	7/28/2011	D	87.2	2.0	14.2	26.3	17.3	<1.0	9.7	0.25	-190	9.46	913	7.87	NM
EW-08	10/19/2011		234	7.5	53.3	116	98.7	<1.0	45.1	NM	NM	NM	NM	NM	NM
EW-08	10/19/2011	D	242	8.0	54.3	121	98.2	<1.0	41.2	NM	NM	NM	NM	NM	NM
EW-08	4/18/2012		466	11.4	193	444	372.3	<5.0	NA	0.86	-31.6	9.3	1187	6.6	NM
EW-08	4/18/2012	D	448	12.1	190	435	365.4	<5.0	NA	NM	NM	NM	NM	NM	NM
EW-08	5/7/2013		574	16.7	292	745	615	<5.0	220	0.54	34.4	10	1104	6.74	NM
EW-08	5/21/2014		4.1	<1.0	1.1	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
EW-08	10/30/2014		219	3.7	101	122	106	<0.97	91.4	NM	NM	NM	NM	NM	NM
EW-08	5/5/2015		578	15.8	281	517	395.1	<2.4	241	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--
EW-08	10/6/2015		57.0	0.40J	16.1	11.3	7.7	<0.48	11.2	NM	NM	NM	NM	NM	NM
EW-08	10/5/2016		407	9.5	118	141	165.6	<1.9	103	NM	NM	NM	NM	NM	NM
EW-09	7/28/2011		374	18.7	215	436	317.4	<2.0	188	0.16	-198	8.04	920	7.52	NM
EW-09	10/19/2011		231	11.1	132	304	268.1	<2.0	135	0.13	-181	8.05	954	7.88	NM
EW-09	4/18/2012		74.2	2.8	25.0	49.2	60.7	<1.0	NA	0.66	-21.1	7.6	1228	7.26	NM
EW-09	5/7/2013		34.1	2.6	24.2	19.4	31.2	<1.0	5.0	0.56	75.5	8.2	1042	7.05	NM
EW-09	5/21/2014		53.4	1.8	11.9	19.7	10.1	<1.0	6.3	NM	NM	NM	NM	NM	NM
EW-09	5/4/2015		21.0	1.0	3.0	2.2J	<1.31J	0.8J	0.75J	NM	NM	NM	NM	NM	NM
EW-09	10/5/2016		28.1	2.2	25.5	40.8	38.2	<0.48	26.0	NM	NM	NM	NM	NM	NM
EW-10	7/28/2011		3430	<20.0	<20.0	<60.0	<20.0	<20.0	<80.0	2.28	-143	8.93	1190	7.73	NM
EW-10	10/19/2011		3970	<1.0	2.6	<3.0	<1.0	<1.0	<4.0	0.32	-162	8.45	1130	7.99	NM
EW-10	4/18/2012		1510	<1.0	1.0	<3.0	<1.0	<1.0	NA	1.06	91.4	7.6	1437	7.17	NM
EW-10	5/7/2013		18.3	<1.0	6.0	44.4	48.9	<1.0	4.9	0.93	167.1	8.2	1225	7	NM
EW-10	5/7/2013	D	16.0	<1.0	4.4	34.0	38.7	<1.0	<4.0	0.93	167.1	8.2	1225	7	NM
EW-10	5/21/2014		18.6	<1.0	<1.0	<3.0	<2.0	1.3	<4.0	NM	NM	NM	NM	NM	NM
EW-10	5/4/2015		7.2	<0.39	<0.39	<1.2	<0.84	2.0	<0.42	NM	NM	NM	NM	NM	NM
EW-10	10/5/2016		1.4	<0.39	<0.39	<1.2	<0.84	2.6	<0.42	NM	NM	NM	NM	NM	NM
EW-11	7/28/2011		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP

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Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--

Notes:
µg/L = micrograms per liter (equivalent to parts per billion)
D = Duplicate sample
1,2-DCA = 1,2-Dichloroethane
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
FP = The well was not sampled due to the presence of free product
THC = Total hydrocarbons or total petroleum hydrocarbons as gasoline
MTBE = Methyl Tertiary Butyl Ether
NA = Not Analyzed for indicated parameter
NM = Not Measured
NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
NS = Not Sampled on indicated date
TMBs = Trimethylbenzenes
"BOLD TYPE" = The indicated concentration exceeds the NR 140 ES
J = Laboratory flag. Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Note: Bio-Parameters for the 4/29/07 - 4/30/07 sampling event were taken on 4/24/07

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
GP-36S	6/20/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NM	NM	NM	NM	NM	NM	NM
MW-17	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	8/29/1990	D	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	1/31/1991	D	<1.0	<1.0	<1.0	NA	NA	NA	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	7/10/1991	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	1/8/1992	D	<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/14/1992	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM	NM
MW-17	4/6/1995		<1.0	<1.0	<1.0	<2.0	1.1	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-17	11/15/1995		<1.0	<1.0	<1.0	3.7	2.7	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/8/1996		<0.5	<2	<2	<3	2.0	<2	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/29/1997		NA	NA	NA	NA	NA	NA	<1	NM	NM	NM	NM	NM	NM	NM
MW-17	11/5/1997		1.8	<1.0	<1.0	<2.0	<1.0	<4.0	NA	2.90	037	7.9	626	7.49	NM	
MW-17	11/5/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	4.10	NM	8	775	7.07	NM	
MW-17	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	6.35	NM	7	NM	NM	NM	
MW-17	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	4.10	NM	9.4	NM	NM	NM	
MW-17	4/26/2000		<0.15	0.523	0.653	1.858	1.12	<0.30	NA	4.20	153	NM	NM	NM	NM	
MW-17	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	3.90	200	NM	NM	NM	0.40	
MW-17	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	5.50	157	NM	NM	NM	NM	
MW-17	10/23/2001		<0.13	<0.20	<0.22	0.47	0.32	<0.16	NA	10.00	156	NM	NM	NM	2.00	
MW-17	10/23/2001	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	NM	NM	NM	NM	

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-17	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	6.91	277	NM	NM	NM	NM	0.30
MW-17	4/23/2002	D	<0.13	0.25	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	11/7/2002		<0.13	0.25	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM	NM
MW-17	11/7/2002	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM	NM
MW-17	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	3.60	242	NM	NM	NM	NM	0.0
MW-17	4/15/2003	D	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	6.40	113	NM	NM	NM	NM	NM
MW-17	10/21/2003	D	<1.0	<1.0	<1.0	<3.0	1.2	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/20/2004		<1.0	<1.0	<1.0	<3.0	1.2	<4.0	NA	3.70	215	NM	NM	NM	NM	NM
MW-17	4/20/2004	D	4.0	3.9	1.9	4.8	1.6	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	5.80	128	NM	NM	NM	NM	0.00
MW-17	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	5.7	181	NM	NM	NM	NM	NM
MW-17	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	6.27	31.1	NM	547	7.85	0.1	
MW-17	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.1	039	NM	562	7.62	0.1	
MW-17	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	33.4	107	NM	NM	7.17	0.0	
MW-17	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	7.69	10.7	NM	NM	7.44	1.0	
MW-17	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.25	-13.9	NM	NM	7.43	0.0	
MW-17	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.2	114.8	NM	NM	6.74	1.0	
MW-17	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	5.89	22	NM	NM	7.19	0.0	
MW-17	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-17	10/17/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.61	-68	8.58	562	8.28	NM	
MW-17	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-17	5/7/2013		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	6.29	357.2	8.7	635.9	7.08	NM	
MW-17	7/30/2014		<0.50	<0.50	<0.50	<1.5	<1.0	<0.17	<2.5	NM	NM	NM	NM	NM	NM	
MW-17	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-17	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-17	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-31	7/11/1989		3.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NM	NM	NM	NM	NM	
MW-31	8/29/1990		<2.0	32	5.0	29	NA	NA	NA	NM	NM	NM	NM	NM	NM	
MW-31	1/31/1991		<1.0	3.0	<1.0	3.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	
MW-31	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-31	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	NM
MW-31	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NM	NM	NM	NM	NM
MW-31	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM	NM
MW-31	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	NM	NM	NM	NM	NM
MW-31	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-31	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-31	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-31	11/15/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-31	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-31	10/8/1996		<0.5	<2	<2	<3.0	<2.0	<2	NA	NM	NM	NM	NM	NM	NM	NM
MW-31	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	NM	NM	NM	NM	NM
MW-31	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	0.60	022	7.8	774	7.39	NM	NM
MW-31	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	4.35	NM	6.1	853	7.41	NM	NM
MW-31	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	2.33	NM	6.4	NM	NM	NM	NM
MW-31	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-31	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	0.20	124	NM	NM	NM	NM	NM
MW-31	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.30	214	NM	NM	NM	NM	0.40
MW-31	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	0.60	218	NM	NM	NM	NM	NM
MW-31	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	0.40	001	NM	NM	NM	NM	NM
MW-31	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	1.27	126	NM	NM	NM	NM	0.40
MW-31	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NM	NM	NM	NM	NM
MW-31	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.30	230	NM	NM	NM	NM	0.12
MW-31	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.50	004	NM	NM	NM	NM	NM
MW-31	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.52	219	NM	NM	NM	NM	NM
MW-31	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.00	149	NM	NM	NM	NM	0.00
MW-31	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.1	89	NM	NM	NM	NM	NM
MW-31	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.10	20.9	NM	747	7.80	0.1	NM
MW-31	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.3	033	NM	726	7.65	0.1	NM
MW-31	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.1	124	NM	NM	7.13	1.0	NM
MW-31	4/30/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.97	-45.6	NM	NM	7.25	1.0	NM
MW-31	10/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.63	43.8	NM	NM	7.34	1.0	NM
MW-31	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.03	151.2	NM	NM	6.68	1.0	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-31	10/28/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.81	42.1	NM	NM	7.06	0.0	
MW-31	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.06	16	NM	NM	7.60	NM	
MW-31	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-31	10/17/2011		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	2.57	-101	7.83	746	8.18	NM	
MW-31	10/2/2012		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-31	5/7/2013		<1.0	<1.0	<1.0	<3.1	<1.0	<2.0	<4.0	1.29	356.4	8.4	827	6.87	NM	
MW-31	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
MW-31	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-31	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-32			08/91 to present - The well was not sampled due to the presence of free product.													
MW-36S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.35	-9	9.54	809	7.95	NM	
MW-36S	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.1	-48	10.0	852	8.15	NM	
MW-36S	4/18/2012		1.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.75	69.4	6.2	1200	7.43	NM	
MW-36S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	1.09	236.0	7.3	964	6.93	NM	
MW-36S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
MW-36S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-36S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-36S	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
GP-36D	6/21/2011		2220	30.6	<10	<30	<10	<10	<40	NM	NM	NM	NM	NM	NM	
MW-36D	7/26/2011		2290	48.2	8.7	63.3	26.6	<1.0	<4.0	0.17	-244	9.42	951	7.72	NM	
MW-36D	10/18/2011		855	23.7	2.5	37.2	16.1	<1.0	NA	0.34	-88	7.48	697	8.31	NM	
MW-36D (Dup)	10/18/2011		844	23.0	2.3	36.3	15.5	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-36D	4/18/2012		2270	65.7	14.0	102	49.2	<1.0	NA	0.51	81.7	7.8	1303	7.15	NM	
MW-36D (Dup)	4/18/2012		2240	65.0	13.9	101	49.4	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-36D	10/1/2012		2070	51.7	11.1	75.8	23.2	<10.0	NA	NM	NM	NM	NM	NM	NM	
MW-36D (Dup)	10/1/2012		2080	51.9	11.2	77.2	34.7	<10.0	NA	NM	NM	NM	NM	NM	NM	
MW-36D	5/7/2013		1390	28.7	<10.0	<30.0	<20.1	<10.0	<40.0	0.40	180.8	9	1187	7.13	NM	
MW-36D	10/2/2013		2040	49.7	11.3J	54.9J	23.5J	<7.4	NA	NM	NM	NM	NM	NM	NM	
MW-36D	5/22/2014		1590	34.2	<10.0	33.7	<20.4	<10.0	<40.0	NM	NM	NM	NM	NM	NM	
MW-36D	10/30/2014		1840	34.9	9.2J	28.2J	<19.6J	<9.7	<8.5	NM	NM	NM	NM	NM	NM	

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-36D	5/5/2015		1660	30.5	8.3J	<24.9	<16.7	<9.7	<8.5	NM	NM	NM	NM	NM	NM
MW-36D	10/7/2015		1840	31.1	<9.8	<31.2	<20.8	<12.1	<10.6	NM	NM	NM	NM	NM	NM
MW-36D	5/25/2016		1970	37.8	10.2J	<24.9	<16.7	<9.7	<8.5	NM	NM	NM	NM	NM	NM
MW-36D	10/6/2016		1920	35.4	9.1J	<12.5	<8.4	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MW-36D	6/14/2017		1920	39.4	11.4J	<25.0	<16.7	<9.7	<8.5	NM	NM	NM	NM	NM	NM
MW-36D	10/4/2017		1740	33.1	10.0	7.3	3.1	4.0	<2.1	NM	NM	NM	NM	NM	NM
MW-36D	6/27/2018		1820	34.0	10.4J	<19.4	<13.2	<6.4	<10.0	NM	NM	NM	NM	NM	NM
MW-36D	10/11/2018		1690	37.3J	11.1J	<24.3	<16.8	<8.0	<12.6	NM	NM	NM	NM	NM	NM
MW-36DD	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-36DD	4/18/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.52	84.1	7.4	992	7.67	NM
MW-36DD	10/1/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-36DD	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.32	228.1	7.7	558.7	7.5	NM
MW-36DD	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM
MW-36DD	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-36DD	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-36DD	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-36DD	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-36DD	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-36DD	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-36DD	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-36DD	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
GP-37S	6/21/2011		4.4	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
GP-37D	6/21/2011		3720	87.3	22.1	79.6	18.4	<10	<40	NM	NM	NM	NM	NM	NM
MW-37S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.88	-87	8.8	517	8.00	NM
MW-37S	10/18/2011		2.2	<1.0	<1.0	<3.1	<1.0	<1.0	NA	0.43	-90	9.46	708	8.16	NM
MW-37S	4/18/2012		1.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.42	86.2	6.2	625	7.74	NM
MW-37S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	2.1	234.0	6.1	558.7	7.27	NM
MW-37S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-37S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-37S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-37S	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-37D	7/26/2011		649	17.20	5.90	14.6	<1.0	<1.0	<4.0	0.22	-134	8.65	927	7.89	NM
MW-37D	10/18/2011		290	8.80	2.60	7	<1.0	<1.0	NA	0.4	-79	7.67	968	8.24	NM
MW-37D	4/18/2012		149	4.40	1.50	3.7	<1.0	<1.0	NA	0.55	53.4	7.8	1200	7.39	NM
MW-37D	10/2/2012		871	26.00	8.70	19.3	<5.0	<5.0	NA	NM	NM	NM	NM	NM	NM
MW-37D	5/7/2013		365.0	10.5	<5.0	<15.0	<10.0	<5.0	<20.0	0.48	136.5	8.8	1137	7.30	NM
MW-37D	10/2/2013		1960	63.3	21.3	45.3J	<13.7	<7.4	NA	NM	NM	NM	NM	NM	NM
MW-37D	5/22/2014		2230	73.1	23.9	48.3	<10.0	<5.0	<20.0	NM	NM	NM	NM	NM	NM
MW-37D	10/30/2014		2240	70.4	21.6J	42.4J	<20.8	<12.1	10.8J	NM	NM	NM	NM	NM	NM
MW-37D	5/5/2015		2800	96.8	31.7	65.8J	20.8	<12.1	<10.6	NM	NM	NM	NM	NM	NM
MW-37D	10/7/2015		3090	105	32.1J	73.7J	<33.3	<19.4	<17.0	NM	NM	NM	NM	NM	NM
MW-37D	5/25/2016		2990	108	36.3	84.4	13.0J	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	5/25/2016	D	2720	96.9	32.0	75.0	11.4J	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MW-37D	10/6/2016		3020	112	35.2	80.3	<20.8	<12.1	<10.6	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	10/6/2016	D	3380	126	40.1	90.5	<16.7	<9.7	<8.5	NM	NM	NM	NM	NM	NM
MW-37D	6/14/2017		3020	110	35.4J	71.5J	<41.7	<24.2	<21.2	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	6/14/2017	D	3050	112	34.7J	71.5J	<41.7	<24.2	<21.2	NM	NM	NM	NM	NM	NM
MW-37D	10/4/2017		2730	101	31.9	61.5	<20.8	<12.1	<10.6	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	10/4/2017	D	2730	100	31.8	60.5	<20.8	<12.1	<10.6	NM	NM	NM	NM	NM	NM
MW-37D	6/27/2018		2830	98	31.5	58.5	<16.8	<8.0	<12.6	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	6/27/2018	D	2680	91	28.2	53.2J	<16.8	<8.0	<12.6	NM	NM	NM	NM	NM	NM
MW-37D	10/12/2018		2450	84.1	27.9	52.5J	<16.8	<8.0	<12.6	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	10/12/2018	D	2050	71	21.7J	42.2J	<16.8	<8.0	<12.6	NM	NM	NM	NM	NM	NM
MW-37DD	10/18/2011		6.9	<1.0	<1.0	<3.0	1.1	<1.0	<4.0	0.49	-253	7.56	766	8.39	NM
MW-37DD	4/18/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.87	19.2	7.7	1102	7.59	NM
MW-37DD	10/1/2012		<1.0	<1.0	<1.0	<3.0	1.2	<1.0	NA	NM	NM	NM	NM	NM	NM
MW-37DD	5/6/2013		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.42	168.5	7.6	1028	7.65	NM
MW-37DD	10/1/2013		5.3	<0.34	<0.34	<1.0	<1.66	<0.37	NA	NM	NM	NM	NM	NM	NM
MW-37DD	5/21/2014		26.5	<1.0	<1.0	<3.0	1.1	<1.0	<4.0	NM	NM	NM	NM	NM	NM
MW-37DD	10/29/2014		109	<0.39	<0.39	<1.2	<1.4J	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-37DD	5/5/2015		263	<0.39	<0.39	<1.2	<1.23J	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MW-37DD	10/6/2015		461	<1.6	<1.6	<5.0	<3.4	<1.9	<1.7	NM	NM	NM	NM	NM	NM
MW-37DD	5/25/2016		667	<1.9	<2.0	<6.2	<4.2	<2.4	<2.1	NM	NM	NM	NM	NM	NM
MW-37DD	10/5/2016		932	<1.6	<1.6	<5.0	<3.4	<1.9	<1.7	NM	NM	NM	NM	NM	NM
MW-37DD	10/12/2017		1060	<7.8	<7.9	<25.0	<16.7	<9.7	<8.5	NM	NM	NM	NM	NM	NM
MW-37DD	6/27/2018		1260	<4.9	<3.3	<9.8	<6.7	<3.2	<5.1	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-37DD	10/11/2018		1260	<4.9	<3.3	<9.8	<6.7	<3.2	<5.1	NM	NM	NM	NM	NM	NM	NM
MW-37DDD	6/27/2018		3.9	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-37DDD	10/11/2018		2.8	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
GP-38S	6/21/2011		4.3	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NM	NM	NM	NM	NM	NM	NM
MW-38S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.36	-172	7.63	934	7.82		NM
MW-38S	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.61	-201	7.69	961	8.13		NM
MW-38S	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.66	22	7.1	1337	7.22		NM
MW-38S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.79	218	8.9	1145	6.76		NM
MW-38S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-38S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38S	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38S	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
GP-38D	6/21/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-38D	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.84	-354	8.51	884	7.90		NM
MW-38D	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.37	-256	7.89	939	8.28		NM
MW-38D	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.76	-2.1	8.0	1233	7.46		NM
MW-38D	10/1/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-38D	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.32	166	8.6	1117	7.03		NM
MW-38D	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MW-38D	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-38D	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38D	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38D	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38D	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38D	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38D	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-38D	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-38D	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-38DD	6/20/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-38DD	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
GP-39S	6/23/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
GP-39D	6/23/2011		<5.0	<5.0	<5.0	<15	<5.0	<5.0	<20	NM	NM	NM	NM	NM	NM	NM
MW-40S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.68	-244	7.24	1234	7.48	NM	NM
MW-40S	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.95	-191	8.78	1510	7.67	NM	NM
MW-40S	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	7.40	-34	5.7	2099	6.58	NM	NM
MW-40S	5/7/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	1.21	83	6.3	1911	6.34	NM	NM
MW-40S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-40S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40S	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40S	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-40D	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	1.43	-182	9.13	295	7.87	NM	NM
MW-40D	10/20/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.66	-210	7.86	852	8.24	NM	NM
MW-40D	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.58	-33	7.9	1170	7.44	NM	NM
MW-40D	10/1/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-40D	5/7/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.37	51	8.5	1062	7.34	NM	NM
MW-40D	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MW-40D	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-40D	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D (Dup)	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-40D	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-40D	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-41S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.95	-32	10.2	790	7.85	NM	NM
MW-41S	10/18/2011		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	2.01	-224	7.78	828	8.34	NM	NM
MW-41S	4/18/2012		3.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.8	84	7.1	1111	7.76	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-41S	5/7/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.43	160	7.4	993	7.29	NM	
MW-41S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
MW-41S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41S	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41S	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41S	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
MW-41D	7/26/2011		4.1	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	0.45	-3	7.32	822	7.98	NM	
MW-41D	10/18/2011		7.9	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.43	-355	7.93	938	8.25	NM	
MW-41D	4/18/2012		2.5	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.16	102.6	7.9	1229	7.80	NM	
MW-41D	10/1/2012		3.4	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-41D	5/7/2013		1.8	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	1.22	171	8.6	1088	7.49	NM	
MW-41D	10/2/2013		2.8	<0.34	<0.34	<1.0	<0.69	<0.34	NA	NM	NM	NM	NM	NM	NM	
MW-41D	5/21/2014		1.6	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
MW-41D	10/29/2014		1.7	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41D	5/4/2015		3.3	<0.39	<0.39	<1.2	<0.84	<0.78	<0.42	NM	NM	NM	NM	NM	NM	
MW-41D	10/6/2015		1.0	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41D	5/24/2016		12.4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41D	10/4/2016		3.0	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41D	10/4/2017		18.2	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MW-41D	6/20/2018		12.9	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
MW-41D	10/11/2018		28.4	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
MW-41DD	6/27/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
MW-41DD	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
P-42D	9/14/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
P-42DD	9/14/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NM	NM	NM	NM	NM	NM	
P-43D	9/14/2011		75.2	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
P-43DD	9/14/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	
MW-45S	6/14/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MW-45S	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-45S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.44	45.2	8.1	1065	6.81	NM	NM
MW-45S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-45S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45S	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45S	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45S	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-45D	6/14/2012		2.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-45D	10/1/2012		81.8	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-45D	5/6/2013		37.7	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.33	104.9	7.7	1234	6.98	NM	NM
MW-45D	10/2/2013		101	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MW-45D	5/21/2014		127	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-45D (Dup)	5/21/2014		109	<1.0	2.4	<3.0	<2.0	<1.0	12.1	NM	NM	NM	NM	NM	NM	NM
MW-45D	10/30/2014		120	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45D	5/5/2015		105	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45D	10/6/2015		128	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45D	5/25/2016		136	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45D	10/5/2016		129	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45D	10/4/2017		144	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-45D	6/27/2018		155	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-45D	10/11/2018		121	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-46S	6/14/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-46S	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-46S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	5.65	228.6	8.9	6718	7.42	NM	NM
MW-46S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-46S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46S	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46S	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-46D	6/14/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-46D	10/2/2012		<1.0	<1.0	<1.0	5.3	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MW-46D	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	0.30	174.2	7.9	1122	7.1	NM	NM
MW-46D	10/1/2013		<0.34	<0.34	0.70J	3.5	NA	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MW-46D	5/20/2014		<1.0	<1.0	<1.0	4.3	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MW-46D	10/29/2014		<0.40	<0.39	0.47J	2.4J	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MW-46D	5/4/2015		<0.40	<0.39	0.47J	2.7J	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46D	10/5/2015		<0.40	<0.39	0.39J	2.3J	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46D	5/24/2016		<0.40	<0.39	<0.39	<1.2	<.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46D	10/4/2016		<0.40	<0.39	<0.39	1.9J	<.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46D	10/3/2017		<0.40	<0.39	0.41	2.0	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-46D	6/19/2018		<0.31	<0.49	<0.33	1.5J	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-46D	10/9/2018		<0.31	<0.49	0.35J	1.6J	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-48S	10/4/2016		<0.4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-48S	6/13/2017		<0.4	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-48S	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-48S	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-48S	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-48D	10/4/2016		125	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-48D	6/14/2017		12	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-48D	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-48D	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-48D	10/10/2018		<0.31	<0.49	<0.33	<0.98	0.35J	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-49S	10/4/2016		21	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-49S	6/13/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-49S	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-49S	6/19/2018		1660	33.4	<6.6	<19.4	<13.2	<6.4	<10.1	NM	NM	NM	NM	NM	NM	NM
MW-49S	10/10/2018		1970	37.2	1.7J	4.0J	<3.3	<1.6	<2.5	NM	NM	NM	NM	NM	NM	NM
MW-49D	10/4/2016		14.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-49D	6/13/2017		1.0	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-49D	10/4/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MW-49D	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-49D	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-50D	6/20/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MW-50D	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MW-51D	6/20/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-51D	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-52D	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-52D	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-52DD	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MW-52DD	10/9/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MWAST-3	10/22/2003		1100	420	140	460	172	<4.0	NA	1.1	207	NM	NM	NM	NM
MWAST-3	4/21/2004		790	240	98	280	111	72	NA	4.4	165	NM	NM	NM	NM
MWAST-3	11/18/2004		85.1	23	6.1	28.9	12.6	<4.0	NA	4.2	19	NM	NM	NM	0.0
MWAST-3	4/20/2005		374	22.1	6.7	32.3	17.4	<1.0	NA	1.4	212	NM	NM	NM	NM
MWAST-3	10/11/2005		180	30	21	47.1	22.9	3.5	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/26/2006		650	121	<10.0	103	71.1	<10.0	NA	NM	NM	NM	NM	NM	NM
MWAST-3	5/1/2007		657	118	59.0	108	47.0	<20.0	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/2/2007		578	86	39.0	63.6	31.3	<5.0	NA	NM	NM	NM	NM	NM	NM
MWAST-3	5/9/2008		528	155	8.7	72.4	20.8	<5.0	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/30/2008		223	12.8	1.6	7.7	2.5	<1.0	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/12/2011		521	181	47.0	88.2	28.1	<1.0	13	1.2	-103	7.6	647	8.07	NM
MWAST-3	10/2/2012		207	49.9	17.8	37.9	16.7	<1.0	NA	NM	NM	NM	NM	NM	NM
MWAST-3	6/20/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MWAST-8	10/22/2003		12000	1100	890	1100	430	<4.0	NA	1.9	211	NM	NM	NM	NM
MWAST-8	4/21/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	11/18/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	4/20/2005		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	10/11/2005		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	10/26/2006		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	5/1/2007		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	6/27/2018		2840	514	596	1633	798	<12.8	260	NM	NM	NM	NM	NM	NM
MWAST-8	6/27/2018	D	2210	356	453	1246	660	<12.8	198	NM	NM	NM	NM	NM	NM
MWAST-9	10/22/2003		1400	1300	170	550	141	<4.0	NA	1.5	212	NM	NM	NM	NM
MWAST-9	4/21/2004		160	110	13	33	8.3	7.7	NA	6.52	169	NM	NM	NM	NM
MWAST-9	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	3.90	-018	NM	NM	NM	0.0

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm	
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	
MWAST-9	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	5.0	216	NM	NM	NM	NM	
MWAST-9	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	4.65	-023	NM	569	7.78	1.0	
MWAST-9	10/26/2006		80.0	71.3	6.8	39.3	11.9	<1.0	NA	64.80	141	NM	NM	NM	0.0	
MWAST-9	5/1/2007		11.5	9.0	<1.0	<3.0	<1.0	<4.0	NA	7.62	9.8	NM	NM	7.12	1.0	
MWAST-9	10/2/2007		53.4	32.9	3.1	13.9	4.6	<1.0	NA	2.70	29.3	NM	NM	7.30	NM	
MWAST-9	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.73	224.4	NM	NM	6.52	1.0	
MWAST-9	10/30/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.08	54.3	NM	NM	7.13	0.0	
MWAST-9	10/12/2011		20.4	3.2	<1.0	<3.0	4.5	<1.0	<4.0	0.11	-1	7.8	508	8.26	NM	
MWAST-9	10/2/2012		93.2	98.7	7.0	49.9	11.5	<1.0	NA	NM	NM	NM	NM	NM	NM	
Well Bent/Damaged																
MWM-2	10/22/2003		720	18	25	8.4	4.8	<4.0	NA	5.7	243	NM	NM	NM	NM	
MWM-2	4/21/2004		20	<1.0	<1.0	<3.0	<1.0	<4.0	NA	4.20	234	NM	NM	NM	NM	
MWM-2	11/18/2004		Well Bent/Damaged--Repaired in Aug 2005													
MWM-2	4/20/2005		Well Bent/Damaged--Repaired in Aug 2005													
MWM-2	10/11/2005		0.76 J	<1.0	<1.0	0.74 J	<1.0	<1.0	NA	6.76	34.4	NM	840	7.33	2.0	
MWM-2	10/25/2006		1980	52.2	54.5	32.8	10.7	<1.0	NA	22.70	135	NM	NM	NM	0.0	
MWM-2	5/1/2007		3.6	<1.0	<1.0	<3.0	<1.0	<4.0	NA	4.29	26.4	NM	NM	6.97	1.0	
MWM-2	10/2/2007		5.2	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.13	17.6	NM	NM	7.00	0.0	
MWM-2	5/9/2008		708	23.0	35.3	<15.0	<5.0	<5.0	NA	0.67	136.5	NM	NM	6.48	0.0	
MWM-2	10/29/2008		183	7.0	9.5	3.8	<1.0	<1.0	NA	1.34	30.0	NM	NM	6.96	0.0	
MWM-2	10/12/2011		1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.78	-50.0	7.8	827	8.00	NM	
MWM-2	10/2/2012		244	19.9	14.5	7.4	4	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWM-2	10/1/2013		523	13.1	22.4	5.8J	<3.5	<1.9	NA	NM	NM	NM	NM	NM	NM	
MWM-2	10/30/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	0.53J	NM	NM	NM	NM	NM	NM	
MWM-2	10/5/2015		12.8	0.49J	0.86J	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MWM-2	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
Well Bent/Damaged																
MWM-2D	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MWM-2D	6/13/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MWM-2D	10/3/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	
MWM-2D	6/19/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
MWM-2D	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	
Well Bent/Damaged																
MWM-4	10/22/2003		<1.0	<1.0	3.3	<3.0	2.8	<4.0	NA	3.6	240	NM	NM	NM	NM	
MWM-4	4/21/2004		1.2	<1.0	1.4	<3.0	<1.0	<4.0	NA	6.43	217	NM	NM	NM	NM	
MWM-4	11/18/2004		Well Bent/Damaged													

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MWM-4	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.6	204	NM	NM	NM	NM	NM
MWM-4	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.45	13.3	NM	692	7.69	2.0	
MWM-4	10/26/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	25.80	107.4	NM	NM	NM	0.0	
MWM-4	5/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.08	-7.7	NM	NM	7.48	1.0	
MWM-4	10/2/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.36	33.3	NM	NM	7.26	0.0	
MWM-4	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	3.12	246.1	NM	NM	6.58	1.0	
MWM-4	10/30/2008		1.0	<1.0	3.4	3.7	2.5	<1.0	NA	2.11	68.9	NM	NM	7.12	0.0	
MWM-4	10/12/2011		1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.09	-6.0	8.3	639	8.13	NM	
MWM-6	10/31/2014		3.3	<0.39	24.3	25.9	88.3	4.2	5.9	NM	NM	NM	NM	NM	NM	NM
MWM-6	5/6/2015		3.2	1.3	7.7	16.2	22.3	0.81J	3.1	NM	NM	NM	NM	NM	NM	NM
MWM-7	10/22/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.1	210	NM	NM	NM	NM	NM
MWM-7	4/21/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.34	202	NM	NM	NM	NM	NM
MWM-7	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.30	63	NM	NM	NM	0.0	
MWM-7	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	2.4	222	NM	NM	NM	NM	NM
MWM-7	10/11/2005		0.25 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA	6.30	43.0	NM	800	7.39	0.3	
MWM-7	10/25/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	9.80	133.4	NM	NM	NM	1.0	
MWM-7	5/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.65	3.4	NM	NM	7.15	1.0	
MWM-7	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.33	33.0	NM	NM	7.06	0.0	
MWM-7	5/9/2008		3.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.61	236.3	NM	NM	6.45	1.0	
MWM-7	10/28/2008		6.8	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.88	76.6	NM	NM	6.82	0.0	
MWM-7	10/12/2011		2.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.89	-4.0	8.5	781	7.93	NM	
MWM-7	10/2/2012		3.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWM-7	10/1/2013		2.1	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7	10/29/2014		0.60J	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWM-7	10/6/2015		8.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWM-7	10/5/2016		4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/14/2009		2340	96	67	97.2	30.3	<1.0	<4.0	1.2	122	NM	NM	7.82	NM	
MWM-7D	4/29/2010		1860	82.4	55.1	72.4	16.5	<10.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	4/29/2010		1870	81.9	51.6	71.7	<20.0	<20.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/27/2010	D	2200	122	84.2	111	35.1	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	4/26/2011		2180	104	75.9	113	22.5	<20.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/12/2011		667	3.7	<1.0	38.1	4.4	<1.0	NA	0.56	-210	8.6	1069	8.10	NM	
MWM-7D	4/17/2012		731	28.3	18.0	29.1	10.7	<1.0	NA	0.87	4.6	7.8	1397	7.69	NM	

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MWM-7D	10/2/2012		1600	78.6	59.2	74.7	28.9	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/2/2012	D	1430	62.3	46.9	59.0	16.8	<5.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	5/6/2013		1400	53.5	38.5	52.6	18.2	<10.0	<40.0	0.30	90.5	8.4	1276	7.35	NM	NM
MWM-7D	10/3/2013		1210	43.2	35	34.9J	<19.5J	<7.4	NA	NM	NM	NM	NM	NM	NM	NM
MWM-7D	5/21/2014		1170	38.9	33.6	31.1	<21.7	<10.0	<40.0	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/30/2014		1370	39.3	34.4	35.6	<13.9J	<4.8	8.2J	NM	NM	NM	NM	NM	NM	NM
MWM-7D	5/5/2015		1630	36.7	33.7	30.5J	<16.7	<9.7	<8.5	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/6/2015		1890	44.3	40.2	39.7J	<20.8	<12.1	<10.6	NM	NM	NM	NM	NM	NM	NM
MWM-7D	5/25/2016		1760	39.8	36.3	37.2	8.3	<2.4	<2.1	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/5/2016		1980	45.1	42.3	40.2	<12.0J	<4.8	<4.2	NM	NM	NM	NM	NM	NM	NM
MWM-7D	6/14/2017		2010	43.7	45.4	47.2J	<33.3	<19.4	<17.0	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/4/2017		1980	42.3	46.5	47.8	<33.3	<19.4	<17.0	NM	NM	NM	NM	NM	NM	NM
MWM-7D	6/27/2018		2100	41.1	46.6	44.9	<13.2	<6.4	<10.0	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/12/2018		2250	43.5	50.4	48.8	<13.4	<6.4	<10.1	NM	NM	NM	NM	NM	NM	NM
MWM-7D	10/12/2018	D	2290	45.6	52.8	53.8J	<16.8	<8.0	<12.6	NM	NM	NM	NM	NM	NM	NM
			Well Abandoned													
MWM-9	10/22/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.2	183	NM	NM	NM	NM	NM
MWM-9	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.57	235	NM	NM	NM	NM	NM
MWM-9	11/18/2004		Well Abandoned													
MWM-9RS	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	2.1	183	NM	NM	7.53	NM	NM
MWM-9RS	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-9RS	10/12/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.8	-98	8.1	847	8.11	NM	NM
MWM-9RS	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWM-9RS	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MWM-9RS	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWM-9RS	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWM-9RS	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWM-9RD	10/14/2009		4790	295	207	327	163.9	<1.0	37.2	1.5	139	NM	NM	7.42	NM	NM
MWM-9RD	4/29/2010		5520	309	248	366	129	<50.0	<200	NM	NM	NM	NM	NM	NM	NM
MWM-9RD	10/27/2010		4980	292	272	376	205.8	<25.0	<100	NM	NM	NM	NM	NM	NM	NM
MWM-9RD	4/26/2011		5540	318	328	469	228.5	<50.0	<200	NM	NM	NM	NM	NM	NM	NM
MWM-9RD	4/26/2011		5230	299	300	373	164	<50.0	<200	NM	NM	NM	NM	NM	NM	NM
MWM-9RD	10/12/2011	D	3440	153	44.4	206	50.1	<1.0	<4.0	0.46	-148	8.5	924	7.89	NM	NM
MWM-9RD	4/17/2012		4300	226	198	264	85.7	<50.0	NA	0.53	52.7	8.2	1224	7.14	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MWM-9RD	10/2/2012		4650	262	270	356	190.4	<25.0	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	5/8/2013		3040	113	44.4	185	127.8	<5.0	<20.0	0.5	7	8.1	1127.0	327.10	NM
MWM-9RD	10/3/2013		3060	177	202	248	140.8J	<14.8	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	5/22/2014		3190	188	225	258	157.1	<20.0	<80.0	NM	NM	NM	NM	NM	NM
MWM-9RD	10/30/2014		3350	204	252	322	195	<24.2	70.4	NM	NM	NM	NM	NM	NM
MWM-9RD	5/5/2015		3020	164	225	269	151.8J	<19.4	42.0	NM	NM	NM	NM	NM	NM
MWM-9RD	10/7/2015		2980	152	215	253	141.8J	<24.2	34.1J	NM	NM	NM	NM	NM	NM
MWM-9RD	5/25/2016		2620	136	194	250	140.8	<4.8	39.4	NM	NM	NM	NM	NM	NM
MWM-9RD	10/6/2016		2750	141	229	399	140.5	<9.7	36.3	NM	NM	NM	NM	NM	NM
MWM-9RD	6/14/2017		2690	117	197	233	125.4	25.2	37.5	NM	NM	NM	NM	NM	NM
MWM-9RD	10/4/2017		2470	103	189	222	123.7	46.4	50.7	NM	NM	NM	NM	NM	NM
MWM-9RD	6/27/2018		2470	102	163	209	112.4	116	27.5J	NM	NM	NM	NM	NM	NM
MWM-9RD	6/27/2018	D	2380	105	169	230.4	125.3	123	45.8	NM	NM	NM	NM	NM	NM
MWM-9RD	10/12/2018		2400	101	149	208	112	165	48.6	NM	NM	NM	NM	NM	NM
MWM-9RD	10/12/2018	D	2380	94.9	144	198	110.5J	163	48.9J	NM	NM	NM	NM	NM	NM
MWM-10S	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWM-10S	4/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/18/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<2.0	0.6	-230	9	1342	7.73	NM
MWM-10S	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<.37	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MWM-10S	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	0.43J	NM	NM	NM	NM	NM	NM
MWM-10S	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MWM-10D	4/29/2010		1230	23.1	<10.0	<30.0	<10.0	<10.0	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/27/2010		960	19.6	<5.0	18	<5.0	<5.0	NA	NM	NM	NM	NM	NM	NM
MWM-10D	4/26/2011		44.8	1.0	<1.0	3.2	1.3	<1.0	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/18/2011		289	6.5	1.4	9.9	2	<1.0	NA	0.46	-305	7.51	869	8.11	NM
MWM-10D	4/17/2012		785	18.7	3.7	17	3.2	<1.0	NA	0.67	-7.6	8.1	1093	7.65	NM
MWM-10D	10/2/2012		1180	25	<10.0	<30.0	<10.0	<10.0	NA	NM	NM	NM	NM	NM	NM
MWM-10D	5/6/2013		497	10.2	<5.0	<15.0	<10.0	<5.0	<20.0	0.3	80	8	982	7.25	NM
MWM-10D	5/6/2013	D	507	9.9	1.8	10.2	2.8	<1.0	<4.0	0.3	80	8	982	7.25	NM
MWM-10D	10/3/2013		845	18.8	5.5J	18.4J	<8.4J	<3.7	NA	NM	NM	NM	NM	NM	NM
MWM-10D	5/21/2014		925	23.5	<5.0	19.9	<10.0	<5.0	<20.0	NM	NM	NM	NM	NM	NM
MWM-10D	10/30/2014		914	19.1	4.0J	13.6J	<4.2	<2.4	<2.1	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MWM-10D	10/30/2014	D	869	18.5	<3.9	15.7J	<8.4	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MWM-10D	5/5/2015		1010	22.6	4.3J	16.2J	<8.4	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MWM-10D	10/6/2015		874	19.0	<3.9	14.5J	<8.4	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MWM-10D	5/25/2016		883	19.3	4.9J	14.3J	4.3J	2.6J	3.1J	NM	NM	NM	NM	NM	NM
MWM-10D	10/5/2016		908	18.1	5.3J	13.6J	<8.4	<4.8	<4.2	NM	NM	NM	NM	NM	NM
MWM-10D	6/14/2017		1080	25.9	6.7J	20.3	<8.4	<4.8	9.5J	NM	NM	NM	NM	NM	NM
MWM-10D	10/4/2017		977	23.6	6.9	20.5	<8.4	11.2	12.6	NM	NM	NM	NM	NM	NM
MWM-10D	6/27/2018		1110	28.6	6.6J	18.3J	<6.7	<3.2	5.7J	NM	NM	NM	NM	NM	NM
MWM-10D	10/11/2018		1140	27.8	7.8J	22.5	<6.7	5.7J	7.0J	NM	NM	NM	NM	NM	NM
RWAST-1	10/5/2016		5420	1530	642	1220	303.8	<24.2	153	NM	NM	NM	NM	NM	NM
RWAST-1	6/27/2018		2270	1200	557	1305	259.2	<16.0	104	NM	NM	NM	NM	NM	NM
RWAST-2	4/29/2010		1460	638	433	1399	590	21.1J	149	NM	NM	NM	NM	NM	NM
LRMW-1	6/27/2018		6850	1740	859	2714	769	<40.0	303	NM	NM	NM	NM	NM	NM
LRMW-6	4/15/2003		2400	280	1100	2400	499	<20	140	0.3	-071	NM	NM	NM	1.55
LRMW-6	4/15/2003	D	2100	300	1300	2500	560	<80	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/22/2003		2500	300	1300	2400	510	<20	130	1.3	-094	NM	NM	NM	NM
LRMW-6	10/22/2003	D	2400	300	1400	2400	540	<40	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/21/2004		3100	340	1500	2800	650	<1.0	190	1.82	066	NM	NM	NM	NM
LRMW-6	4/21/2004	D	2500	350	1400	2600	660	<40	NA	NM	NM	NM	NM	NM	NM
LRMW-6	11/18/2004		1740	148	656	1080	258	<10	55.7	0.80	-078	NM	NM	NM	4.0
LRMW-6	11/18/2004	D	48.4	<10.0	12.7	28.6 J	175.9	<40.0	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/20/2005		2190	277	972	2020	571	<5.0	118	1.5	-13	NM	NM	NM	NM
LRMW-6	4/20/2005	D	2590	286	1160	2090	579	<5.0	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/11/2005		1500	210	1000	1500	660	11	120	1.22	-88.2	NM	1146	7.49	2.0
LRMW-6	10/11/2005	D	1500	210	1000	1500	660	11	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/25/2006		1640	175	1410	2010	866	<10.0	143	8.60	-147.4	NM	NM	NM	10.0
LRMW-6	10/25/2006	D	1660	183	1450	2070	904	<10.0	NA	NM	NM	NM	NM	NM	NM
LRMW-6	5/1/2007		1820	207	1420	2160	655	<20.0	140	0.47	-183.6	NM	NM	6.88	10.0
LRMW-6	5/1/2007	D	1490	187	1180	1870	582	<20.0	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/1/2007		1690	187	1310	1940	804	<20.0	125	0.04	-55.4	NM	NM	6.85	10.0
LRMW-6	5/9/2008		1860	200	1500	2380	911	<10.0	167	0.49	-73.1	NM	NM	6.63	NM
LRMW-6	5/9/2008	D	1900	226	1510	2300	954	<5.0	NA	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
LRMW-6	10/30/2008		1820	203	1380	2310	924	<1.0	NA	1.29	-71.50	NM	NM	6.84	10.0	
LRMW-6	10/14/2009		1500	170	1300	1940	730.1	<10.0	127	NM	NM	NM	NM	NM	NM	
LRMW-6	4/29/2010		2210	266	1650	2850	822.0	<10.0	177	NM	NM	NM	NM	NM	NM	
LRMW-6	10/27/2010		1560	190	1520	2230	970.0	<10.0	140	NM	NM	NM	NM	NM	NM	
LRMW-6	4/26/2011		1570	196	1660	2540	1162	<10.0	152	NM	NM	NM	NM	NM	NM	
LRMW-6	10/12/2011		1620	181	1300	1860	844	<10.0	108	0.56	-191	9.77	1203	7.86	NM	
LRMW-6	4/17/2012		1470	197	1190	2210	620	<10.0	NA	3.04	-19.5	8.3	1478	6.91	NM	
LRMW-6	10/2/2012		2070	248	1420	2390	757	<10.0	NA	NM	NM	NM	NM	NM	NM	
LRMW-6	10/5/2016		1130	141	1310	1340	886	<9.7	116	NM	NM	NM	NM	NM	NM	
LRMW-6	6/20/2018		1060	143	1290	1519	835	8.4J	127	NM	NM	NM	NM	NM	NM	
LRMW-8	7/28/2011		1460	388	132	343	310	<10.0	<40.0	0.47	-132	9.1	440	7.69	NM	
LRMW-8	10/17/2011		815	333	164	509	300	<1.0	46.8	0.88	-179	8.82	862	8.2	NM	
LRMW-9	7/30/2014		1820	701	142	315	76	<3.5	<50.0	NM	NM	NM	NM	NM	NM	
LRMW-9	10/31/2014		1490	499	123	240	73.8	5.2J	18.9	NM	NM	NM	NM	NM	NM	
LRMW-9	5/5/2015		1850	681	162	314	88.4	<9.7	26.3	NM	NM	NM	NM	NM	NM	
LRMW-9	5/25/2016		2000	661	171	325	105.5	<2.4	23.6	NM	NM	NM	NM	NM	NM	
LRMW-9	6/27/2018		2270	713	178	367	137.5	<12.8	31.0J	NM	NM	NM	NM	NM	NM	
LRMW-10	7/30/2014		3060	4920	1450	4710	1871	<17.4	619	NM	NM	NM	NM	NM	NM	
LRMW-10	5/6/2015		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	
MWRR-1	10/22/2003		57	1.2	<1.0	<3.0	<1.0	<4.0	NA	2.7	223	NM	NM	NM	NM	
MWRR-1	4/21/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.78	183	NM	NM	NM	NM	
MWRR-1	11/18/2004		306	1.7	<1.0	1.6 J	<1.0	<4.0	NA	1.80	058	NM	NM	NM	0.0	
MWRR-1	4/20/2005		6.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.5	45	NM	NM	NM	NM	
MWRR-1	10/11/2005		0.29 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	5/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	10/1/2007		316	13.9	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	10/29/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	10/12/2011		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	1.1	-135	10	608	8	NM	
MWRR-1	10/2/2012		154	2.4	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	
MWRR-1	10/3/2013		216	0.93J	<0.34	<1.0	<0.69	0.44J	NA	NM	NM	NM	NM	NM	NM	

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MWRR-1	5/5/2015		29.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MWRR-1	10/6/2015		164	0.89J	<0.39	<1.2	<0.84	0.61J	<0.42	NM	NM	NM	NM	NM	NM
MWRR-1	10/5/2016		<0.4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MWRR-1D	6/28/2018		50.6	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM
MWRR-1DR	7/25/2018		460	7.0J	<1.6	4.8J	<3.3	<1.6	<2.5	NM	NM	NM	NM	NM	NM
MWRR-1DR	10/11/2018		510	7.2J	<3.3	4.7J	<6.7	<3.2	<5.1	NM	NM	NM	NM	NM	NM
MWRR-2	10/22/2003		2.4	<1.0	<1.0	<3.0	<1.0	<4.0	NA	4.8	-051	NM	NM	NM	NM
MWRR-2	4/21/2004		4.4	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.44	135	NM	NM	NM	NM
MWRR-2	11/18/2004		9.0	<1.0	<1.0	<3.0	1.3	<4.0	NA	0.80	-43	NM	NM	NM	6.0
MWRR-2	4/20/2005		2.3	<1.0	<1.0	<1.0	<3.0	<1.0	NA	0.7	-11	NM	NM	NM	NM
MWRR-2	10/11/2005		12	0.38 J	0.59 J	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/24/2006		8.9	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	5/1/2007		9.9	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/1/2007		6.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	5/9/2008		11.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/29/2008		6.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/14/2009		6.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/27/2010		8.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/14/2011		19.9	1.0	<1.0	<3.0	<1.0	<1.0	NA	0.9	-207	8.9	-207	7.83	NM
MWRR-2	10/2/2012		17.2	1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-2	5/5/2015		6.9	0.45J	0.58J	1.5J	<0.84	0.96J	<0.42	NM	NM	NM	NM	NM	NM
MWRR-2	10/6/2015		11.1	0.41J	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM
MWRR-2	10/4/2016		17.6	0.87J	1.2	<3.95	<2.62	0.49J	0.72J	NM	NM	NM	NM	NM	NM
MWRR-4	10/22/2003		740	470	400	1700	610	<40	NA	3.25	-065	NM	NM	NM	NM
MWRR-4	4/21/2004		940	1200	240	2300	800	<20	NA	1.80	103	NM	NM	NM	NM
MWRR-4	11/18/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWRR-4	4/20/2005		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWRR-4	10/11/2005		0.14 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/24/2006		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWRR-4	5/1/2007		304	174	75.9	1290	423	<20.0	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/1/2007		414	225	130.0	1350	483	<5.0	NA	NM	NM	NM	NM	NM	NM
MWRR-4	5/9/2008		498	277	143.0	1470	511	<5.0	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/30/2008		616	308	215	1460	527	<5.0	NA	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
MWRR-4	10/14/2009		689	261	345	1300	546	<5.0	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/27/2010		674	309	216	1250	489	<5.0	245	NM	NM	NM	NM	NM	NM
MWRR-4	10/12/2011		669	235	303	1240	429	<5.0	255	0.7	-215	10.2	868.0	7.76	NM
MWRR-4	5/6/2015		805	172	231	1130	479	<4.8	249	0.7	-215	10.2	868.0	7.76	NM
MWRR-4	10/6/2015		383	80.2	112	702	281.6	<1.9	157	NM	NM	NM	NM	NM	NM
MWRR-4	10/4/2016		676	125.0	179	797	304.7	<4.8	167	NM	NM	NM	NM	NM	NM
MWRR-4	6/20/2018		323	43.4	38.1	501	262.0	2.6J	136	NM	NM	NM	NM	NM	NM
MWOW-1	10/21/2003		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	1/20/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	4/19/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	7/27/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	11/15/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	4/18/2005		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	10/11/2005		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	5/23/2006		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	10/16/2006		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	5/1/2007		500	25.8	146	444	825	28.5	NA	NM	NM	NM	NM	NM	NM
MWOW-1	9/25/2007		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	7/30/2014		377	12.5	92.7	62.6	924	<0.87	<12.5	NM	NM	NM	NM	NM	NM
MWOW-1	5/6/2015		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-2	10/22/2003		6.8	<1.0	1.5	<3.0	1.1	<4.0	NA	1.27	194	NM	NM	NM	NM
MWOW-2	10/22/2003	D	6.2	<1.0	1.2	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	4/21/2004		6.3	<1.0	<1.0	<3.0	3.5	<4.0	NA	2.34	163	NM	NM	NM	NM
MWOW-2	4/21/2004	D	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	2.40	118	NM	NM	NM	0.0
MWOW-2	11/18/2004	D	101	3.0	59.0	7.8	62.6	<4.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	4/20/2005		5.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.1	-23	NM	NM	NM	NM
MWOW-2	4/20/2005	D	5.9	<1.0	0.53 J	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/11/2005		3.8	<1.0	0.42 J	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/11/2005	D	3.8	<1.0	0.50 J	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/24/2006		0.61 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/24/2006	D	0.79 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	5/1/2007		1.3	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM
MWOW-2	5/1/2007	D	1.7	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MWOW-2	10/1/2007		1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM	NM
MWOW-2	5/9/2008		3.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-2	5/9/2008	D	3.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-2	10/29/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-2	10/12/2011		1.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.6	-202	12.5	804	8.01	NM	NM
MWOW-2	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-2	10/2/2013		0.38J	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-2	5/4/2015		0.54J	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWOW-2	10/6/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWOW-2	10/4/2016		0.44J	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWOW-2D	6/20/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MWOW-2D	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/22/2003		190	30	81	160	123	<8.0	NA	3.14	-104	NM	NM	NM	NM	NM
MWOW-3	4/21/2004		61	6.5	27	68	111	<4.0	NA	1.32	060	NM	NM	NM	NM	NM
MWOW-3	11/18/2004		24.7	6.9	52	10.8 J	366	<20	NA	0.90	-29	NM	NM	NM	NM	2.0
MWOW-3	4/20/2005		45.1	3.7 J	21.3	43.9	50.7	<5.0	NA	0.6	-06	NM	NM	NM	NM	NM
MWOW-3	10/11/2005		75	8.2	85	89.1	91	1.3	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/24/2006		266	25.4	16.7	<15.0	18.7	<5.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	5/1/2007		71.2	3.7	40.6	35.4	30.8	<4.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/1/2007		47.5	<5.0	30.2	27.0	22.0	<5.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	5/9/2008		120.0	5.4	55.1	29.6	29.6	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/29/2008		116	6.0	63.2	33.0	23.5	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/14/2009		119	9.2	3.0	<3.0	<1.0	<1.0	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/27/2010		23	1.6	4.1	<3.0	<1.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/12/2011		34.3	1.9	2.3	<3.0	<1.0	<1.0	<4.0	0.79	-162	8.8	737	8.01	NM	NM
MWOW-3	10/2/2012		72.4	3.3	1.3	<3.0	<1.0	<1.0	<1.0	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/3/2013		167.0	16.7	23.0	56.4	14.0	4.1	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-3	7/30/2014		66.6	2.0	3.6	2.1J	<2.4	<0.17	<2.5	NM	NM	NM	NM	NM	NM	NM
MWOW-3	5/5/2015		32.5	1.2	1.9	2.8J	<1.09J	1.5	1.3	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/6/2015		24.1	2.2	6.9	7.2	4.24J	0.53J	3.7	NM	NM	NM	NM	NM	NM	NM
MWOW-3	10/4/2016		36.8	1.4	5.2	3.2	1.1	1.0	1.1	NM	NM	NM	NM	NM	NM	NM
MWOW-5	10/21/2003		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
MWOW-5	1/20/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MWOW-5	4/19/2004		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWOW-5	7/27/2004		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWOW-5	11/15/2004		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
MWOW-5	4/18/2005		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
MWOW-5	10/11/2005		1300	890	570	1400	530	<10	NA	NM	NM	NM	NM	NM	NM	NM
MWOW-5	5/23/2006		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
MWOW-5	10/16/2006		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
MWOW-5	4/23/2007		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
MWOW-5	9/25/2007		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	4/20/1998		<	0.4	0.5	1.5	<	<	3.1	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	6/24/1998		1.8	<	0.6	<	<	<	<	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	10/1998		1.02	2.57	0.696	2.29	1.38	<	<	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	2/03/1999		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	5/21/1999		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	9/23/1999		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	1/5/2000		<0.44	<0.40	<.50	<1.31	<0.92	<0.44	<0.59	NM	NM	NM	NM	NM	NM	NM
ABC MW-6	4/18/2000		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35	NM	NM	NM	NM	NM	NM	NM
GP100	9/15/2011		1730	622.0	58.6	128	92.5	<10	<40	NM	NM	NM	NM	NM	NM	NM
GP101	9/15/2011		215	37.8	23.3	52.4	151.6	<1	<20.2	NM	NM	NM	NM	NM	NM	NM
GP102	9/15/2011		14200	1340.0	579	924	247.7	<25	<100	NM	NM	NM	NM	NM	NM	NM
GP103	9/15/2011		305	25.1	19.7	24	<1	<2	<8	NM	NM	NM	NM	NM	NM	NM
GP104	9/15/2011		2670	442.0	713	3190	835	<25	747	NM	NM	NM	NM	NM	NM	NM
GP105	9/15/2011		421	165.0	67	116	5.2	<5	<20	NM	NM	NM	NM	NM	NM	NM
GP106	9/15/2011		493	343.0	376	1870	11760	<5	203	NM	NM	NM	NM	NM	NM	NM
GP107	9/16/2011		19	7.2	19.4	56.9	932	<1	17	NM	NM	NM	NM	NM	NM	NM
GP108	9/16/2011		563	23.6	34.7	108	124.8	<5	61	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
GP109	9/16/2011		1340	109.0	201	805	220	<10	141	NM	NM	NM	NM	NM	NM
GP110	9/19/2011		<1	1.1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM
GP111	9/19/2011		1050	120.0	362	1380	835	<10	369	NM	NM	NM	NM	NM	NM
GP112	9/19/2011		39.4	5.0	6	6.9	5.2	<1	<4	NM	NM	NM	NM	NM	NM
GP113	9/19/2011		4430	1590.0	5280	17600	11760	<50	3940	NM	NM	NM	NM	NM	NM
GP114	9/19/2011		174	51.6	715	1670	932	<10	351	NM	NM	NM	NM	NM	NM
GP115	9/20/2011		649	20.6	21	31.1	124.8	<5	<20	NM	NM	NM	NM	NM	NM
GP116	9/20/2011		278	139.0	45.1	144	220	<2	21	NM	NM	NM	NM	NM	NM
GP117	9/20/2011		93.4	8.4	1.8	5.6	2.3	<1	<4	NM	NM	NM	NM	NM	NM
GP118	9/22/2011		5.3	<2	<2	<6	2.5	<2	<8	NM	NM	NM	NM	NM	NM
GP119	9/22/2011		2230	426.0	567	2940	855	<20	549	NM	NM	NM	NM	NM	NM
GP120	9/22/2011		4710	2440.0	732	2740	1282	<50	352	NM	NM	NM	NM	NM	NM
GP200	9/20/2011		3.2	<1	<1	<3	<2	<1	<4	NM	NM	NM	NM	NM	NM
GP201	9/20/2011		15.6	5.1	3.2	8.1	31.1	<2	<8	NM	NM	NM	NM	NM	NM
GP202(D)	9/20/2011		83.7	<2	<2	<6	<2	<2	<8	NM	NM	NM	NM	NM	NM
GP203	9/20/2011		1.6	1.5	18.7	49.8	77.7	<1	14.9	NM	NM	NM	NM	NM	NM
GP204	9/20/2011		1.2	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM
GP205	9/21/2011		1410	28.6	<1	4.7	<1	2	<4	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
GP206	9/21/2011		1110	23.7	<1	3.4	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP207	9/21/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP208	9/21/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP209(D)	9/21/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP210(D)	9/21/2011		10.7	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP211	9/22/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP212	9/22/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP213	9/22/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP214	9/22/2011		1230	156.0	217	466	526	<10	86.6	NM	NM	NM	NM	NM	NM	NM
GP215	9/22/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP216	9/22/2011		<1	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
GP-217	9/22/2011		1.9	<1	<1	<3	<1	<1	<4	NM	NM	NM	NM	NM	NM	NM
ABC MW-7	2/4/1999		440	150	360	497	410	<3.2	60	NM	NM	NM	NM	NM	NM	NM
ABC MW-7	5/21/1999		440	120	310	446	334	<1.6	56	NM	NM	NM	NM	NM	NM	NM
ABC MW-7	9/23/1999		420	110	300	423	332	<0.80	55	NM	NM	NM	NM	NM	NM	NM
ABC MW-7	1/5/2000		410	120	340	425	440	<2.2	67	NM	NM	NM	NM	NM	NM	NM
ABC MW-7	4/18/2000		350	100	290	396	295	<3.2	42	NM	NM	NM	NM	NM	NM	NM
BC-3	11/20/1998		460	130	130	280	182	20	NA	NM	NM	NM	NM	NM	NM	NM
BC-4	11/20/1998		2.1	3.1	2.2	8.1	5.1	<4	NA	NM	NM	NM	NM	NM	NM	NM
BC-7	11/20/1998		FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--	--
MWBD-1	10/10/2013		<0.34	<0.34	<0.34	<1.0	NA	<0.37	NA	NM	NM	NM	NM	NM	NM	NM
MWBD-1	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NM	NM	NM	NM	NM	NM
MWBD-1	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1	10/6/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1	10/6/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	10/29/2014		167	<0.39	<0.39	<1.2	<0.84	<0.48	0.46J	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	2/19/2015		185	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	5/5/2015		207	<0.78	<0.79	<2.5	<1.67	<0.97	<0.85	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	5/5/2015	D	205	<0.78	<0.79	<2.5	<1.67	<0.97	<0.85	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	10/6/2015		210	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	10/6/2015	D	212	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	5/25/2016		213	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	10/5/2016		193	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	6/14/2017		156	<0.78	<0.79	<2.5	<1.67	<0.97	<0.85	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	10/4/2017		148	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	6/20/118		123	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MWBD-1D	10/11/2018		110	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MWBD-1DD	6/20/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
MWBD-1DD	10/10/2018		<0.31	<0.49	<0.33	<0.98	<0.67	<0.32	<0.51	NM	NM	NM	NM	NM	NM	NM
Trip Blank	10/5/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NM	NM	NM	NM	NM

Table 6
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters							Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	--	--	--	--	--	--
NOTES:															
<p>< = The compound was not detected at or above the indicated method detection limit. Unlisted detection limit concentrations were unava µg/L = micrograms per liter (equivalent to parts per billion) µmhos/cm = micromhos per centimeter ABC MW-6 = Indicates a well owned by ABC Rail Corporation (data obtained from WDNR files) °C = Degrees Celsius D = Duplicate sample DO = Dissolved Oxygen DRO = Diesel Range Organics FP = The well was not sampled due to the presence of free product GRO = Gasoline Range Organics MTBE = Methyl Tertiary-Butyl Ether mV = millivolts NA = Not Analyzed for indicated parameter NM = Not Measured NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard NS = Not Sampled ppm = parts per million REDOX = Reduction/Oxidation TMBs = Trimethylbenzenes "BOLD TYPE" = The indicated concentration exceeds the NR 140 ES</p>															

Table 7
Phase II System LNAPL Recovery Summary
 Former Amoco Terminal
 Superior, WI

Superior Barge Dock Product Skimming System - Phase II				Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																						
5 LNAPL Skimming Wells on C. Reiss property				Diameter of tank = 8.00 feet			Depth of tank from top of bung = 8.08 feet			Length of tank = 18.67 feet			Depth of bung = 0.08 feet			Full Volume of tank = 7,019 gallons			95% full volume of tank = 6,668 gallons							
Product Recovery Table																										
Operational Time																										
Date/Time	Calendar Period hours	Total hours	Total days	Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimated # of days until tank full (95%)	Cumulative Estimated # of days until tank full (95%)	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons / day)	Period Product recovery rate (gallons / day)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons / day)	Cumulative Product recovery rate (gallons / day)	Notes
6/19/12 16:00	System startup																									
6/20/12 10:00	18.00	18.0	0.8			9	-	9	7.13	8.00	0.08	0.87	470	7.0%	10.2	10.2	12	458	11.9	457.9	15.8	610.6	458	15.8	610.6	
6/20/12 15:24	5.40	23.4	1.0			11	-	11	6.90	7.90	0.18	1.00	644	9.7%	9.3	9.7	40	604	28.1	146.4	124.7	650.6	604	41.0	619.8	
6/21/12 10:45	19.35	42.8	1.8			1	7.00	19	6.30	7.58	0.50	1.28	1,163	17.4%	11.8	10.0	183	981	142.7	376.4	177.0	466.9	981	102.5	550.6	
6/21/12 14:45	4.00	46.8	1.9			1	8.00	20	6.20	7.52	0.56	1.32	1,257	18.9%	14.9	10.1	216	1,041	33.3	60.5	200.0	363.0	1,041	110.9	534.5	
6/21/12 16:20	1.58	48.3	2.0			1	8.50	20.5	6.16	7.49	0.59	1.33	1,295	19.4%	17.1	10.2	233	1,062	17.3	20.7	262.4	314.0	1,062	115.8	527.3	
6/22/12 9:30	17.17	65.5	2.7			1	11.00	23	5.97	7.49	0.59	1.52	1,479	22.2%	20.1	11.4	233	1,246	0.0	184.2	0.0	257.6	1,246	85.5	456.6	
6/22/12 15:50	6.33	71.8	3.0			1	11.50	23.5	5.92	7.49	0.59	1.57	1,529	22.9%	27.5	11.9	233	1,296	0.0	49.4	0.0	187.2	1,296	77.9	432.9	System shut down for weekend
6/25/12 17:00	0.00	71.8	3.0			2	0.25	24.25	5.88	7.49	0.59	1.61	1,569	23.5%	NA	11.4	233	1,335	0.0	39.8	0.0	0.0	1,335	77.9	446.2	System re-started Monday mid-day
6/26/12 17:00	24.00	95.8	4.0			2	6.25	30.25	5.37	7.49	0.59	2.12	2,094	31.4%	8.7	9.8	233	1,860	0.0	525.0	0.0	525.0	1,860	58.4	465.9	
6/27/12 16:30	23.50	119.3	5.0			2	8.50	32.5	5.19	7.61	0.47	2.42	2,285	34.3%	16.6	10.3	167	2,119	-66.6	258.4	-68.1	263.9	2,119	33.5	426.1	Some water pumped out of tank w/ spillbuddy
6/28/12 17:00	24.50	143.8	6.0	215.4		2	10.00	34	5.12	8.04	0.04	2.92	2,361	35.4%	18.5	11.0	4	2,357	-162.4	237.8	-159.1	232.9	2,357	0.7	393.2	Water pumped out of tank w/ pneumatic pump
6/29/12 15:46	22.77	166.6	6.9	235.2		2	11.50	35.5	4.90	8.04	0.04	3.14	2,600	39.0%	16.2	10.9	4	2,596	0.0	239.0	0.0	251.9	2,596	0.6	373.9	
7/2/12 9:20	65.57	232.2	9.7	300.8		3	6.00	42	4.36	8.04	0.04	3.68	3,197	47.9%	15.9	10.5	4	3,192	0.0	597.0	0.0	218.5	3,192	0.4	330.0	
7/2/12 14:00	4.67	236.8	9.9	300.8		3	6.75	42.75	4.30	8.04	0.04	3.74	3,264	48.9%	9.9	10.3	4	3,259	0.0	66.9	0.0	344.0	3,259	0.4	330.3	
7/3/12 10:21	20.35	257.2	10.7	325.7		3	8.50	44.5	4.17	8.04	0.04	3.87	3,409	51.1%	19.0	10.3	4	3,404	0.0	145.1	0.0	171.1	3,404	0.4	317.7	
7/3/12 15:26	5.08	262.3	10.9	330.8		3	9.00	45	4.11	8.04	0.04	3.93	3,476	52.1%	10.1	10.1	4	3,471	0.0	67.0	0.0	316.4	3,471	0.4	317.7	
7/5/12 10:00	42.57	304.8	12.7			4	0.75	48.75	3.81	8.04	0.04	4.23	3,811	57.1%	15.1	9.5	4	3,806	0.0	334.9	0.0	188.8	3,806	0.3	299.7	
7/5/12 17:05	7.08	311.9	13.0			4	1.50	49.5	3.75	8.04	0.04	4.29	3,877	58.1%	12.3	9.4	4	3,873	0.0	66.8	0.0	226.4	3,873	0.3	298.0	
7/6/12 8:12	15.12	327.0	13.6	395.6		4	2.50	50.5	3.66	8.04	0.04	4.38	3,977	59.6%	16.9	9.2	4	3,973	0.0	100.1	0.0	158.9	3,973	0.3	291.6	
7/6/12 15:16	7.07	334.1	13.9	402.7		4	3.00	51	3.60	8.04	0.04	4.44	4,044	60.6%	11.6	9.0	4	4,040	0.0	66.6	0.0	226.2	4,040	0.3	290.2	
7/9/12 10:00	66.73	400.8	16.7			4	8.50	56.5	3.15	8.04	0.04	4.89	4,539	68.1%	12.0	7.8	4	4,534	0.0	494.5	0.0	177.8	4,534	0.3	271.5	
7/9/12 15:00	5.00	405.8	16.9			4	9.00	57	3.10	8.04	0.04	4.94	4,593	68.9%	8.0	7.6	4	4,589	0.0	54.2	0.0	260.3	4,589	0.2	271.4	
7/10/12 9:05	18.08	423.9	17.7	492.5		4	10.25	58.25	3.00	8.04	0.04	5.04	4,701	70.5%	13.7	7.4	4	4,697	0.0	107.9	0.0	143.2	4,697	0.2	265.9	
7/10/12 16:14	7.15	431.1	18.0	499.5		4	11.00	59	2.95	8.04	0.04	5.09	4,754	71.3%	10.6	7.2	4	4,750	0.0	53.7	0.0	180.2	4,750	0.2	264.5	
7/11/12 8:50	16.60	447.7	18.7			5	-	5	2.84	8.04	0.04	5.20	4,872	73.1%	10.6	6.9	4	4,868	0.0	117.4	0.0	169.7	4,868	0.2	261.0	
7/11/12 15:40	6.83	454.5	18.9	523.0		5	1.00	61	2.78	8.04	0.04	5.26	4,935	74.0%	7.8	6.7	4	4,931	0.0	63.6	0.0	223.2	4,931	0.2	260.4	
7/12/12 8:15	16.58	471.1	19.6	539.7		5	2.00	62	2.69	8.04	0.04	5.35	5,030	75.4%	12.0	6.4	4	5,026	0.0	94.7	0.0	137.0	5,026	0.2	256.0	
7/12/12 15:00	6.75	477.8	19.9	546.4		5	2.50	62.5	2.63	8.04	0.04	5.41	5,093	76.4%	7.1	6.2	4	5,088	0.0	62.7	0.0	222.8	5,088	0.2	255.6	
7/13/12 15:15	24.25	502.1	20.9	570.7		5	4.50	64.5	2.48	8.04	0.04	5.56	5,248	78.7%	9.3	5.7	4	5,243	0.0	154.9	0.0	153.3	5,243	0.2	250.6	
7/17/12 8:45	89.50	591.6	24.6			5	11.25	71.25	1.90	8.04	0.04	6.14	5,818	87.2%	5.6	3.6	4	5,813	0.0	570.2	0.0	152.9	5,813	0.2	235.8	
7/18/12 8:20	23.58	615.2	25.6	683.9		6	1.00	73	1.75	8.04	0.04	6.29	5,956	89.3%	5.1	3.1	4	5,952	0.0	138.4	0.0	140.8	5,952	0.2	232.2	
7/18/12 15:42	7.37	622.5	25.9	691.2		6	1.50	73.5	1.70	8.04	0.04	6.34	6,001	90.0%	4.5	2.9	4	5,997	0.0	45.1	0.0	147.1	5,997	0.2	231.2	
7/19/12 9:03	17.35	639.9	26.7	708.6		6	3.00	75	1.60	8.04	0.04	6.44	6,090	91.3%	4.7	2.5	4	6,086	0.0	88.7	0.0	122.7	6,086	0.2	228.3	
7/19/12 15:40	6.62	646.5	26.9	715.2		6	3.50	75.5	1.54	8.04	0.04	6.50	6,142	92.1%	2.8	2.3	4	6,138	0.0	52.2	0.0	189.3	6,138	0.2	227.9	
7/20/12 8:30	16.83	663.3	27.6	731.9		6	5.00	77	1.44	8.04	0.04	6.60	6,227	93.4%	3.6	2.0	4	6,223	0.0	85.1	0.0	121.4	6,223	0.2	225.2	
7/20/12 15:25	6.92	670.2	27.9	738.8		6	5.50	77.5	1.38	8.04	0.04	6.66	6,277	94.1%	2.3	1.7	4	6,273	0.0	49.9	0.0	173.2	6,273	0.2	224.6	
7/22/12 15:15	47.83	718.1	29.9	786.7		6	10.00	82	1.00	8.04	0.04	7.04	6,570	98.5%	0.7	0.4	4	6,566	0.0	293.0	0.0	147.0	6,566	0.1	219.4	
7/23/12 9:30	18.25	736.3	30.7	805.0		6	11.50	83.5	0.85	8.04	0.04	7.19	6,673	100.1%	0.0	0.0	4	6,669	0.0	103.0	0.0	135.4	6,669	0.1	217.4	System shut down after tank gauging
7/24/2012 12:00	0.00	736.3	30.7			0	0	0	8	8.07	0.01	0.07	12	0%	NA	NA	0.5	11	0.0	0.0	0.0	0.0	6,669	0.01716	217.4	Tank pumped out, system re-started
7/24/12 14:30	2.50	738.8	30.8			0	2.50	2.5	7.70	8.04	0.04	0.34	122	1.8%	6.4	29.7	4	117	3.7	106.0	35.3	1017.7	6,786	0.1	220.4	
7/25/12 8:45	18.25	757.1	31.5			0	4.50	4.5	7.54	8.04	0.04	0.50	205	3.1%	59.2	29.7	4	200	0.0	83.1	0.0	109.3	6,869	0.1	217.8	
7/26/12 10:05	25.33	782.4	32.6			0	6.50	6.5	7.34	8.04	0.04	0.70	326	4.9%	55.3	29.6	4	322	0.0	121.1	0.0	114.7	6,990	0.1	214.4	Syst down - suspected power outage; restarted
7/28/12 12:55	50.83	833.3	34.7	876.2		0	10.50	10.5	7.04	8.04	0.04	1.00														

Table 7
Phase II System LNAPL Recovery Summary
 Former Amoco Terminal
 Superior, WI

Superior Barge Dock Product Skimming System - Phase II				Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																						
5 LNAPL Skimming Wells on C. Reiss property				Diameter of tank = 8.00 feet					Depth of tank from top of bung = 8.08 feet																	
Product Recovery Table				Length of tank = 18.67 feet					Depth of bung = 0.08 feet																	
				Full Volume of tank = 7,019 gallons					95% full volume of tank = 6,668 gallons																	
Operational Time																										
Date/Time	Calendar Period hours	Total hours	Total days	Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimated # of days until tank full (95%)	Cumulative Estimated # of days until tank full (95%)	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons / day)	Period Product recovery rate (gallons / day)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons / day)	Cumulative Product recovery rate (gallons / day)	Notes
8/27/12 9:30	44.58	1,525.8	65.4	1,568.7	44.6	3	8.25	44.25	4.19	7.93	0.15	3.74	3,386	50.8%	39.0	21.4	30	3,356	0.0	156.2	0.0	84.1	10,025	0.5	153.4	
8/28/12 9:15	23.75	1,549.6	66.4	1,592.5	23.8	3	9.00	45	4.12	7.92	0.16	3.80	3,465	52.0%	42.3	21.0	33	3,431	3.1	75.1	3.1	75.7	10,100	0.5	152.2	
8/29/12 15:20	30.08	1,579.7	67.6	1,622.6	30.1	3	10.00	46	4.04	7.91	0.17	3.87	3,554	53.3%	45.3	20.7	37	3,517	3.2	86.2	2.5	68.7	10,186	0.5	150.7	
8/30/12 10:05	18.75	1,598.4	68.4	1,641.3	18.7	4	10.75	58.75	3.98	7.91	0.17	3.93	3,621	54.3%	35.4	20.3	37	3,584	0.0	67.0	0.0	86.0	10,253	0.5	149.9	
8/31/12 11:29	25.40	1,623.8	69.4	1,666.7	25.4	4	11.00	59	3.90	7.90	0.18	4.00	3,710	55.6%	36.4	19.9	40	3,670	3.3	86.0	3.1	81.3	10,339	0.6	148.9	
9/3/12 11:25	71.93	1,695.8	72.4	1,738.7	72.0	4	2.00	50	3.70	7.90	0.18	4.20	3,933	59.0%	36.8	18.8	40	3,893	0.0	222.8	0.0	74.3	10,562	0.6	145.8	
9/8/12 15:55	124.50	1,820.2	77.6	1,863.1	124.4	4	6.00	54	3.40	7.87	0.21	4.47	4,265	64.0%	38.7	17.1	50	4,215	10.3	321.7	2.0	62.1	10,884	0.6	140.2	
9/10/12 10:15	42.33	1,862.7	79.4	1,905.6	42.5	4	6.75	54.75	3.30	7.87	0.21	4.57	4,375	65.6%	37.0	16.6	50	4,325	0.0	109.8	0.0	62.0	10,994	0.6	138.5	
9/11/12 9:25	23.17	1,885.7	80.4	1,928.6	23.0	4	8.00	56	3.22	7.85	0.23	4.63	4,462	66.9%	26.4	16.0	58	4,405	7.3	80.2	7.6	83.6	11,074	0.7	137.8	
9/12/12 9:46	24.35	1,910.1	81.4	1,953.0	24.4	4	9.00	57	3.15	7.85	0.23	4.70	4,539	68.1%	28.4	15.5	58	4,481	0.0	76.2	0.0	75.0	11,150	0.7	137.0	
9/13/12 14:40	28.90	1,939.6	82.6	1,982.5	29.5	4	9.50	57.5	3.07	7.85	0.23	4.78	4,625	69.4%	29.0	15.0	58	4,568	0.0	86.7	0.0	70.5	11,237	0.7	136.0	
9/14/12 15:05	24.42	1,963.4	83.6	2,006.3	23.8	4	10.50	58.5	3.00	7.82	0.26	4.82	4,701	70.5%	30.5	14.6	69	4,632	11.5	63.9	11.6	64.5	11,300	0.8	135.2	
9/17/12 12:30	69.42	2,033.0	86.5	2,075.9	69.6	5	0.50	60.5	2.85	7.82	0.26	4.97	4,861	72.9%	32.7	13.6	69	4,792	0.0	160.4	0.0	55.3	11,461	0.8	132.5	
9/18/12 8:25	19.92	2,052.7	87.3	2,095.6	19.7	5	1.00	61	2.82	7.82	0.26	5.00	4,893	73.4%	45.8	13.5	69	4,824	0.0	31.8	0.0	38.8	11,493	0.8	131.6	System shut down for recharge testing from 8:25am on 9-18-12 to 9:55 on 9-19-12
9/20/12 8:10	47.75	2,100.5	89.3	2,143.4	47.8	5	2.50	62.5	2.66	7.75	0.33	5.09	5,061	75.9%	23.0	12.3	99	4,963	29.5	138.9	14.8	69.8	11,632	1.1	130.2	
9/21/12 12:05	27.92	2,128.4	90.5	2,171.3	27.9	5	3.50	63.5	2.60	7.74	0.34	5.14	5,124	76.8%	31.0	12.0	103	5,021	4.5	58.0	3.8	49.9	11,690	1.1	129.2	
9/25/12 15:45	99.67	2,228.0	94.6	2,270.9	99.6	5	6.00	66	2.38	7.74	0.34	5.36	5,349	80.2%	24.3	10.5	103	5,246	0.0	225.5	0.0	54.3	11,915	1.0891	125.9	
9/26/12 12:45	21.00	2,249.2	95.5	2,292.1	21.2	5	6.5	66.5	2.33	7.74	0.34	5.41	5,400	81.0%	22.2	10.1	103	5,297	0.0	50.4	0.0	57.0	11,966	1.07903	125.3	
9/27/12 10:55	22.17	2,271.3	96.4	2,314.2	22.1	5	7	67	2.29	7.74	0.34	5.45	5,440	81.6%	28.2	9.9	103	5,337	0.0	40.1	0.0	43.5	12,006	1.06872	124.5	
9/28/12 13:10	26.25	2,297.4	97.5	2,340.3	26.1	5	7.75	67.75	2.22	7.73	0.35	5.51	5,509	82.6%	19.4	9.4	108	5,402	4.5	65.0	4.2	59.8	12,071	1.10334	123.8	
10/2/12 9:30	92.33	2,389.8	101.4	2,432.7	92.4	5	10.5	70.5	1.99	7.70	0.38	5.71	5,733	86.0%	17.2	7.7	122	5,611	14.0	209.4	3.6	54.4	12,280	1.1994	121.1	
10/3/12 15:30	30.00	2,419.8	102.6	2,462.7	30.0	5	11.25	71.25	1.92	7.70	0.38	5.78	5,799	87.0%	16.4	7.2	122	5,677	0.0	66.2	0.0	53.0	12,346	1.18479	120.3	
10/4/12 15:18	23.80	2,443.6	103.6	2,486.5	23.8	6	0	6	1.87	7.70	0.38	5.83	5,846	87.7%	17.4	6.9	122	5,724	0.0	46.8	0.0	47.2	12,393	1.17345	119.6	
10/5/12 11:30	20.20	2,463.9	104.5	2,506.8	20.3	6	0.5	72.5	1.83	7.70	0.38	5.87	5,883	88.2%	17.9	6.6	122	5,761	0.0	37.1	0.0	43.9	12,430	1.16394	119.0	
10/8/12 9:40	70.17	2,534.0	107.4	2,576.9	70.1	6	2	74	1.69	7.70	0.38	6.01	6,010	90.1%	15.1	5.6	122	5,889	0.0	127.4	0.0	43.6	12,557	1.13228	117.0	
10/9/12 10:00	24.33	2,558.3	108.4	2,601.2	24.3	6	3	75	1.63	7.70	0.38	6.07	6,064	90.9%	11.5	5.2	122	5,942	0.0	53.4	0.0	52.7	12,611	1.1217	116.4	
10/10/12 15:15	29.25	2,587.6	109.6	2,630.5	29.3	6	3.75	75.75	1.56	7.69	0.39	6.13	6,125	91.8%	11.7	4.7	126	5,998	4.8	56.5	3.9	46.3	12,667	1.15283	115.6	
10/11/12 15:00	23.75	2,611.6	110.6	2,654.5	24.0	6	4.5	76.5	1.5	7.69	0.39	6.19	6,176	92.6%	9.5	4.3	126	6,050	0.0	51.6	0.0	51.6	12,719	1.14241	115.0	
10/12/12 11:25	20.42	2,632.1	111.5	2,675.0	20.5	6	5	77	1.45	7.69	0.39	6.24	6,219	93.3%	9.1	3.9	126	6,092	0.0	42.4	0.0	49.6	12,761	1.13365	114.5	
10/15/12 11:45	72.33	2,704.6	114.5	2,747.5	72.5	6	7.5	79.5	1.25	7.69	0.39	6.44	6,382	95.7%	5.3	2.5	126	6,256	0.0	163.2	0.0	54.0	12,925	1.10374	112.9	
10/16/12 13:30	25.75	2,729.7	115.5	2,772.6	25.1	6	6.25	78.25	1.38	8.04	0.04	6.59	6,219	93.3%	NA	NA	4	6,215	NA	NA	NA	NA	12,883	NA	NA	Water pumped out of tank w/ pneumatic pump
10/17/12 9:30	20.00	2,749.9	116.4	2,792.8	20.2	6	6.75	78.75	1.32	8.04	0.04	6.72	6,326	94.9%	5.9	3.1	4	6,322	0.0	49.0	0.0	58.2	12,991	0.03615	111.6	
10/18/12 15:05	29.58	2,779.4	117.6	2,822.3	29.5	6	7.5	79.5	1.25	8.04	0.04	6.79	6,382	95.7%	6.3	2.6	4	6,378	0.0	55.9	0.0	45.5	13,047	0.03577	110.9	
10/19/12 10:14	19.15	2,798.5	118.4	2,841.4	19.1	6	8.25	80.25	1.19	8.04	0.04	6.85	6,429	96.4%	4.1	2.2	4	6,425	0.0	46.9	0.0	58.9	13,094	0.03553	110.6	System shut down on power outage for approx. 1 hour
10/22/12 10:15	72.02	2,868.9	121.3	2,911.8	70.4	7	10.5	94.5	1	8.04	0.04	7.04	6,570	98.5%	2.0	0.9	4	6,566	0.0	141.2	0.0	48.1	13,235	0.03467	109.1	
10/23/12 1:46	15.52	2,884.4	122.0	2,927.3	NA	NM	NM	NM	0.94	8.04	0.04	7.1	6,612	99.2%	NA	NA	4	6,608	0.0	42.1	0.0	65.2	13,277	0.03449	108.9	System shut down on high level alarm
10/23/2012 9:20	7.57	2,884.4	122.0	2,927.3	0.0	0	0	0	8.04	8.08	0	0.04	4	0%	NA	61.2	0.0	4	0.0	0.0	0.0	0.0	13,281	0	108.9	Tank pumped out, re-started system
10/24/12 13:55	28.58	2,912.9	123.2	2,955.9	28.6	0	1	1	7.82	8.08	0	0.26	69	1.0%	121.1	60.9	0	69	0.0	64.9	0.0	54.5	13,346	0	108.4	
10/25/12 12:15	22.33	2,935.0	124.1	2,977.9	22.0	0	2.5	2.5	7.74	8.08	0	0.34	103	1.5%	177.4	60.9	0	103	0.0	33.9	0.0	37.0	13,380	0	107.8	
10/26/12 12:20	24.08	2,959.2	125.1	3,002.1	24.2	3	0.5	36.5	7.64	8.08	0	0.44	151	2.3%	136.7	60.7	0	151	0.0	48.1	0.0	47.7	13,428		107.3	
10/27/12 14:20	26.00	2,980.8	126.0	3,023.7	21.6	4	25	73	7.55	8.08	0	0.53	199	3.0%	121.4	60.5	0	199	0.0	48.0	0.0	53.3	13,476		107.0	
11/2/12 9:00	138.67	3,119.4	131.8	3,162.3	138.6	9	0	9	7.16	8.00	0.08	0.84	448	7%	151.4	59.8	12	436	11.9	237.3	2.1	41.1	13,713		104.1	
11/6/12 9:30	96.50	3,193.2	134.8	3,236.1	73.8	16.0	25	216.76	6.98	8.00	0.08	1.02	582	9%	140.2	59.3	12	570	0.0	133.5	0.0	43.4	13,847		102.7	System down ~ 10 hrs due to power outage
11/14/12 14:30	197.00	3,390.7	143.1	3,433.6	197.5	1	4.5	16.5	6.53	7.92	0.16	1.39	955	14%	133.8	57.6	33.5	921	21.6	351.5	2.6	42.7	14,198		99.2	Ice in base of tank; WL @ top of ice
11/15/12 15:05	24.58	3,415.3	144.1	3,458.2	24.6	1	5	17	6.49	7.92	0.16	1.43	990	15%	164.0	57.5	33.5	957	0.0	35.5	0.0	34.6	14,234		98.8	Ice in base of tank; WL @ top of ice
11/21/12 9:45	138.67	3,464.9	146.2	3,507.8	49.6</																					

Table 7
Phase II System LNAPL Recovery Summary
 Former Amoco Terminal
 Superior, WI

Superior Barge Dock Product Skimming System - Phase II				Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																						
5 LNAPL Skimming Wells on C. Reiss property				Diameter of tank = 8.00 feet					Depth of tank from top of bung = 8.08 feet																	
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Operational Time																										
Date/Time	Calendar Period hours	Total hours	Total days	Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimated # of days until tank full (95%)	Cumulative Estimated # of days until tank full (95%)	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons / day)	Period Product recovery rate (gallons / day)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons / day)	Cumulative Product recovery rate (gallons / day)	Notes
6/17/2013 12:40	95.17	4,479.0	188.4	4521.9	95.1	4	7	55	3.29	7.90	0.18	4.61	4,386	66%	45.7	24.4	39.9	4,346	0.0	197.9	0.0	50.0	17,623		93.5	
6/20/2013 8:40	68.00	4,547.3	191.3	4590.2	68.3	4	8.5	56.5	3.16	7.90	0.18	4.74	4,528	68%	42.9	23.0	39.9	4,488	0.0	141.8	0.0	49.8	17,765		92.9	
6/27/2013 15:01	174.35	4,721.3	198.5	4764.2	174.0	5	9.5	69.5	2.07	6.84	1.24	4.77	5,656	85%	15.4	11.0	692.3	4,964	652.3	475.9	90.0	65.6	18,241		91.9	Significant rainfall, adjusted pumps
6/28/2013 7:30	16.48	4,737.9	199.2	4780.8	16.6	5	10	70	2.03	6.84	1.24	4.81	5,694	85%	17.5	10.6	692.3	5,002	0.0	38.5	0.0	55.7	18,279		91.8	
7/2/2013 12:43	101.22	4,840.3	203.5	4883.2	102.4	6	0.5	72.5	1.83	6.84	1.24	5.01	5,883	88%	17.8	8.7	692.3	5,191	0.0	188.3	0.0	44.1	18,467		90.8	
7/3/2013 14:05	25.37	4,864.5	204.5	4907.4	24.2	6	1	73	1.78	6.84	1.24	5.06	5,929	89%	16.2	8.2	692.3	5,236	0.0	45.9	0.0	45.6	18,513		90.5	
7/9/2013 11:28	141.38	5,005.8	210.4	5048.7	141.3	6	4	76	1.52	6.84	1.24	5.32	6,159	92%	13.0	5.7	692.3	5,467	0.0	230.6	0.0	39.2	18,744		89.1	Pumped 700 gallons of water out of tank
7/11/2013 13:20	49.87	5,055.7	212.4	5098.6	49.9	5	8.5	68.5	2.15	7.88	0.2	5.73	5,578	84%	35.2	12.3	46.7	5,531	-645.5	64.4	-310.5	31.0	18,808		88.5	
7/18/2013 12:42	167.37	5,223.1	219.4	5266.0	167.4	6	0.1	72.1	1.85	7.88	0.2	6.03	5,864	88%	19.6	9.2	46.7	5,818	0.0	286.1	0.0	41.0	19,094		87.0	
7/19/2013 13:20	24.63	5,247.7	220.4	5290.6	24.6	6	0.5	72.5	1.8	7.88	0.2	6.08	5,910	89%	16.8	8.7	46.7	5,864	0.0	46.1	0.0	45.0	19,141		86.8	
7/25/2013 11:02	141.70	5,389.4	226.3	5432.3	141.7	6	2.75	74.75	1.62	7.88	0.2	6.26	6,072	91%	21.7	7.0	46.7	6,026	0.0	161.9	0.0	27.4	19,303		85.3	
7/29/2013 11:58	96.93	5,486.1	230.4	5529.0	96.7	6	4	76	1.5	7.88	0.2	6.38	6,176	93%	19.0	5.8	46.7	6,130	0.0	104.1	0.0	25.8	19,407		84.2	
8/1/2013 11:00	71.03	5,557.4	233.3	5600.3	71.3	6	6	78	1.36	7.88	0.2	6.52	6,294	94%	9.5	4.5	46.7	6,247	0.0	117.1	0.0	39.4	19,524		83.7	
8/2/2013 11:33	24.55	5,582.0	234.4	5624.9	24.6	6	6.5	78.5	1.3	7.88	0.2	6.58	6,342	95%	6.9	3.9	46.7	6,295	0.0	48.7	0.0	47.5	19,572		83.5	
8/2/2013 13:02	1.48	5,583.4	234.4	5626.3	1.4	0	2.5	2.5	7.8	8.02	0.06	0.22	77	1%	NA	78.7	7.7	69	0.0	0.0	0.0	0.0	19,642		83.8	Tank pumped out, system re-started
8/4/2013 8:05	43.05	5,626.5	236.2	5669.4	43.1	0	2.75	2.75	7.68	8.02	0.06	0.34	131	2%	217.4	78.4	7.7	123	0.0	54.0	0.0	30.1	19,696		83.4	
8/13/2013 15:13	223.13	5,700.7	239.3	5743.6	74.2	0	5	5	7.51	8.02	0.06	0.51	222	3%	220.2	78.0	7.7	214	0.0	90.5	0.0	29.3	19,786		82.7	
8/15/2013 11:28	44.25	5,723.8	240.3	5766.7	23.1	0	6.5	6.5	7.33	8.00	0.08	0.67	332	5%	57.3	76.5	11.9	320	4.2	106.4	4.3	110.5	19,893		82.8	System re-started after power outage
8/16/2013 8:25	20.95	5,744.8	241.2	5787.7	21.0	0	7.25	7.25	7.29	8.00	0.08	0.71	359	5%	209.5	76.4	11.9	347	0.0	26.4	0.0	30.1	19,919		82.6	
8/22/2013 13:10	148.75	5,893.8	247.4	5936.7	149.0	0	10.25	10.25	7.04	8.00	0.08	0.96	536	8%	214.4	75.5	11.9	524	0.0	177.6	0.0	28.6	20,097		81.2	
8/27/2013 9:30	116.33	6,009.8	252.2	6052.7	116.0	1	0.25	12.25	6.87	8.00	0.08	1.13	668	10%	219.7	74.8	11.9	656	0.0	132.0	0.0	27.3	20,229		80.2	
8/29/2013 10:33	49.05	6,058.9	254.2	6101.8	49.1	1	1	13	6.8	8.00	0.08	1.2	725	11%	214.5	74.5	11.9	713	0.0	56.7	0.0	27.7	20,285		79.8	
9/6/2013 11:50	193.28	6,252.1	262.3	6295.0	193.2	1	4	16	6.55	8.00	0.08	1.45	937	14%	217.2	73.3	11.9	925	0.0	212.4	0.0	26.4	20,498		78.1	
9/12/2013 16:00	148.17	6,400.8	268.5	6443.7	148.7	1	6	18	6.38	8.00	0.08	1.62	1,090	16%	226.8	72.5	11.9	1,078	0.0	152.4	0.0	24.6	20,650		76.9	
9/19/2013 16:05	168.08	6,568.3	275.5	6611.2	167.5	1	8.25	20.25	6.2	8.00	0.08	1.8	1,257	19%	225.4	71.6	11.9	1,245	0.0	167.6	0.0	24.0	20,818		75.6	
9/27/2013 10:30	186.42	6,755.1	283.3	6798.0	186.8	1	10.5	22.5	6.01	8.00	0.08	1.99	1,440	22%	222.4	70.5	11.9	1,428	0.0	183.0	0.0	23.5	21,001		74.1	
10/3/2013 15:45	149.25	6,904.1	289.5	6947.0	149.0	2	0.5	24.5	5.87	8.00	0.08	2.13	1,579	24%	228.3	69.7	11.9	1,567	0.0	138.4	0.0	22.3	21,139		73.0	
10/10/2013 16:30	168.75	7,073.3	296.5	7116.2	169.2	2	2	26	5.73	8.00	0.08	2.27	1,720	26%	247.1	69.0	11.9	1,708	0.0	141.2	0.0	20.0	21,280		71.8	1 pump offline
10/18/2013 11:24	186.90	7,259.7	304.3	7302.6	186.4	2	3.75	27.75	5.59	8.00	0.08	2.41	1,863	28%	259.8	68.2	11.9	1,852	0.0	143.7	0.0	18.5	21,424		70.4	All pumps online
10/21/2013 17:15	77.85	7,337.2	307.5	7380.1	77.5	2	4.5	28.5	5.51	8.00	0.08	2.49	1,947	29%	258.5	67.5	11.9	1,935	0.0	83.1	0.0	25.7	21,507		69.9	
10/25/2013 15:35	94.33	7,432.2	311.5	7475.1	95.0	2	5.75	29.75	5.42	8.00	0.08	2.58	2,041	31%	194.2	66.7	11.9	2,029	0.0	94.3	0.0	23.8	21,601		69.4	
11/1/2013 15:15	167.67	7,599.9	318.5	7642.8	167.7	2	7.5	31.5	5.26	8.00	0.08	2.74	2,211	33%	183.7	65.2	11.9	2,199	0.0	169.6	0.0	24.3	21,771		68.4	
11/7/2013 14:00	142.75	7,743.4	324.4	7786.3	143.5	2	9	33	5.15	8.00	0.08	2.85	2,328	35%	220.1	64.3	11.9	2,317	0.0	117.9	0.0	19.7	21,889		67.5	
11/14/2013 8:00	162.00	7,906.2	331.2	7949.1	162.8	2	10.5	34.5	5.01	7.95	0.13	2.94	2,480	37%	204.8	63.0	24.6	2,455	12.7	138.7	1.9	20.5	22,028		66.5	
11/20/2013 12:30	148.50	8,053.6	337.4	8096.5	147.4	3	1	37	4.83	7.90	0.18	3.07	2,676	40%	135.3	60.6	39.9	2,636	15.4	181.2	2.5	29.5	22,209		65.8	End operating Season, tank pumped
11/20/2013 14:00	1.50	8,054.1	337.4	8097.0	0.5	0	3.5	3.5	7.79	7.90	0.18	0.11	81	1%	223.3	100.1	39.9	41	0.0	0.0	0.0	29.5	22,209		65.8	0' 3.5" post pumping tank reading
4/29/2014 14:28	3,840.47	8,058.0	337.5	8100.9	3.9	0	5.5	5.5	7.47	7.90	0.18	0.43	245	4%	6.4	96.9	39.9	205	0.0	163.7	0.0	1007.5	22,373		66.3	2014 System Re-start April 29
4/30/2014 16:20	25.87	8,083.6	338.60417	8126.5	25.6	0	7.5	7.5	7.28	7.76	0.32	0.48	365	5%	101.9	95.1	94.2	271	54.2	66.0	50.8	61.9	22,439		66.3	
5/1/2014 15:25	23.08	8,106.8	339.57083	8149.7	23.2	0	8.25	8.25	7.19	7.75	0.33	0.56	427	6%	105.1	94.2	98.6	328	4.4	57.4	4.6	59.4	22,496		66.2	
5/2/2014 15:20	23.92	8,130.7	340.56667	8173.6	23.9	0	9.25	9.25	7.11	7.75	0.33	0.64	484	7%	107.5	93.4	98.6	386	0.0	57.3	0.0	57.5	22,554		66.2	
5/5/2014 17:40	74.33	8,205.0	343.6625	8247.9	74.3	0	11.5	11.5	6.92	7.75	0.33	0.83	628	9%	129.7	91.4	98.6	530	0.0	144.1	0.0	46.6	22,698		66.0	
5/6/2014 15:30	21.83	8,227.2	344.5875	8270.1	22.2	1	0.5	12.5	6.87	7.75	0.33	0.88	668	10%	139.9	90.9	98.6	570	0.0	39.7	0.0	42.9	22,738		66.0	
5/8/2014 16:20	48.83	8,275.6	346.60417	8318.5	48.4	1	1.5	13.5	6.77	7.75	0.33	0.98	750	11%	146.7	89.9	98.6	651	0.0	81.4	0.0	40.3	22,819		65.8	
5/13/2014 7:50	111.50	8,387.1	351.25	8430	111.5	1	4	16	6.56	7.75	0.33	1.19	928	14%	149.0	87.7	98.6	830	0.0	178.9	0.0	38.5	22,998		65.5	~100 gal water removed
5/15/2014 17:17	57.45	8,444.8	353.65417	8487.7	57.7	1	3.75	15.75	6.59	8.03	0.05	1.44	902	14%	208.4	88.4	5.9	896	-92.7	66.5	-38.6	27.7	23,064		65.2	
5/20/2014 8:25	111.13	8,555.7	358.275	8598.6	110.9	1	5.75	17.75	6.41	8.05	0.03	1.64	1062	16%	158.7	86.5	2.7	1,060	-3.1	163.2	-0.7	35.3	23,228		64.8	

Table 7
Phase II System LNAPL Recovery Summary
 Former Amoco Terminal
 Superior, WI

Superior Barge Dock Product Skimming System - Phase II				Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																						
5 LNAPL Skimming Wells on C. Reiss property				Diameter of tank = 8.00 feet			Depth of tank from top of bung = 8.08 feet			Length of tank = 18.67 feet			Depth of bung = 0.08 feet			Full Volume of tank = 7,019 gallons			95% full volume of tank = 6,668 gallons							
Product Recovery Table				Operational Time																						
Date/Time	Calendar Period hours	Total hours	Total days	Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimated # of days until tank full (95%)	Cumulative Estimated # of days until tank full (95%)	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons / day)	Period Product recovery rate (gallons / day)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons / day)	Cumulative Product recovery rate (gallons / day)	Notes
7/26/2017 12:00	166.00	25,305.0	1060.05	25,441.10	165.9	1	8.4	20.4	6.14	7.95	0.13	1.81	1314.36	20%	555.6	168.042	24.56	1289.80	0.0	66.6	0.0	9.6	33,774		31.9	
7/27/2017 13:24	25.40	25,330.5	1061.11	25,466.60	25.5	1	9.0	21	6.11	7.94	0.14	1.83	1343.16	20%	218.3	167.177	27.44	1315.72	2.9	25.9	2.7	24.4	33,800		31.9	
8/4/2017 12:00	190.60	25,520.9	1069.04	25,657.00	190.4	1	9.9	21.9	6.07	7.95	0.13	1.88	1381.79	21%	1010.4	167	24.56	1357.23	-2.9	41.5	-0.4	5.2	33,842		31.7	
8/8/2017 12:40	96.67	25,617.6	1073.07	25,753.70	96.7	1	10.4	22.4	6.01	7.95	0.13	1.94	1440.21	22%	360.6	165.491	24.56	1415.65	0.0	58.4	0.0	14.5	33,900		31.6	
8/15/2017 13:05	168.42	25,786.1	1080.09	25,922.20	168.5	1	11.5	23.5	5.94	7.95	0.13	2.01	1509.07	23%	526.0	164.047	24.56	1484.51	0.0	68.9	0.0	9.8	33,969		31.5	
8/23/2017 16:42	195.62	25,981.7	1088.24	26,117.80	195.6	2	0.2	24.2	5.87	7.95	0.13	2.08	1578.64	24%	596.2	162.722	24.56	1554.08	0.0	69.6	0.0	8.5	34,039		31.3	
8/30/2017 9:20	160.63	26,142.6	1094.95	26,278.70	160.9	2	1.5	25.5	5.75	7.93	0.15	2.18	1699.49	25%	289.7	159.299	30.42	1669.08	5.9	115.0	0.9	17.2	34,154		31.2	
8/30/2017 2:36	0.00	26,142.6	1095.16	26,283.80	0.0	0	1.7	1.7	7.84	7.94	0.14	0.10	61.3509	1%	NA	211.856	27.44	33.91	0.0	0.0	0.0	0.0	34,154		31.2	Mid Summer Pump Out
9/7/2017 17:45	207.15	26,337.7	1103.29	26,478.90	195.1	0	2.6	2.6	7.69	7.95	0.13	0.26	126.355	2%	783.4	210.91	24.56	101.79	-2.9	67.9	-0.4	8.4	34,222		31.0	
9/14/2017 22:00	172.25	26,500.2	1110.06	26,641.40	162.5	0	3.4	3.4	7.56	7.94	0.14	0.38	193.554	3%	681.6	209.63	27.44	166.12	2.9	64.3	0.4	9.5	34,286		30.9	
9/19/2017 14:50	112.83	26,621.9	1115.13	26,763.10	121.7	0	4.8	4.8	7.49	7.95	0.13	0.46	233.281	3%	765.9	209.036	24.56	208.72	-2.9	42.6	-0.6	8.4	34,329		30.8	
9/27/2017 13:15	190.42	26,811.9	1123.05	26,953.10	190.0	0	6.1	6.1	7.37	7.95	0.13	0.58	306.496	5%	687.9	207.682	24.56	281.94	0.0	73.2	0.0	9.2	34,402		30.6	
10/4/2017 15:01	169.77	26,981.4	1130.11	27,122.60	169.5	0	7.3	7.3	7.29	7.95	0.13	0.66	358.582	5%	855.6	206.964	24.56	334.02	0.0	52.1	0.0	7.4	34,454		30.5	
10/12/2017 16:05	193.07	27,174.7	1138.16	27,315.90	193.3	0	8.5	8.5	7.17	7.94	0.14	0.77	441.173	7%	629.2	205.235	27.44	413.73	2.9	79.7	0.4	9.9	34,534		30.3	
10/19/2017 12:40	164.58	27,339.2	1145.02	27,480.40	164.5	0	9.5	9.5	7.08	7.95	0.13	0.87	506.355	8%	620.6	203.908	24.56	481.79	-2.9	68.1	-0.4	9.9	34,602		30.2	
10/26/2017 18:35	173.92	27,513.2	1152.27	27,654.40	174.0	0	10.6	10.6	6.99	7.94	0.14	0.95	574.104	9%	681.1	202.564	27.44	546.67	2.9	64.9	0.4	8.9	34,667		30.1	
11/8/2017 8:40	302.08	27,534.0	1153.13	27,675.20	20.8	0	11.6	11.6	6.94	7.88	0.20	0.94	612.79	9%	270.8	201.317	46.74	566.05	19.3	19.4	22.3	22.4	34,686		30.1	Ice at Base of Tank, WL is top of ice. System off since 10/27 due to power outage.
11/8/2017 10:15	0.00	27,534.0	1153.14	27,675.40	0.0	0	3.5	3.5	7.86	7.87	0.21	0.01	53.8853	1%	NA	219.9	50.27	3.61	0.0	0.0	0.0	0.0	34,686		30.1	Ice at Base of Tank, WL is top of ice, After pump out
5/14/2018 10:10	4,487.92	27,534.0	1153.14	27,675.40	0.0	0	1.9	1.9	7.86	7.87	0.21	0.01	53.8853	1%	NA	219.9	50.27	3.61	0.0	0.0	0.0	0.0	34,686		30.1	T=0 Conditions (Start of Season) - Ice Dam Caused Diff. in Dial
5/15/2018 16:15	30.08	27,562.5	1154.33	27,703.90	28.5	0	3.7	3.7	7.59	7.87	0.21	0.28	177.256	3%	62.5	215.255	50.27	126.98	0.0	123.4	0.0	103.9	34,809		30.2	
5/23/2018 17:15	193.00	27,755.6	1162.38	27,897.00	193.1	0	6.6	6.6	7.33	7.87	0.21	0.54	332.228	5%	329.0	210.642	50.27	281.96	0.0	155.0	0.0	19.3	34,964		30.1	
5/24/2018 8:20	15.08	27,770.5	1163.00	27,911.90	14.9	0	6.8	6.8	7.32	7.87	0.21	0.55	338.759	0.0508	601.7	210.498	50.27	288.49	0.0	6.5	0.0	10.5	34,971		30.1	
5/30/2018 17:46	153.43	27,924.2	1169.40	28,065.60	153.7	0	8.4	8.4	7.19	7.86	0.22	0.67	427.055	0.06404	472.0	208.201	53.89	373.17	3.6	84.7	0.6	13.2	35,056		30.0	
6/8/2018 9:25	207.65	28,131.8	1178.05	28,273.20	207.6	0	10.2	10.2	7.02	7.86	0.22	0.84	551.247	0.08267	426.1	204.842	53.89	497.36	0.0	124.2	0.0	14.4	35,180		29.9	
6/12/2018 9:00	95.58	28,227.5	1182.04	28,368.90	95.7	0	11.0	11	6.97	7.86	0.22	0.89	589.491	0.0884	633.8	204.028	53.89	535.61	0.0	38.2	0.0	9.6	35,218		29.8	
6/15/2018 16:15	79.25	28,306.8	1185.34	28,448.20	79.3	0	11.4	11.4	6.91	7.88	0.2	0.97	636.345	0.09543	369.1	202.711	46.74	589.60	-7.1	54.0	-2.2	16.3	35,272		29.8	
6/19/2018 17:12	96.95	28,403.7	1189.38	28,545.10	96.9	1	2.3	14.3	6.68	7.58	0.5	0.9	824.925	0.12371	447.8	196.748	182.64	642.29	135.9	52.7	33.7	13.0	35,325		29.7	
6/27/2018 9:05	183.88	28,587.6	1197.04	28,729.00	183.9	1	3.6	15.6	6.58	7.56	0.52	0.98	910.979	0.13661	587.1	194.686	193.55	717.42	10.9	75.1	1.4	9.8	35,400		29.6	Sytem OFF at 9:10am for Pumpout
6/28/2018 10:25	25.33	28,587.6	1197.04	28,729.00	0.0	0	2.0	2	7.83	7.96	0.12	0.13	65.2001	0.00978	NA	223.285	21.79	43.41	-171.8	-674.0	0.0	0.0	35,400		29.6	T=0 Conditions after pump out, System ON at 10:25am after Pumpout

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product Storage Tank (MWAST-4)											
Date / Time	Period Run Time (hours)	Depth to Water (feet from TOC)	Water Level (feet from tank top)	Depth to LNAPL (feet from TOC)	LNAPL Level (feet from tank top)	Water Volume (gallons, calculated)	Total Liquid Volume (gallons, from chart)	LNAPL Volume (gallons, calc)	Total LNAPL Recovered Since Last Monitoring Event (gallons)	Total LNAPL Recovered Since Previous Monitoring Day (gallons)	Cumulative Holding Tank LNAPL Volume (gallons)
7/9/2015 13:15	0.00	8.03	7.13	5.36	4.46	45.1	489.6	446.2	0	0	443.2
7/9/2015 13:45	0.50	8.03	7.13	5.36	4.46	45.1	489.6	446.2	0	0	443.2
7/9/2015 14:15	0.50	8.03	7.13	5.34	4.44	45.1	494.7	449.6	5.1	0	448.3
7/9/2015 14:45	0.50	8.03	7.13	5.32	4.42	45.1	498.0	452.9	3.3	8.4	451.6
7/9/2015 15:15	0.50	8.03	7.13	5.31	4.41	45.1	499.7	454.6	1.7	8.4	453.3
7/9/2015 15:45	0.50	8.03	7.13	5.3	4.4	45.1	501.4	456.2	1.7	8.4	455.0
7/9/2015 16:15	0.50	8.03	7.13	5.28	4.38	45.1	504.7	459.6	3.3	8.4	458.3
7/9/2015 16:45	0.50	8.02	7.12	5.26	4.36	46.8	508.0	461.3	1.6	8.4	459.9
7/9/2015 17:15	0.50	8.02	7.12	5.25	4.35	46.8	509.7	462.9	1.7	8.4	461.6
7/9/2015 18:15	1.00	8.02	7.12	5.23	4.33	46.8	513.1	466.3	3.4	8.4	465.0
7/10/2015 7:00	12.75	8.04	7.14	5	4.1	43.5	551.5	508.0	41.7	50.1	506.7
7/10/2015 8:00	1.00	8.04	7.14	4.99	4.09	43.5	553.2	509.7	1.7	50.1	508.4
7/10/2015 9:00	1.00	8.03	7.13	4.97	4.07	45.1	556.5	511.4	1.7	45.1	510.1
7/10/2015 10:00	1.00	8.03	7.13	4.94	4.04	45.1	561.6	516.4	5.1	58.5	515.2
7/10/2015 11:00	1.00	8.02	7.12	4.92	4.02	46.8	564.9	518.1	1.6	58.5	516.8
7/10/2015 12:00	1.00	8.03	7.13	4.91	4.01	45.1	566.5	521.4	3.3	61.8	520.1
7/10/2015 13:00	1.00	8.03	7.13	4.9	4	45.1	568.2	523.1	1.7	63.5	521.8
7/10/2015 14:00	1.00	8.03	7.13	4.89	3.99	45.1	569.9	524.8	1.7	65.2	523.5
7/11/2015 8:05	18.08	8.03	7.13	4.7	3.8	45.1	601.6	556.5	31.7	31.7	555.2
7/12/2015 10:30	15.75	8.03	7.13	4.56	3.66	45.1	625.0	579.9	23.4	23.4	578.6
7/12/2015 11:57	1.45	8.03	7.13	4.53	3.63	45.1	630.1	584.9	5.1	28.5	583.7
7/13/2015 10:55	22.97	8.06	7.16	4.37	3.47	40.1	656.8	616.7	31.7	31.7	615.4
7/13/2015 19:00	8.08	8.29	7.39	4.59	3.69	1.7	620.0	618.3	1.62	33.32	617.0
7/14/2015 7:20	12.33	8.3	7.4	4.54	3.64	0.0	628.4	628.4	10.08	10.08	627.1
7/14/2015 12:00	4.67	8.31	7.41	4.49	3.59	0.0	636.8	636.7	8.4	18.48	635.5
7/15/2015 11:41	23.68	8.32	7.42	8.17	7.27	0.0	21.7	21.7	25.1	25.1	660.6
7/16/2015 10:15	22.57	8.32	7.42	8.09	7.19	0.0	35.1	35.1	13.4	13.4	674.0
7/17/2015 16:08	29.88	8.32	7.42	7.95	7.05	0.0	58.5	58.5	23.4	23.4	697.4
7/18/2015 11:58	19.83	8.32	7.42	7.85	6.95	0.0	75.2	75.2	16.7	16.7	714.1
7/21/2015 11:19	71.35	8.32	7.42	7.63	6.73	0.0	112.0	112.0	36.8	36.8	750.9
7/22/2015 10:24	23.08	8.32	7.42	7.54	6.64	0.0	127.1	127.0	15.1	15.1	766.0
7/23/2015 8:25	22.02	8.32	7.42	7.48	6.58	0.0	137.1	137.1	10	10	776.0

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product			
Date / Time	Monitoring Period LNAPL Recovery (gallons/day)	Total Pilot Test LNAPL Recovered (gallons)	Comments
7/9/2015 13:15		0	
7/9/2015 13:45		0	
7/9/2015 14:15		5.1	
7/9/2015 14:45		8.4	
7/9/2015 15:15		10.1	
7/9/2015 15:45		11.8	
7/9/2015 16:15		15.1	
7/9/2015 16:45		16.7	
7/9/2015 17:15		18.4	
7/9/2015 18:15	40.3	21.8	
7/10/2015 7:00		63.5	
7/10/2015 8:00		65.2	
7/10/2015 9:00		66.9	
7/10/2015 10:00		72	
7/10/2015 11:00		73.6	
7/10/2015 12:00		76.9	
7/10/2015 13:00		78.6	
7/10/2015 14:00	79.2	80.3	
7/11/2015 8:05	42.1	112	
7/12/2015 10:30		135.4	10.67 Hours of run time subtracted- system down
7/12/2015 11:57	39.8	140.5	
7/13/2015 10:55		172.2	
7/13/2015 19:00	25.8	173.82	
7/14/2015 7:20		183.9	
7/14/2015 12:00	26.1	192.3	
7/15/2015 11:41	25.4	217.4	
7/16/2015 10:15	14.3	230.8	
7/17/2015 16:08	18.8	254.2	
7/18/2015 11:58	20.2	270.9	
7/21/2015 11:19	12.4	307.7	
7/22/2015 10:24	15.7	322.8	
7/23/2015 8:25	10.9	332.8	

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product Storage Tank (MWAST-4)											
Date / Time	Period Run Time (hours)	Depth to Water (feet from TOC)	Water Level (feet from tank top)	Depth to LNAPL (feet from TOC)	LNAPL Level (feet from tank top)	Water Volume (gallons, calculated)	Total Liquid Volume (gallons, from chart)	LNAPL Volume (gallons, calc)	Total LNAPL Recovered Since Last Monitoring Event (gallons)	Total LNAPL Recovered Since Previous Monitoring Day (gallons)	Cumulative Holding Tank LNAPL Volume (gallons)
7/24/2015 7:33	23.13	8.32	7.42	7.41	6.51	0.0	148.7	148.7	11.6	11.6	787.6
7/25/2015 12:28	28.92	8.32	7.42	7.32	6.42	0.0	163.8	163.8	15.1	15.1	802.7
7/27/2015 7:33	43.08	8.32	7.42	7.24	6.34	0.0	177.2	177.2	13.4	13.4	816.1
7/29/2015 7:49	48.27	8.32	7.42	7.14	6.24	0.0	193.9	193.9	16.7	16.7	832.8
7/31/2015 7:38	47.82	8.32	7.42	7.05	6.15	0.0	208.9	208.9	15	15	847.8
8/4/2015 7:40	96.03	8.32	7.42	6.9	6	0.0	234.0	234.0	25.1	25.1	872.9
8/7/2015 10:26	74.77	8.32	7.42	6.82	5.92	0.0	247.3	247.3	13.3	13.3	886.2
8/10/2015 8:05	69.65	8.32	7.42	6.75	5.85	0.0	259.0	259.0	11.7	11.7	897.9
8/12/2015 7:47	47.70	8.32	7.42	6.7	5.8	0.0	267.4	267.4	8.4	8.4	906.3
8/14/2015 8:14	48.45	8.32	7.42	6.65	5.75	0.0	275.7	275.8	8.3	8.3	914.6
8/15/2015 11:42	27.47	8.32	7.42	6.61	5.71	0.0	282.4	282.4	6.7	6.7	921.3
8/17/2015 12:23	48.68	8.32	7.42	6.57	5.67	0.0	289.1	289.1	6.7	6.7	928.0
8/24/2015 12:03	167.67	8.32	7.42	6.46	5.56	0.0	307.5	307.5	18.4	18.4	946.4
8/26/2015 8:55	44.87	8.32	7.42	6.44	5.54	0.0	310.9	310.9	3.4	3.4	949.8
8/27/2015 13:27	28.53	8.32	7.42	6.4	5.5	0.0	317.5	317.5	6.6	6.6	956.4
9/3/2015 9:56	164.48	8.32	7.42	6.29	5.39	0.0	335.9	335.9	18.4	18.4	974.8
9/10/2015 11:50	169.90	8.32	7.42	6.21	5.31	0.0	349.3	349.3	13.4	13.4	988.2
9/17/2015 11:30	167.67	8.32	7.42	6.05	5.15	0.0	376.0	376.0	26.7	26.7	1014.9
9/24/2015 14:00	170.50	8.31	7.41	6.03	5.13	0.0	379.4	379.4	3.4	3.4	1018.3
10/1/2015 11:30	165.50	8.32	7.42	6.03	5.13	0.0	379.4	379.4	0	0	1018.3
10/8/2015 8:10	164.67	8.3	7.4	5.94	5.04	0.0	394.4	394.4	15	15	1033.3
10/14/2015 10:30	146.33	8.32	7.42	5.79	4.89	0.0	419.5	419.5	25.1	25.1	1058.4
10/21/2015 11:12	168.70	8.3	7.4	5.63	4.73	0.0	446.2	446.2	26.7	26.7	1085.1
10/29/2015 10:42	191.50	8.31	7.41	5.44	4.54	0.0	478.0	478.0	31.8	31.8	1116.9
11/3/2015 7:33	116.85	8.31	7.41	5.3	4.4	0.0	501.4	501.4	23.4	23.4	1140.3
4/21/2016 9:48	0.00	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0	0	1140.3
4/27/2016 11:36	145.80	7.73	6.83	7.6	6.7	95.3	117.0	21.7	21.7	21.7	1162.0
5/2/2016 16:48	125.20	7.62	6.72	7.49	6.59	113.7	135.4	21.7	0.1	0.1	1162.1
5/9/2016 11:37	162.82	7.61	6.71	7.46	6.56	115.3	140.4	25.1	3.3	3.3	1165.4
5/18/2016 11:10	215.55	7.59	6.69	7.45	6.55	118.7	142.1	23.4	0	0	1165.4
5/25/2016 13:20	170.17	7.59	6.69	7.45	6.55	118.7	142.1	23.4	0	0	1165.4
5/31/2016 10:30	141.17	7.55	6.65	7.41	6.51	125.4	148.7	23.4	0	0	1165.4

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product			
Date / Time	Monitoring Period LNAPL Recovery (gallons/day)	Total Pilot Test LNAPL Recovered (gallons)	Comments
7/24/2015 7:33	12.0	344.4	
7/25/2015 12:28	12.5	359.5	
7/27/2015 7:33	7.5	372.9	
7/29/2015 7:49	8.3	389.6	
7/31/2015 7:38	7.5	404.6	
8/4/2015 7:40	6.3	429.7	
8/7/2015 10:26	4.3	443	
8/10/2015 8:05	4.0	454.7	
8/12/2015 7:47	4.2	463.1	
8/14/2015 8:14	4.1	471.4	
8/15/2015 11:42	5.9	478.1	
8/17/2015 12:23	3.3	484.8	
8/24/2015 12:03	2.6	503.2	
8/26/2015 8:55	1.8	506.6	
8/27/2015 13:27	5.6	513.2	
9/3/2015 9:56	2.7	531.6	
9/10/2015 11:50	1.9	545	
9/17/2015 11:30	3.8	571.7	
9/24/2015 14:00	0.5	575.1	
10/1/2015 11:30	0.0	575.1	
10/8/2015 8:10	2.2	590.1	
10/14/2015 10:30	4.1	615.2	
10/21/2015 11:12	3.8	641.9	
10/29/2015 10:42	4.0	673.7	
11/3/2015 7:33	4.8	697.1	501.4 gallons removed from tank -end of season
4/21/2016 9:48	0.0	697.1	System start at empty tank
4/27/2016 11:36	3.6	718.8	
5/2/2016 16:48	0.0	718.9	
5/9/2016 11:37	0.5	722.2	
5/18/2016 11:10	0.0	722.2	
5/25/2016 13:20	0.0	722.2	
5/31/2016 10:30	0.0	722.2	

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product Storage Tank (MWAST-4)											
Date / Time	Period Run Time (hours)	Depth to Water (feet from TOC)	Water Level (feet from tank top)	Depth to LNAPL (feet from TOC)	LNAPL Level (feet from tank top)	Water Volume (gallons, calculated)	Total Liquid Volume (gallons, from chart)	LNAPL Volume (gallons, calc)	Total LNAPL Recovered Since Last Monitoring Event (gallons)	Total LNAPL Recovered Since Previous Monitoring Day (gallons)	Cumulative Holding Tank LNAPL Volume (gallons)
6/7/2016 11:50	169.33	7.53	6.63	7.39	6.49	128.7	152.1	23.4	0.1	0.1	1165.5
6/14/2016 12:32	168.70	7.51	6.61	7.37	6.47	132.0	155.4	23.4	0.0	0.0	1165.5
6/21/2016 10:08	165.60	7.53	6.63	7.38	6.48	128.7	153.8	25.1	1.7	1.7	1167.2
6/27/2016 10:55	72.30	3.54	2.64	3.3	2.4	795.5	835.6	40.1	15.1	15.1	1182.3
7/6/2016 14:21	0.00	7.39	6.49	7.2	6.3	152.1	183.8	31.8	0.0	0	1182.3
7/7/2016 11:13	20.87	7.42	6.52	7.19	6.29	147.1	185.5	38.4	6.7	6.7	1189.0
7/12/2016 13:00	121.78	7.39	6.49	7.06	6.16	152.1	207.2	55.1	16.7	16.7	1205.7
7/15/2016 9:56	68.93	7.39	6.49	7.04	6.14	152.1	210.6	58.5	3.4	3.4	1209.1
7/21/2016 9:44	143.80	7.38	6.48	7	6.10	153.8	217.3	63.5	5.0	5.0	1214.1
7/25/2016 12:52	99.13	7.37	6.47	6.95	6.05	155.4	225.6	70.2	6.7	6.7	1220.8
8/1/2016 11:06	166.23	7.33	6.43	6.79	5.89	162.1	252.4	90.2	20.1	20.1	1240.9
8/9/2016 10:52	191.77	7.33	6.43	6.49	5.59	162.1	302.5	140.4	50.1	50.1	1291.0
8/9/2016 13:30	0.00	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0.0	0.0	1291.0
8/18/2016 11:25	213.92	8.28	7.38	7.89	6.99	3.4	68.5	65.2	65.1	65.1	1356.1
8/26/2016 11:00	191.58	8.3	7.4	7.59	6.69	0.0	118.7	118.7	53.6	53.6	1409.7
9/2/2016 0:00	157.00	8.25	7.35	7.36	6.46	8.4	157.1	148.7	30.0	30.0	1439.7
9/9/2016 14:05	182.08	8.24	7.34	7.1	6.2	10.0	200.5	190.5	41.7	41.7	1481.4
9/16/2016 9:30	163.42	8.22	7.32	6.89	5.99	13.4	235.7	222.3	31.9	31.9	1513.3
9/20/2016 8:20	94.83	8.22	7.32	6.79	5.89	13.4	252.4	239.0	16.7	16.7	1530.0
9/29/2016 10:40	218.33	8.21	7.31	6.59	5.69	15.1	285.8	270.7	31.8	31.8	1561.8
10/6/2016 10:00	167.33	8.17	7.27	6.45	5.55	21.7	309.2	287.4	16.7	16.7	1578.5
10/13/2016 9:35	167.58	8.16	7.26	6.34	5.44	23.4	327.6	304.2	16.7	16.7	1595.2
10/18/2016 11:15	121.67	8.16	7.26	6.24	5.34	23.4	344.3	320.9	16.7	16.7	1611.9
10/27/2016 10:50	215.58	8.14	7.24	6.11	5.21	26.8	366.0	339.3	18.3	18.3	1630.2
11/7/2016 9:53	263.05	8.08	7.18	5.87	4.97	36.8	406.1	369.3	30.1	30.1	1660.3
5/2/2017 11:55	0.00	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0.0	0.0	1660.3
5/4/2017 11:48	47.88	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0.0	0.0	1660.3
5/8/2017 10:24	94.60	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0.0	0.0	1660.3
5/18/2017 13:00	242.60	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0.0	0.0	1660.3
5/22/2017 10:10	93.17	7.79	6.89	7.77	6.87	85.2	88.6	3.3	3.3	3.3	1663.6
5/25/2017 9:42	71.53	7.77	6.87	7.75	6.85	88.6	91.9	3.3	0.0	0.0	1663.6
5/31/2017 16:04	150.37	7.76	6.86	7.74	6.84	90.3	93.6	3.3	0.1	0.1	1663.7

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product			
Date / Time	Monitoring Period LNAPL Recovery (gallons/day)	Total Pilot Test LNAPL Recovered (gallons)	Comments
6/7/2016 11:50	0.0	722.3	
6/14/2016 12:32	0.0	722.3	
6/21/2016 10:08	0.2	724	
6/27/2016 10:55	5.0	739.1	System shut off estimated based on product recovery rate
7/6/2016 14:21	0.0	739.1	~800 gallons of water removed from tank and system restarted
7/7/2016 11:13	7.7	745.8	
7/12/2016 13:00	3.3	762.5	
7/15/2016 9:56	1.2	765.9	
7/21/2016 9:44	0.8	770.9	
7/25/2016 12:52	1.6	777.6	
8/1/2016 11:06	2.9	797.7	
8/9/2016 10:52	6.3	847.8	
8/9/2016 13:30	0.0	847.8	Tank emptied
8/18/2016 11:25	7.3	912.9	
8/26/2016 11:00	6.7	966.5	
9/2/2016 0:00	4.6	996.5	
9/9/2016 14:05	5.5	1038.2	
9/16/2016 9:30	4.7	1070.1	
9/20/2016 8:20	4.2	1086.8	
9/29/2016 10:40	3.5	1118.6	
10/6/2016 10:00	2.4	1135.3	
10/13/2016 9:35	2.4	1152.0	
10/18/2016 11:15	3.3	1168.7	
10/27/2016 10:50	2.0	1187.0	
11/7/2016 9:53	2.7	1217.1	End of operating season- pump out
5/2/2017 11:55	0.0	1217.1	T=0 Start of Operating Season, ~1' of product in well.
5/4/2017 11:48	0.0	1217.1	Very little product in well, sheen of product at bottom of tank
5/8/2017 10:24	0.0	1217.1	Very little product in well, sheen of product at bottom of tank
5/18/2017 13:00	0.0	1217.1	Very little product in well, sheen of product at bottom of tank
5/22/2017 10:10	0.9	1220.4	Increased Precipitation Events, Increased Water Table
5/25/2017 9:42	0.0	1220.4	Increased Precipitation Events, Increased Water Table
5/31/2017 16:04	0.0	1220.5	

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product Storage Tank (MWAST-4)											
Date / Time	Period Run Time (hours)	Depth to Water (feet from TOC)	Water Level (feet from tank top)	Depth to LNAPL (feet from TOC)	LNAPL Level (feet from tank top)	Water Volume (gallons, calculated)	Total Liquid Volume (gallons, from chart)	LNAPL Volume (gallons, calc)	Total LNAPL Recovered Since Last Monitoring Event (gallons)	Total LNAPL Recovered Since Previous Monitoring Day (gallons)	Cumulative Holding Tank LNAPL Volume (gallons)
6/14/2017 14:30	334.43	7.76	6.86	7.74	6.84	90.3	93.6	3.3	0.0	0.0	1663.7
6/22/2017 15:12	192.70	7.74	6.84	7.72	6.82	93.6	96.9	3.3	0.0	0.0	1663.7
6/29/2017 15:57	168.75	7.68	6.78	7.7	6.8	103.6	100.3	-3.3	0.0	0.0	1663.7
7/7/2017 9:19	185.37	7.68	6.78	7.62	6.72	103.6	113.6	10.0	13.3	13.3	1677.0
7/8/2017 8:20	23.02	7.68	6.78	7.62	6.72	103.6	113.6	10.0	0.0	0.0	1677.0
7/12/2017 15:00	102.67	7.68	6.78	7.61	6.71	103.6	115.3	11.7	1.7	1.7	1678.7
7/19/2017 14:00	167.00	7.68	6.78	7.6	6.7	103.6	117.0	13.4	1.7	1.7	1680.4
7/26/2017 12:24	166.40	7.68	6.78	7.59	6.69	103.6	118.7	15.0	1.7	1.7	1682.1
7/27/2017 13:40	25.27	7.67	6.77	7.58	6.68	105.3	120.4	15.0	0.1	0.1	1682.2
8/4/2017 12:00	190.33	7.67	6.77	7.53	6.63	105.3	128.8	23.4	8.4	8.4	1690.6
8/8/2017 13:00	97.00	7.68	6.78	7.49	6.59	103.6	135.4	31.8	8.2	8.2	1698.8
8/15/2017 13:15	168.25	7.65	6.75	7.45	6.55	108.6	142.1	33.4	1.7	1.7	1700.5
8/22/2017 8:18	163.05	7.68	6.78	7.45	6.55	103.6	142.1	38.4	5.0	5.0	1705.5
5/14/2018 10:10	6361.87	8.3	7.4	8.29	7.39	0.0	1.7	1.7	0.0	0.0	1705.5
5/15/2018 11:15	25.08	7.85	6.95	7.36	6.46	75.2	157.1	81.9	80.2	80.2	1785.7
9/4/2018 10:20	2687.08	8	7.1	7.42	6.52	50.1	147.1	96.9	15.1	15.1	1800.8
9/4/2018 14:00	3.67	7.99	7.09	7.41	6.51	51.8	148.7	96.9	0.0	0.0	1800.8
9/17/2018 14:15	312.25	8.13	7.13	7.30	6.31	45.1	182.1	137.0	40.1	40.1	1840.9
10/2/2018 10:55	668.92	8.03	7.13	7.21	6.31	45.1	182.1	137.0	0.0	0.0	1800.8
10/22/2018 10:45	479.83	8.01	7.11	7.23	6.33	48.5	178.8	130.4	0.0	0.0	1800.8
10/22/2018 15:47	5.03	8.00	7.10	7.22	6.32	50.1	180.5	130.4	0.0	0.0	1800.8
10/29/2018 10:53	163.10	8.00	7.10	7.16	6.26	50.1	190.5	140.4	10.0	10.0	1810.8
10/30/2018 8:30	8.00	8.32	7.42	8.32	7.42	0.0	0.0			3.0	1810.8

Table 8
MWAST-4 LNAPL Recovery

1,000 Gallon Product			
Date / Time	Monitoring Period LNAPL Recovery (gallons/day)	Total Pilot Test LNAPL Recovered (gallons)	Comments
6/14/2017 14:30	0.0	1220.5	
6/22/2017 15:12	0.0	1220.5	
6/29/2017 15:57	0.0	1220.5	Numbers make it appear we lost product. Will check readings again.
7/7/2017 9:19	1.7	1233.8	Increased precipitation events, increased water table. Gained 7 gal. of product.
7/8/2017 8:20	0.0	1233.8	No gain over past 24 hours.
7/12/2017 15:00	0.4	1235.5	Small amount of product recovery.
7/19/2017 14:00	0.2	1237.2	Small amount of product recovery.
7/26/2017 12:24	0.2	1238.9	Small amount of product recovery.
7/27/2017 13:40	0.1	1239.0	
8/4/2017 12:00	1.1	1247.4	
8/8/2017 13:00	2.0	1255.6	
8/15/2017 13:15	0.2	1257.3	
8/22/2017 8:18	0.7	1262.3	
5/14/2018 10:10	0.0	1262.3	System Start-up T=0
5/15/2018 11:15	76.8	1342.5	Product from MWAST-4 before MRW-3 Switch
9/4/2018 10:20			FINAL MRW-3 Reading, System air turned off 10:18, MRW-3 pump removed, MWAST-4 Installed and connected to Tank
9/4/2018 14:00	0.0	1342.5	Product from MRW-3 before MWAST-4 switch; no product was recovered when pump was positioned high, no product was acc
9/17/2018 14:15	3.1	1382.6	
10/2/2018 10:55	0.0	1382.6	System down, control panel issues.
10/22/2018 10:45	0.0	1382.6	System restarted, readjust pumps
10/22/2018 15:47	0.0	1382.6	
10/29/2018 10:53	1.5	1392.6	
10/30/2018 8:30		1392.6	System Pump out. End of operating season.

Table 9
MRW-3 LNAPL Recovery

1,000 Gallon Product Storage Tank (MRW-3)												
Date / Time	Period Run Time	Run Time Per Day	Depth to Water (feet from TOC)	Water Level (feet from tank top)	Depth to LNAPL (feet from TOC)	LNAPL Level (feet from tank top)	Water Volume (gallons, calculated)	Total Liquid Volume (gallons, from chart)	LNAPL Volume (gallons, calc)	Total LNAPL Recovered Since Previous Monitoring Day (gallons)	Cumulative Holding Tank LNAPL Volume (gallons)	
8/22/2017 8:18	163.0	163.0	7.68	6.78	7.45	6.55	103.6	142.1	38.4	5.0	1696.9	
8/22/2017 15:00	6.7	6.7	7.68	6.78	7.44	6.54	103.6	143.8	40.1	1.7	40.1	
8/23/2017 16:50	25.8	25.8	7.66	6.76	7.4	6.5	107.0	150.4	43.5	3.3	43.4	
8/30/2017 9:36	160.8	160.8	7.49	6.59	7.18	6.28	135.4	187.2	51.8	8.4	51.8	
8/30/2017 11:00	1.4	162.2	8.3	7.4	8.3	7.4	0.0	0.0	0.0	0.0	51.8	
9/7/2017 17:45	198.8	198.8	8.3	7.4	8.21	7.31	0.0	15.0	15.1	15.0	66.8	
9/14/2017 14:10	164.4	164.4	8.21	7.31	8.03	7.13	15.1	45.1	30.1	15.0	81.9	
9/19/2017 14:21	120.2	120.2	8.17	7.27	7.94	7.04	21.7	60.2	38.4	8.4	90.2	
9/27/2017 13:31	191.2	191.2	8.03	7.13	7.74	6.84	45.1	93.6	48.5	10.0	100.3	
10/4/2017 15:11	169.7	169.7	7.93	7.03	7.6	6.7	61.8	117.0	55.1	6.7	106.9	
10/12/2017 16:30	193.3	193.3	7.86	6.96	7.42	6.52	73.5	147.1	73.5	21.7	128.6	
10/19/2017 12:45	164.3	164.3	7.79	6.89	7.26	6.36	85.2	173.8	88.6	11.6	140.2	
10/26/2017 12:45	168.0	168.0	7.72	6.82	7.12	6.22	96.9	197.2	100.3	11.8	152.0	
11/8/2017 8:45	0.0	0.0	7.57	6.67	6.87	5.97	122.0	239.0	117.0	16.6	168.6	
11/8/2017 10:15	1.5	1.5	8.31	7.41	8.3	7.4	0.0	0.0	0.0	0.0	168.6	
5/15/2018 11:15	25.1	25.1	7.85	6.95	7.36	6.46	75.2	157.1	81.9	0.0	168.6	
5/15/2018 16:20	5.1	30.2	7.79	6.89	7.25	6.35	85.2	175.5	90.2	8.3	176.9	
5/24/2018 8:30	208.2	208.2	7.72	6.82	7.02	6.12	96.9	213.9	117.0	26.8	203.7	
5/30/2018 10:30	146.0	146.0	7.61	6.71	6.88	5.98	115.3	237.3	122.0	5.0	208.7	
6/8/2018 9:30	215.0	215.0	7.48	6.58	6.66	5.76	137.1	274.0	137.0	14.9	223.6	
6/12/2018 9:00	95.5	95.5	7.45	6.55	6.58	5.68	142.1	287.5	145.4	8.5	232.1	
6/15/2018 16:27	79.5	79.5	7.41	6.51	6.51	5.61	148.7	299.1	150.4	5.0	237.1	
6/19/2018 17:21	96.9	96.9	7.41	6.51	6.51	5.61	148.7	299.1	150.4	0.0	237.1	
6/27/2018 9:00	183.7	183.7	7.41	6.51	6.4	5.5	148.7	317.5	168.8	18.4	255.5	
6/28/2018 10:30	25.5	25.5	8.31	7.41	8.28	7.38	0.0	3.4	3.4	0.0	255.5	
7/3/2018 14:38	124.1	124.1	8.26	7.36	8.18	7.28	6.7	20.1	13.4	10.0	265.5	
7/10/2018 14:20	167.7	167.7	8.23	7.33	8.07	7.17	11.7	38.4	26.7	13.3	268.8	
7/25/2018 14:05	359.8	359.8	8.19	7.29	7.92	7.02	18.4	63.5	45.1	18.4	283.9	
8/8/2018 10:50	332.8	332.8	8.15	7.25	7.76	6.86	25.1	90.2	65.2	20.0	288.8	
8/16/2018 18:35	199.7	199.7	8.11	7.21	7.66	6.76	31.8	106.9	75.2	10.1	294.0	
8/28/2018 10:31	279.9	279.9	8.05	7.15	7.52	6.62	41.8	130.4	88.6	13.4	302.2	
9/4/2018 10:20	167.8	167.8	8.00	7.1	7.42	6.52	50.1	147.1	96.9	8.4	310.6	

Table 9
MRW-3 LNAPL Recovery

1,000 Gallon Production			
Date / Time	Monitoring Period LNAPL Recovery (gallons/day)	Total Pilot Test LNAPL Recovered (gallons)	Comments
8/22/2017 8:18	0.7	1253.7	Last MWASt-4 Reading Before Switch to MRW-3
8/22/2017 15:00	6.0	1.7	Tank switch to MRW-3 recovery only @ 15:00. 1253.7 final for MWASt-4. MRW-3 Pilot Test Began with 38.43 Gallons of LNAPL in the Holding Tank
8/23/2017 16:50	3.1	5.0	MRW-3 Recovery in blue.
8/30/2017 9:36	1.2	13.4	
8/30/2017 11:00	1.2	13.4	Mid summer pump out. Water table very high. System set to 40 min refill, 30 sec discharge
9/7/2017 17:45	1.8	28.4	Timer set to 22 on, 2 off. Refill at 40 min and discharge at 30 sec.
9/14/2017 14:10	2.2	43.5	Timer set to 22 on, 2 off. Refill at 40 min and discharge at 30 sec.
9/19/2017 14:21	1.7	51.8	Timer set to 22 on, 2 off. Refill at 30 min and discharge at 30 sec.
9/27/2017 13:31	1.3	61.9	Timer set to 22 on, 2 off. Refill at 40 min and discharge at 30 sec.
10/4/2017 15:11	0.9	68.5	Timer set to 22 on, 2 off. Refill at 30 min and discharge at 30 sec.
10/12/2017 16:30	2.7	90.2	Timer set to 22 on, 2 off. Refill at 30 min and discharge at 30 sec.
10/19/2017 12:45	1.7	101.8	Timer set to 22 on, 2 off. Refill at 40 min and discharge at 30 sec.
10/26/2017 12:45	1.7	113.6	Timer set to 22 on, 2 off. Refill at 40 min and discharge at 30 sec.
11/8/2017 8:45	0.0	130.2	Ice at base of tank, WL is top of ice. System off 10/27 due to power outage.
11/8/2017 10:15	0.0	130.2	Ice at base of tank, WL is top of ice. Data after pump out.
5/15/2018 11:15	0.0	130.2	System Start-up T=0 (From MWASt-4 Accumulation)
5/15/2018 16:20	6.6	138.5	Start of collection for MRW-3. Began with 81.9 gallons of product in tank.
5/24/2018 8:30	3.1	165.3	Set to 30 min Refill, 30 sec Discharge, 22 ON, 2 OFF
5/30/2018 10:30	0.8	170.3	Set to 30 min Refill, 30 sec Discharge, 22 ON, 2 OFF
6/8/2018 9:30	1.7	185.2	Set to 40 min Refill, 30 sec Discharge, 22 ON, 2 OFF
6/12/2018 9:00	2.1	193.7	Set to 40 min Refill, 30 sec Discharge, 22 ON, 2 OFF
6/15/2018 16:27	1.5	198.7	Air turned off for system 16:40
6/19/2018 17:21	0.0	198.7	Set to 40 min Refill, 30 sec Discharge, 22 ON, Air turned on for system 17:30
6/27/2018 9:00	2.4	217.1	
6/28/2018 10:30	0.0	217.1	System Pump Out
7/3/2018 14:38	1.9	227.1	Set to 60 min Refill, 30 sec Discharge, 22 ON, 2 OFF
7/10/2018 14:20	1.9	240.4	Set to 60 min Refill, 30 sec Discharge, 22 ON, 2 OFF
7/25/2018 14:05	1.2	258.8	Set to 60 min Refill, 30 sec Discharge, 22 ON, 2 OFF
8/8/2018 10:50	1.4	278.8	Set to 60 min Refill, 30 sec Discharge, 22 ON, 2 OFF
8/16/2018 18:35	1.2	288.9	Set to 60 min Refill, 30 sec Discharge, 22 ON, 2 OFF
8/28/2018 10:31	1.1	302.3	Set to 60 min Refill, 30 sec Discharge, 22 ON, 2 OFF
9/4/2018 10:20	1.2	310.7	FINAL MRW-3 Reading, System air turned off 10:18, MRW-3 pump removed, MWASt-4 Installed and connected to Tank

Table 10

LRMW-7 Monitoring

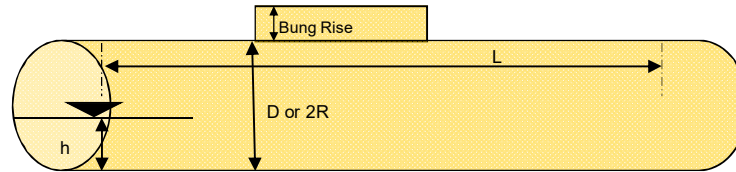
Calculations for Fluid Recovery and Drainage in a Horizontal Tank

BP Superior Terminal (Bail tank 1000 Gal tank (formally TRFT tank))

Superior, Wisconsin

AST Inside Diameter (in.)	63
AST Inside Length (in.)	71
Bung Rise (in.)	8.04

Tank Capacity (gal) 958.1



Data Entry
Calculated Cell

$$Volume = \left[R^2 \cos^{-1} \left(\frac{R-h}{R} \right) - (R-h) \sqrt{2Rh - h^2} \right] L$$

Date	DTP ₁ (ft)	DTW ₁ (ft)	Product (gal)	Water (gal)	Product (gal/day)	Product Recovered Since Last Monitoring Event (gal)	Water (gal/day)	Total Pilot Test LNAPL Recovered (gal)	Tank Volume Remaining	Comments
8/30/17 11:00	5.87		1.51	0.00				1.5	956.6	
9/7/17 17:45	5.81		4.90	0.00	0.41	3.39		4.9	953.2	
9/19/17 14:16	5.78		7.03	0.00	0.18	2.12		7.0	951.1	
9/27/17 13:26	5.69		14.72	0.00	0.97	7.69		14.7	943.4	Pump Level at 4. Refill set to 40 minute recharge with 30 sec discharge.
10/4/17 15:14	5.48	5.67	21.80	16.66	1.00	7.08	0.42	21.8	919.7	
10/12/17 16:16	5.35	5.59	31.11	25.14	1.16	9.31	0.95	31.1	901.9	
10/19/17 12:50	5.22	5.53	43.75	32.19	1.84	12.64	0.97	43.8	882.2	
10/26/17 10:16	5.15	5.46	46.17	41.06	0.35	2.42	0.78	46.2	870.9	
10/26/17 18:09	4.78	5.43	108.35	45.06		62.18		108.4	804.7	62.18 gal added to tank from gauge and bail
11/7/17 10:30	4.70	5.30	105.30	63.62			0.63		789.2	Ice at base of tank, WL is top of ice. System off since 10//27 due to power outage
11/8/17 10:20	5.21	5.30	13.91	63.62	0.00	0.00	0.00	108.4	880.6	Ice at base of tank, WL is top of ice. Data after pump out.
5/14/18 10:10	5.29	5.34	7.42	57.71		7.42		108.4	893.0	T=0 Conditions (Start of Season)
5/15/18 16:25	5.17	5.34	26.25	57.71	3.44	4.33	0.00	112.7	874.2	Bailed (LRMW-7 6 gallons, MRW-3 ~14.5 gallons), Remainder is LRMW-7
5/24/18 8:30	5.09	5.34	39.54	57.71	1.53	13.29	0.00	126.0	860.9	
5/30/18 17:15	4.96	5.14	31.08	88.88		-8.46	0.20		838.2	
6/8/18 9:35	4.84	5.05	37.92	104.10	0.79	6.84	0.57	132.8	816.1	
6/12/18 9:55	4.80	5.02	40.27	109.32	0.58	2.35	0.77	135.2	808.5	Air line turned off 6/13 18:00
6/15/18 16:32	4.77	5.00	42.49	112.83	0.68	2.22	0.93	137.4	802.8	Air line turned on 6/15 16:30 22 ON 2 OFF 40 min refill, 30 sec discharge
6/19/18 17:25	4.70	4.94	45.35	123.57	0.70	2.86	0.38	140.2	789.2	
6/27/18 9:00	4.65	4.94	55.24	123.57	1.09	9.88	0.00	150.1	779.3	22 ON 2 OFF 40 min refill, 30 sec discharge
6/28/18 10:35	5.80		5.58	0.00		0.00		150.1	952.5	System Pump Out
7/3/18 14:40	5.66	5.73	6.58	11.08	0.19	1.00	0.47	151.1	940.5	22 ON 2 OFF 60 min refill, 30 sec discharge
7/10/18 14:25	5.57	5.69	12.71	14.72	0.88	6.13	1.92	157.3	930.7	
7/25/18 14:05	5.47	5.65	21.08	18.67	0.56	8.36	3.79	165.6	918.4	Field Notes Wrong (Meant to Say 5.47 and 5.65).
8/8/18 10:50	5.41	5.65	29.11	18.67	0.58	8.03	0.00	173.7	910.3	
8/16/18 12:00	5.35	5.60	32.2	24.0	0.39	3.12	1.50	176.8	901.9	
8/28/18 10:12	5.34	5.60	33.7	24.0	0.12	1.45	0.00	178.2	900.4	
9/4/18 10:25	5.32	5.59	35.5	25.1	0.26	1.82	6.26	180.0	897.5	FINAL, System Air Tuned off 10:18, System Pump removed, ~2.5 gallons bailed
10/30/18 8:30	5.85	5.85	0.0	2.5					955.6	System Pump Out

Table 11
Groundwater Sampling Plan - 2019
Former Amoco Terminal
Superior, Wisconsin

Area/Well	Last Benzene µg/l	2019 Spring Sampling	2019 Fall Sampling	Field Parameter Sampling	Semi-Annual Gauge DTW/LNAPL	Annual Gauge DTW/LNAPL (Spring)
EW-5	LNAPL					X
EW-6	LNAPL					X
EW-7	LNAPL					X
EW-8	407					X
EW-9	28.1					X
EW-10	1.4					X
EW-11	LNAPL					X
MW-10	3.1					X
MW-14	LNAPL					X
MW-16	LNAPL					X
MW-17	<0.40					X
MW-22	LNAPL					X
MW-23	LNAPL					X
MW-24	LNAPL					X
MW-25	LNAPL					X
MW-26	LNAPL					X
MW-27	LNAPL					X
MW-30D	1830	X	X	X	X	X
MW-30DD	<0.31	X	X		X	X
MW-30S	409	X	X		X	X
MW-30DDD	<0.31	X	X		X	X
MW-31	<0.40					X
MW-32	LNAPL				X	X
MW-33	<0.40					X
MW-36D	1690	X	X	X	X	X
MW-36DD	<0.31	X	X		X	X
MW-36S	<0.31					X
MW-37D	2450	X	X		X	X
MW-37DD	1260	X	X		X	X
MW-37S	<0.31					X
MW-37DDD	2.8	X	X		X	X
MW-38D	<0.31	X	X		X	X
MW-38S	<0.40					X
MW-38DD	<0.31	X	X		X	X
MW-40D	<0.31	X	X		X	X
MW-40S	<0.31					X
MW-41D	28.4	X	X		X	X
MW-41S	<0.31		X			X
MW-41DD	<0.31	X	X		X	X
MW-45D	121	X	X		X	X
MW-45S	<0.31					X
MW-46D	<0.31	X	X	X	X	X
MW-46S	<0.31		X	X		X
MW-48S	<0.31	X	X	X	X	X
MW-48D	<0.40	X	X	X	X	X
MW-49S	1970	X	X		X	X
MW-49D	<0.31	X	X		X	X
MW-50D	<0.31	X	X		X	X
MW-51D	<0.31	X	X		X	X
MW-52D	<0.31	X	X	X	X	X
MW-52DD	<0.31	X	X	X	X	X
MWT-2D	3100	X	X	X	X	X
MWT-2S	<0.31		X			X
MWT-6	LNAPL					X
RW-1	LNAPL					X
RW-3	4560					X
RW-4	LNAPL					X
RW-5	LNAPL					X
RW-6	LNAPL					X
RW-8	LNAPL					X
RW-9	LNAPL					X
MW-3	7.6					X
MW-35	<0.40					X
MW-34	<0.40					X
MW-47	<0.40					X
MWAST-2	LNAPL					X
MWAST-3	207			X		X
MWAST-4	LNAPL					X
MWAST-6	LNAPL					X
MWAST-8	2840			X		X
MWAST-9	93.2					X

Table 11
Groundwater Sampling Plan - 2019
Former Amoco Terminal
Superior, Wisconsin

Area/Well	Last Benzene µg/l	2019 Spring Sampling	2019 Fall Sampling	Field Parameter Sampling	Semi-Annual Gauge DTW/LNAPL	Annual Gauge DTW/LNAPL (Spring)
RWAST-1	2270			X		X
RWAST-2	1416					X
LRMW-1	6850			X		X
LRMW-2	LNAPL					X
LRMW-3	LNAPL					X
LRMW-4	LNAPL					X
LRMW-5	LNAPL					X
LRMW-6	1130			X	X	X
LRMW-7	LNAPL				X	X
MWM-2	<0.40			X		X
MWM-2D	<0.40	X	X	X	X	X
MWM-3	LNAPL					X
MWM-4	1.0					X
MWM-6	LNAPL					X
MWM-7	4					X
MWM-7D	1980	X	X		X	X
MWM-9RD	2400	X	X	X	X	X
MWM-9RS	<0.40					X
MWM-10D	1140	X	X		X	X
MWM-10S	<0.40					X
MRW-1	LNAPL					X
MRW-2	LNAPL					X
MRW-3	LNAPL				X	X
MRW-4	LNAPL					X
MRW-5	LNAPL					X
MRW-6	LNAPL					X
MRW-7	LNAPL					X
MRW-8	LNAPL					X
MRW-9	LNAPL					X
MRW-10	LNAPL					X
LRMW-8	LNAPL					X
LRMW-9	2000			X	X	X
LRMW-10	LNAPL					X
LRMW-11	LNAPL					X
MWRR-1	<0.40					X
MWRR-1D	510	X	X	X	X	X
MWRR-2	17.6		X	X		X
MWRR-4	676		X	X	X	X
MWRR-8	LNAPL					X
MWOW-1	LNAPL					X
MWOW-2	0.44J			X		X
MWOW-2D	<0.31	X	X	X	X	X
MWOW-3	36.8			X		X
MWOW-5	LNAPL					X
MWBD-1	<0.40					X
MWBD-1D	110	X	X	X	X	X
MWBD-1DD	<0.31	X	X		X	X
Totals:		33	38	25	39	118

NOTES:
X..... = Wells included in the Amoco Barge Dock-Mainfold & AST Area 2017 Sampling Plan
<..... = The compound was not detected at or above the indicated method detection limit.
..... Unlisted detection limit concentrations were unavailable.
ug/L = Micrograms per liter (equivalent to parts per billion)
LNAPL = LNAPL in Well, could not be sampled
"BOLD" = The indicated concentration exceeds the NR 140 ES of 5 µg/L
NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard

*2018 July-Dec. Progress Report
Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin
Antea Group Project No. WISUP191*



Appendix A

Groundwater Analytical Laboratory Reports

July 31, 2018

Jonathan Zimdars
Antea Group - MN
5910 Rice Creek Parkway
Saint Paul, MN 55126

RE: Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40173128

Dear Jonathan Zimdars:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Todd Kremmin, Antea Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40173128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40173128001	MWRR-1DR	Water	07/25/18 12:40	07/26/18 09:50
40173128002	TRIP BLANK	Water	07/25/18 00:00	07/26/18 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40173128001	MWRR-1DR	WI MOD GRO	ALD	10	PASI-G
40173128002	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40173128001	MWRR-1DR					
WI MOD GRO	Benzene	460	ug/L	5.1	07/31/18 08:47	
WI MOD GRO	Toluene	7.0J	ug/L	8.2	07/31/18 08:47	
WI MOD GRO	o-Xylene	4.8J	ug/L	5.2	07/31/18 08:47	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40173128

Method: WI MOD GRO
Description: WIGRO GCV
Client: Antea Group
Date: July 31, 2018

General Information:

2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 295769

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40172842012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1728963)
 - Benzene
- MSD (Lab ID: 1728964)
 - Benzene
 - Ethylbenzene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

Sample: MWRR-1DR **Lab ID: 40173128001** Collected: 07/25/18 12:40 Received: 07/26/18 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	460	ug/L	5.1	1.5	5		07/31/18 08:47	71-43-2	
Ethylbenzene	<1.6	ug/L	5.5	1.6	5		07/31/18 08:47	100-41-4	
Methyl-tert-butyl ether	<1.6	ug/L	5.4	1.6	5		07/31/18 08:47	1634-04-4	
Naphthalene	<2.5	ug/L	8.4	2.5	5		07/31/18 08:47	91-20-3	
Toluene	7.0J	ug/L	8.2	2.4	5		07/31/18 08:47	108-88-3	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.7	1.7	5		07/31/18 08:47	95-63-6	
1,3,5-Trimethylbenzene	<1.6	ug/L	5.4	1.6	5		07/31/18 08:47	108-67-8	
m&p-Xylene	<3.3	ug/L	10.9	3.3	5		07/31/18 08:47	179601-23-1	
o-Xylene	4.8J	ug/L	5.2	1.6	5		07/31/18 08:47	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		5		07/31/18 08:47	98-08-8	

Sample: TRIP BLANK **Lab ID: 40173128002** Collected: 07/25/18 00:00 Received: 07/26/18 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		07/30/18 18:11	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		07/30/18 18:11	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		07/30/18 18:11	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		07/30/18 18:11	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		07/30/18 18:11	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		07/30/18 18:11	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		07/30/18 18:11	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		07/30/18 18:11	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		07/30/18 18:11	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		07/30/18 18:11	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

QC Batch: 295769 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40173128001, 40173128002

METHOD BLANK: 1728851 Matrix: Water

Associated Lab Samples: 40173128001, 40173128002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	07/30/18 13:02	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	07/30/18 13:02	
Benzene	ug/L	<0.31	1.0	07/30/18 13:02	
Ethylbenzene	ug/L	<0.33	1.1	07/30/18 13:02	
m&p-Xylene	ug/L	<0.66	2.2	07/30/18 13:02	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	07/30/18 13:02	
Naphthalene	ug/L	<0.51	1.7	07/30/18 13:02	
o-Xylene	ug/L	<0.32	1.0	07/30/18 13:02	
Toluene	ug/L	<0.49	1.6	07/30/18 13:02	
a,a,a-Trifluorotoluene (S)	%	98	80-120	07/30/18 13:02	

LABORATORY CONTROL SAMPLE & LCSD: 1728852 1728853

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.5	20.5	103	102	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.9	20.0	99	100	80-120	0	20	
Benzene	ug/L	20	19.9	19.7	99	98	80-120	1	20	
Ethylbenzene	ug/L	20	20.3	20.2	101	101	80-120	0	20	
m&p-Xylene	ug/L	40	39.8	39.8	100	99	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.8	19.7	99	98	80-120	0	20	
Naphthalene	ug/L	20	19.3	19.7	96	99	80-120	2	20	
o-Xylene	ug/L	20	20.1	20.1	101	100	80-120	0	20	
Toluene	ug/L	20	20.0	19.8	100	99	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728963 1728964

Parameter	Units	40172842012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	713	400	400	1090	1080	93	91	51-160	1	20	
1,3,5-Trimethylbenzene	ug/L	225	400	400	613	611	97	96	56-146	0	20	
Benzene	ug/L	641	400	400	891	877	62	59	71-137	2	20	M1
Ethylbenzene	ug/L	799	400	400	1080	1070	71	67	71-141	2	20	M1
m&p-Xylene	ug/L	936	800	800	1600	1580	83	80	66-141	1	20	
Methyl-tert-butyl ether	ug/L	21.2	400	400	406	398	96	94	80-120	2	20	
Naphthalene	ug/L	192	400	400	572	577	95	96	67-138	1	20	
o-Xylene	ug/L	35.6	400	400	429	430	98	99	75-133	0	20	
Toluene	ug/L	141	400	400	502	501	90	90	76-134	0	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1728963		1728964									
Parameter	Units	40172842012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
a,a,a-Trifluorotoluene (S)	%						100	100	80-120				

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40173128

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40173128

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40173128001	MWRR-1DR	WI MOD GRO	295769		
40173128002	TRIP BLANK	WI MOD GRO	295769		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: Antea Group

Project #: _____

WO#: 40173128

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____



Tracking #: 6779 8896 4576

Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no

Custody Seal on Samples Present: yes no **Seals intact:** yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROD / Corr: _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
Date: 7/26/18
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis	Matrix: <u>W</u>	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>402</u>	

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 7/26/18

October 16, 2018

Jonathan Zimdars
Antea Group - MN
5910 Rice Creek Parkway
Saint Paul, MN 55126

RE: Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177479

Dear Jonathan Zimdars:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Layne Kortbein, Antea Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177479

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177479001	MW-52D	Water	10/09/18 09:45	10/11/18 09:20
40177479002	MW-52DD	Water	10/09/18 09:50	10/11/18 09:20
40177479003	MW-50D	Water	10/09/18 11:00	10/11/18 09:20
40177479004	MW-51D	Water	10/09/18 11:40	10/11/18 09:20
40177479005	MW-46D	Water	10/09/18 13:30	10/11/18 09:20
40177479006	MW-46S	Water	10/09/18 13:00	10/11/18 09:20
40177479007	MW-45S	Water	10/09/18 15:45	10/11/18 09:20
40177479008	MW-41S	Water	10/09/18 16:15	10/11/18 09:20
40177479009	MW-40D	Water	10/09/18 18:45	10/11/18 09:20
40177479010	MW-40S	Water	10/09/18 18:20	10/11/18 09:20
40177479011	MW-36S	Water	10/09/18 16:30	10/11/18 09:20
40177479012	MW-36DD	Water	10/09/18 17:10	10/11/18 09:20
40177479013	MW-37S	Water	10/09/18 17:40	10/11/18 09:20
40177479014	MW-41DD	Water	10/10/18 09:25	10/11/18 09:20
40177479015	MW-38D	Water	10/10/18 09:00	10/11/18 09:20
40177479016	MW-38S	Water	10/10/18 09:15	10/11/18 09:20
40177479017	MW-38DD	Water	10/10/18 13:45	10/11/18 09:20
40177479018	MW-48D	Water	10/10/18 11:00	10/11/18 09:20
40177479019	MW-48S	Water	10/10/18 10:50	10/11/18 09:20
40177479020	MW-49D	Water	10/10/18 11:45	10/11/18 09:20
40177479021	MW-49S	Water	10/10/18 11:35	10/11/18 09:20
40177479022	MWOW-2D	Water	10/10/18 13:00	10/11/18 09:20
40177479023	MWBD-1DD	Water	10/10/18 13:15	10/11/18 09:20
40177479024	TRIP BLANK	Water	10/10/18 00:00	10/11/18 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40177479001	MW-52D	WI MOD GRO	ALD	10	PASI-G
40177479002	MW-52DD	WI MOD GRO	ALD	10	PASI-G
40177479003	MW-50D	WI MOD GRO	ALD	10	PASI-G
40177479004	MW-51D	WI MOD GRO	ALD	10	PASI-G
40177479005	MW-46D	WI MOD GRO	ALD	10	PASI-G
40177479006	MW-46S	WI MOD GRO	ALD	10	PASI-G
40177479007	MW-45S	WI MOD GRO	ALD	10	PASI-G
40177479008	MW-41S	WI MOD GRO	ALD	10	PASI-G
40177479009	MW-40D	WI MOD GRO	ALD	10	PASI-G
40177479010	MW-40S	WI MOD GRO	ALD	10	PASI-G
40177479011	MW-36S	WI MOD GRO	ALD	10	PASI-G
40177479012	MW-36DD	WI MOD GRO	ALD	10	PASI-G
40177479013	MW-37S	WI MOD GRO	ALD	10	PASI-G
40177479014	MW-41DD	WI MOD GRO	ALD	10	PASI-G
40177479015	MW-38D	WI MOD GRO	ALD	10	PASI-G
40177479016	MW-38S	WI MOD GRO	ALD	10	PASI-G
40177479017	MW-38DD	WI MOD GRO	ALD	10	PASI-G
40177479018	MW-48D	WI MOD GRO	ALD	10	PASI-G
40177479019	MW-48S	WI MOD GRO	ALD	10	PASI-G
40177479020	MW-49D	WI MOD GRO	ALD	10	PASI-G
40177479021	MW-49S	WI MOD GRO	ALD	10	PASI-G
40177479022	MWOW-2D	WI MOD GRO	ALD	10	PASI-G
40177479023	MWBOD-1DD	WI MOD GRO	ALD	10	PASI-G
40177479024	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40177479005	MW-46D					
WI MOD GRO	Ethylbenzene	0.35J	ug/L	1.1	10/12/18 11:56	
WI MOD GRO	m&p-Xylene	1.6J	ug/L	2.2	10/12/18 11:56	
40177479018	MW-48D					
WI MOD GRO	1,2,4-Trimethylbenzene	0.35J	ug/L	1.1	10/12/18 18:20	
40177479021	MW-49S					
WI MOD GRO	Benzene	1970	ug/L	5.1	10/15/18 16:01	
WI MOD GRO	Ethylbenzene	1.7J	ug/L	5.5	10/15/18 16:01	
WI MOD GRO	Toluene	37.2	ug/L	8.2	10/15/18 16:01	
WI MOD GRO	o-Xylene	4.0J	ug/L	5.2	10/15/18 16:01	

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PROJECT NARRATIVE

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Method: WI MOD GRO

Description: WIGRO GCV

Client: Antea Group

Date: October 16, 2018

General Information:

24 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177479

Sample: MW-52D **Lab ID: 40177479001** Collected: 10/09/18 09:45 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 10:14	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 10:14	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 10:14	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 10:14	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 10:14	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 10:14	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 10:14	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 10:14	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 10:14	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		10/12/18 10:14	98-08-8	

Sample: MW-52DD **Lab ID: 40177479002** Collected: 10/09/18 09:50 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 10:39	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 10:39	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 10:39	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 10:39	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 10:39	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 10:39	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 10:39	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 10:39	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 10:39	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 10:39	98-08-8	

Sample: MW-50D **Lab ID: 40177479003** Collected: 10/09/18 11:00 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 11:05	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 11:05	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 11:05	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 11:05	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 11:05	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 11:05	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 11:05	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 11:05	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 11:05	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-50D									
Lab ID: 40177479003									
Collected: 10/09/18 11:00									
Received: 10/11/18 09:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 11:05	98-08-8	

Sample: MW-51D									
Lab ID: 40177479004									
Collected: 10/09/18 11:40									
Received: 10/11/18 09:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 11:31	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 11:31	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 11:31	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 11:31	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 11:31	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 11:31	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 11:31	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 11:31	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 11:31	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		10/12/18 11:31	98-08-8	

Sample: MW-46D									
Lab ID: 40177479005									
Collected: 10/09/18 13:30									
Received: 10/11/18 09:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 11:56	71-43-2	
Ethylbenzene	0.35J	ug/L	1.1	0.33	1		10/12/18 11:56	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 11:56	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 11:56	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 11:56	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 11:56	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 11:56	108-67-8	
m&p-Xylene	1.6J	ug/L	2.2	0.66	1		10/12/18 11:56	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 11:56	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 11:56	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-46S **Lab ID: 40177479006** Collected: 10/09/18 13:00 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 12:22	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 12:22	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 12:22	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 12:22	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 12:22	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 12:22	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 12:22	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 12:22	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 12:22	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 12:22	98-08-8	

Sample: MW-45S **Lab ID: 40177479007** Collected: 10/09/18 15:45 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 12:48	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 12:48	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 12:48	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 12:48	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 12:48	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 12:48	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 12:48	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 12:48	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 12:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 12:48	98-08-8	

Sample: MW-41S **Lab ID: 40177479008** Collected: 10/09/18 16:15 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 13:13	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 13:13	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 13:13	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 13:13	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 13:13	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 13:13	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 13:13	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 13:13	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 13:13	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-41S									
Lab ID: 40177479008									
Collected: 10/09/18 16:15									
Received: 10/11/18 09:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 13:13	98-08-8	

Sample: MW-40D									
Lab ID: 40177479009									
Collected: 10/09/18 18:45									
Received: 10/11/18 09:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 13:39	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 13:39	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 13:39	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 13:39	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 13:39	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 13:39	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 13:39	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 13:39	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 13:39	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 13:39	98-08-8	

Sample: MW-40S									
Lab ID: 40177479010									
Collected: 10/09/18 18:20									
Received: 10/11/18 09:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 14:04	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 14:04	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 14:04	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 14:04	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 14:04	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 14:04	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 14:04	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 14:04	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 14:04	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 14:04	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-36S **Lab ID: 40177479011** Collected: 10/09/18 16:30 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 15:21	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 15:21	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 15:21	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 15:21	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 15:21	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 15:21	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 15:21	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 15:21	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 15:21	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 15:21	98-08-8	

Sample: MW-36DD **Lab ID: 40177479012** Collected: 10/09/18 17:10 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 15:47	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 15:47	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 15:47	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 15:47	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 15:47	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 15:47	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 15:47	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 15:47	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 15:47	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 15:47	98-08-8	

Sample: MW-37S **Lab ID: 40177479013** Collected: 10/09/18 17:40 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 16:12	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 16:12	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 16:12	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 16:12	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 16:12	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 16:12	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 16:12	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 16:12	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 16:12	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-37S Lab ID: 40177479013 Collected: 10/09/18 17:40 Received: 10/11/18 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 16:12	98-08-8	

Sample: MW-41DD Lab ID: 40177479014 Collected: 10/10/18 09:25 Received: 10/11/18 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 16:38	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 16:38	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 16:38	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 16:38	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 16:38	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 16:38	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 16:38	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 16:38	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 16:38	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 16:38	98-08-8	

Sample: MW-38D Lab ID: 40177479015 Collected: 10/10/18 09:00 Received: 10/11/18 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 17:03	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 17:03	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 17:03	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 17:03	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 17:03	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 17:03	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 17:03	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 17:03	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 17:03	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 17:03	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-38S Lab ID: 40177479016 Collected: 10/10/18 09:15 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 17:29	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 17:29	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 17:29	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 17:29	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 17:29	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 17:29	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 17:29	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 17:29	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 17:29	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 17:29	98-08-8	

Sample: MW-38DD Lab ID: 40177479017 Collected: 10/10/18 13:45 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 17:54	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 17:54	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 17:54	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 17:54	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 17:54	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 17:54	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 17:54	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 17:54	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 17:54	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 17:54	98-08-8	

Sample: MW-48D Lab ID: 40177479018 Collected: 10/10/18 11:00 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 18:20	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 18:20	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 18:20	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 18:20	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 18:20	108-88-3	
1,2,4-Trimethylbenzene	0.35J	ug/L	1.1	0.34	1		10/12/18 18:20	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 18:20	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 18:20	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 18:20	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-48D Lab ID: 40177479018 Collected: 10/10/18 11:00 Received: 10/11/18 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/12/18 18:20	98-08-8	

Sample: MW-48S Lab ID: 40177479019 Collected: 10/10/18 10:50 Received: 10/11/18 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 18:45	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 18:45	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 18:45	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 18:45	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 18:45	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 18:45	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 18:45	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 18:45	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 18:45	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 18:45	98-08-8	

Sample: MW-49D Lab ID: 40177479020 Collected: 10/10/18 11:45 Received: 10/11/18 09:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/12/18 19:11	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 19:11	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/12/18 19:11	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/12/18 19:11	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/12/18 19:11	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/12/18 19:11	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/12/18 19:11	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/12/18 19:11	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/12/18 19:11	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/12/18 19:11	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MW-49S **Lab ID: 40177479021** Collected: 10/10/18 11:35 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1970	ug/L	5.1	1.5	5		10/15/18 16:01	71-43-2	
Ethylbenzene	1.7J	ug/L	5.5	1.6	5		10/15/18 16:01	100-41-4	
Methyl-tert-butyl ether	<1.6	ug/L	5.4	1.6	5		10/15/18 16:01	1634-04-4	
Naphthalene	<2.5	ug/L	8.4	2.5	5		10/15/18 16:01	91-20-3	
Toluene	37.2	ug/L	8.2	2.4	5		10/15/18 16:01	108-88-3	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.7	1.7	5		10/15/18 16:01	95-63-6	
1,3,5-Trimethylbenzene	<1.6	ug/L	5.4	1.6	5		10/15/18 16:01	108-67-8	
m&p-Xylene	<3.3	ug/L	10.9	3.3	5		10/15/18 16:01	179601-23-1	
o-Xylene	4.0J	ug/L	5.2	1.6	5		10/15/18 16:01	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		5		10/15/18 16:01	98-08-8	

Sample: MWOW-2D **Lab ID: 40177479022** Collected: 10/10/18 13:00 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 11:17	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 11:17	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 11:17	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 11:17	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 11:17	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 11:17	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 11:17	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 11:17	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 11:17	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/15/18 11:17	98-08-8	

Sample: MWBD-1DD **Lab ID: 40177479023** Collected: 10/10/18 13:15 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 11:43	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 11:43	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 11:43	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 11:43	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 11:43	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 11:43	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 11:43	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 11:43	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 11:43	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Sample: MWBD-1DD **Lab ID: 40177479023** Collected: 10/10/18 13:15 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/15/18 11:43	98-08-8	

Sample: TRIP BLANK **Lab ID: 40177479024** Collected: 10/10/18 00:00 Received: 10/11/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 19:53	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 19:53	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 19:53	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 19:53	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 19:53	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 19:53	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 19:53	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 19:53	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 19:53	95-47-6	
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/15/18 19:53	98-08-8	

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177479

QC Batch: 302990 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40177479001, 40177479002, 40177479003, 40177479004, 40177479005, 40177479006, 40177479007, 40177479008, 40177479009, 40177479010, 40177479011, 40177479012, 40177479013, 40177479014, 40177479015, 40177479016, 40177479017, 40177479018, 40177479019, 40177479020

METHOD BLANK: 1769754 Matrix: Water
Associated Lab Samples: 40177479001, 40177479002, 40177479003, 40177479004, 40177479005, 40177479006, 40177479007, 40177479008, 40177479009, 40177479010, 40177479011, 40177479012, 40177479013, 40177479014, 40177479015, 40177479016, 40177479017, 40177479018, 40177479019, 40177479020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/12/18 08:32	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/12/18 08:32	
Benzene	ug/L	<0.31	1.0	10/12/18 08:32	
Ethylbenzene	ug/L	<0.33	1.1	10/12/18 08:32	
m&p-Xylene	ug/L	<0.66	2.2	10/12/18 08:32	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/12/18 08:32	
Naphthalene	ug/L	<0.51	1.7	10/12/18 08:32	
o-Xylene	ug/L	<0.32	1.0	10/12/18 08:32	
Toluene	ug/L	<0.49	1.6	10/12/18 08:32	
a,a,a-Trifluorotoluene (S)	%	100	80-120	10/12/18 08:32	

LABORATORY CONTROL SAMPLE & LCSD: 1769755 1769756

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.9	20.8	104	104	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.3	20.1	101	100	80-120	1	20	
Benzene	ug/L	20	21.3	19.9	106	100	80-120	6	20	
Ethylbenzene	ug/L	20	20.9	20.2	104	101	80-120	3	20	
m&p-Xylene	ug/L	40	41.4	40.6	104	101	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	21.0	20.0	105	100	80-120	5	20	
Naphthalene	ug/L	20	19.4	20.0	97	100	80-120	3	20	
o-Xylene	ug/L	20	21.1	20.6	105	103	80-120	2	20	
Toluene	ug/L	20	21.3	20.2	107	101	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				98	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1769952 1769953

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40177479001 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	20.8	21.4	104	107	51-160	3	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	20.2	21.0	101	105	56-146	4	20
Benzene	ug/L	<0.31	20	20	21.1	21.3	106	106	71-137	1	20
Ethylbenzene	ug/L	<0.33	20	20	21.0	21.6	105	108	71-141	3	20
m&p-Xylene	ug/L	<0.66	40	40	41.7	43.0	104	108	66-141	3	20
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.3	20.5	101	103	80-120	1	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Parameter	Units	40177479001		1769952		1769953		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Naphthalene	ug/L	<0.51	20	20	18.9	20.2	94	101	67-138	7	20			
o-Xylene	ug/L	<0.32	20	20	21.0	21.6	105	108	75-133	3	20			
Toluene	ug/L	<0.49	20	20	21.2	21.6	106	108	76-134	2	20			
a,a,a-Trifluorotoluene (S)	%						100	100	80-120					

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177479

QC Batch: 303137 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40177479021, 40177479022, 40177479023, 40177479024

METHOD BLANK: 1770756 Matrix: Water
Associated Lab Samples: 40177479021, 40177479022, 40177479023, 40177479024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/15/18 09:34	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/15/18 09:34	
Benzene	ug/L	<0.31	1.0	10/15/18 09:34	
Ethylbenzene	ug/L	<0.33	1.1	10/15/18 09:34	
m&p-Xylene	ug/L	<0.66	2.2	10/15/18 09:34	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/15/18 09:34	
Naphthalene	ug/L	<0.51	1.7	10/15/18 09:34	
o-Xylene	ug/L	<0.32	1.0	10/15/18 09:34	
Toluene	ug/L	<0.49	1.6	10/15/18 09:34	
a,a,a-Trifluorotoluene (S)	%	102	80-120	10/15/18 09:34	

LABORATORY CONTROL SAMPLE & LCSD: 1770757 1770758

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.1	21.2	106	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	20.6	103	103	80-120	0	20	
Benzene	ug/L	20	20.1	20.0	101	100	80-120	1	20	
Ethylbenzene	ug/L	20	20.7	20.6	104	103	80-120	1	20	
m&p-Xylene	ug/L	40	40.9	40.6	102	101	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.4	18.9	97	94	80-120	3	20	
Naphthalene	ug/L	20	21.2	21.0	106	105	80-120	1	20	
o-Xylene	ug/L	20	20.7	20.4	103	102	80-120	1	20	
Toluene	ug/L	20	20.3	20.3	102	101	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1771231 1771232

Parameter	Units	40177479022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	18.4	18.5	92	92	51-160	0	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	16.7	16.8	84	84	56-146	0	20	
Benzene	ug/L	<0.31	20	20	21.5	22.1	108	110	71-137	2	20	
Ethylbenzene	ug/L	<0.33	20	20	21.6	22.1	108	111	71-141	2	20	
m&p-Xylene	ug/L	<0.66	40	40	39.8	40.4	99	101	66-141	2	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	19.7	19.4	99	97	80-120	1	20	
Naphthalene	ug/L	<0.51	20	20	21.6	21.5	108	107	67-138	1	20	
o-Xylene	ug/L	<0.32	20	20	20.2	20.3	101	102	75-133	1	20	
Toluene	ug/L	<0.49	20	20	21.4	21.7	107	108	76-134	1	20	

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1771231		1771232									
Parameter	Units	40177479022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
a,a,a-Trifluorotoluene (S)	%						101	99	80-120				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177479

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177479001	MW-52D	WI MOD GRO	302990		
40177479002	MW-52DD	WI MOD GRO	302990		
40177479003	MW-50D	WI MOD GRO	302990		
40177479004	MW-51D	WI MOD GRO	302990		
40177479005	MW-46D	WI MOD GRO	302990		
40177479006	MW-46S	WI MOD GRO	302990		
40177479007	MW-45S	WI MOD GRO	302990		
40177479008	MW-41S	WI MOD GRO	302990		
40177479009	MW-40D	WI MOD GRO	302990		
40177479010	MW-40S	WI MOD GRO	302990		
40177479011	MW-36S	WI MOD GRO	302990		
40177479012	MW-36DD	WI MOD GRO	302990		
40177479013	MW-37S	WI MOD GRO	302990		
40177479014	MW-41DD	WI MOD GRO	302990		
40177479015	MW-38D	WI MOD GRO	302990		
40177479016	MW-38S	WI MOD GRO	302990		
40177479017	MW-38DD	WI MOD GRO	302990		
40177479018	MW-48D	WI MOD GRO	302990		
40177479019	MW-48S	WI MOD GRO	302990		
40177479020	MW-49D	WI MOD GRO	302990		
40177479021	MW-49S	WI MOD GRO	303137		
40177479022	MWOW-2D	WI MOD GRO	303137		
40177479023	MWBD-1DD	WI MOD GRO	303137		
40177479024	TRIP BLANK	WI MOD GRO	303137		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40177479

Section A		Section B		Section C					
Required Client Information:		Required Project Information:		Invoice Information:					
Company: Antea Group	Report To: Jonathan Zimdars	Attention: Jonathan Zimdars	Page: <u>1</u> of <u>2</u>						
Address: 5910 River Creek Pkwy	Copy To: Todd Kramm Layne Kortbein	Company Name: Antea Group	<table border="1"> <tr><td>Regulatory Agency</td></tr> <tr><td></td></tr> <tr><td>State / Location</td></tr> <tr><td>WI</td></tr> </table>			Regulatory Agency		State / Location	WI
Regulatory Agency									
State / Location									
WI									
Suite 100, Shoreview, MN 55126	Layne.Kortbein@anteagroup.com	Address: 5910 Rice Creek Pkwy, Shoreview, MN 55126							
Email: Todd.kramm@anteagroup.com see copy to →	Purchase Order #:	Pace Quote: N/A							
Phone: 651-587-9658 Fax	Project Name: Superior Terminal	Pace Project Manager: Chris Hyska - Pace-GB							
Requested Due Date:	Project #: WISUP181	Pace Profile #: 4192							

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	CODE <small>(see valid codes to left)</small>	MATRIX TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
					START		END			# OF CONTAINERS	Preservatives													
DATE	TIME	DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	Analyses Test											
1	MW-52D	001				10/9	9:45	3																
2	MW-52DD	002					9:50	3																
3	MW-50D	003					11:00	3																
4	MW-51D	004					11:40	3																
5	MW-46D	005					13:30	3																
6	MW-46S	006					13:00	3																
7	MW-45S	007					15:45	3																
8	MW-41S	008					16:15	3																
9	MW-40D	009					18:45	3																
10	MW-40S	010					18:20	3																
11	MW-36S	011					10:30	3																
12	MW-36DD	012					17:10	3																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Send to Pace Green Bay - Overnight shipping	Layne Kortbein Fedex	10/10/18	15:05	<i>[Signature]</i> me	10/10/18	15:05	6.3	Y	N	Y
		10/11/18	09:20	<i>[Signature]</i>	10/11/18	09:20	RT	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Layne Kortbein					
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed:				

Sample Preservation Receipt Form

Client Name: Antea

Project # 40177479

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T	ZPLC
001																	3															2.5 / 5 / 10
002																	3															2.5 / 5 / 10
003																	3															2.5 / 5 / 10
004																	3															2.5 / 5 / 10
005																	3															2.5 / 5 / 10
006																	3															2.5 / 5 / 10
007																	3															2.5 / 5 / 10
008																	3															2.5 / 5 / 10
009																	3															2.5 / 5 / 10
010																	3															2.5 / 5 / 10
011																	3															2.5 / 5 / 10
012																	3															2.5 / 5 / 10
013																	3															2.5 / 5 / 10
014																	3															2.5 / 5 / 10
015																	3															2.5 / 5 / 10
016																	3															2.5 / 5 / 10
017																	3															2.5 / 5 / 10
018																	3															2.5 / 5 / 10
019																	3															2.5 / 5 / 10
020																	3															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3C 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

Sample Preservation Receipt Form

Client Name: Arta

Project #: 40177479

Pace Lab #	Glass							Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H ₂ SO ₄ pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO ₃ pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
021																	3																2.5 / 5 / 10
022																	3																2.5 / 5 / 10
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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018
 Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # _____

Client Name: Antea

WO#: 40177479

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 6779 8896 7060

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 10.5 Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 10/11/18
 Initials: _____

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>407</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ GH

Date: 10/11/18

October 19, 2018

Jonathan Zimdars
Antea Group - MN
5910 Rice Creek Parkway
Saint Paul, MN 55126

RE: Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177656

Dear Jonathan Zimdars:

Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Layne Kortbein, Antea Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177656

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177656001	MWM-2D	Water	10/10/18 16:30	10/13/18 09:05
40177656002	MW-30DD	Water	10/10/18 18:00	10/13/18 09:05
40177656003	MW-30DDD	Water	10/10/18 18:45	10/13/18 09:05
40177656004	MWT-2S	Water	10/10/18 18:15	10/13/18 09:05
40177656005	MW-37DDD	Water	10/11/18 16:40	10/13/18 09:05
40177656006	MW-41D	Water	10/11/18 10:30	10/13/18 09:05
40177656007	MWRR-1DR	Water	10/11/18 14:40	10/13/18 09:05
40177656008	MWBD-1D	Water	10/11/18 14:30	10/13/18 09:05
40177656009	MW-45D	Water	10/11/18 12:00	10/13/18 09:05
40177656010	MW-30S	Water	10/11/18 15:30	10/13/18 09:05
40177656011	MWM-10D	Water	10/11/18 15:35	10/13/18 09:05
40177656012	MW-37DD	Water	10/11/18 17:05	10/13/18 09:05
40177656013	MW-36D	Water	10/11/18 17:30	10/13/18 09:05
40177656014	MW-30D	Water	10/11/18 17:40	10/13/18 09:05
40177656015	MWM-7D	Water	10/12/18 09:05	10/13/18 09:05
40177656016	MWM-9RD	Water	10/12/18 10:20	10/13/18 09:05
40177656017	MW-37D	Water	10/12/18 09:15	10/13/18 09:05
40177656018	MWT-2D	Water	10/12/18 10:30	10/13/18 09:05
40177656019	DUP-1	Water	10/12/18 00:00	10/13/18 09:05
40177656020	DUP-2	Water	10/12/18 00:00	10/13/18 09:05
40177656021	DUP-3	Water	10/12/18 00:00	10/13/18 09:05
40177656022	DUP-4	Water	10/12/18 00:00	10/13/18 09:05
40177656023	TRIP BLANK	Water	10/12/18 00:00	10/13/18 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177656

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40177656001	MWM-2D	WI MOD GRO	ALD	10	PASI-G
40177656002	MW-30DD	WI MOD GRO	ALD	10	PASI-G
40177656003	MW-30DDD	WI MOD GRO	ALD	10	PASI-G
40177656004	MWT-2S	WI MOD GRO	ALD	10	PASI-G
40177656005	MW-37DDD	WI MOD GRO	ALD	10	PASI-G
40177656006	MW-41D	WI MOD GRO	ALD	10	PASI-G
40177656007	MWRR-1DR	WI MOD GRO	ALD	10	PASI-G
40177656008	MWBD-1D	WI MOD GRO	ALD	10	PASI-G
40177656009	MW-45D	WI MOD GRO	ALD	10	PASI-G
40177656010	MW-30S	WI MOD GRO	ALD	10	PASI-G
40177656011	MWM-10D	WI MOD GRO	ALD	10	PASI-G
40177656012	MW-37DD	WI MOD GRO	ALD	10	PASI-G
40177656013	MW-36D	WI MOD GRO	ALD	10	PASI-G
40177656014	MW-30D	WI MOD GRO	ALD	10	PASI-G
40177656015	MWM-7D	WI MOD GRO	ALD	10	PASI-G
40177656016	MWM-9RD	WI MOD GRO	ALD	10	PASI-G
40177656017	MW-37D	WI MOD GRO	ALD	10	PASI-G
40177656018	MWT-2D	WI MOD GRO	ALD	10	PASI-G
40177656019	DUP-1	WI MOD GRO	ALD	10	PASI-G
40177656020	DUP-2	WI MOD GRO	ALD	10	PASI-G
40177656021	DUP-3	WI MOD GRO	ALD	10	PASI-G
40177656022	DUP-4	WI MOD GRO	ALD	10	PASI-G
40177656023	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40177656005	MW-37DDD					
WI MOD GRO	Benzene	2.8	ug/L	1.0	10/15/18 14:40	
40177656006	MW-41D					
WI MOD GRO	Benzene	28.4	ug/L	1.0	10/15/18 20:37	
40177656007	MWRR-1DR					
WI MOD GRO	Benzene	510	ug/L	10.2	10/15/18 18:04	
WI MOD GRO	Toluene	7.2J	ug/L	16.3	10/15/18 18:04	
WI MOD GRO	o-Xylene	4.7J	ug/L	10.5	10/15/18 18:04	
40177656008	MWBD-1D					
WI MOD GRO	Benzene	110	ug/L	1.0	10/15/18 16:48	
40177656009	MW-45D					
WI MOD GRO	Benzene	121	ug/L	1.0	10/15/18 17:13	
40177656010	MW-30S					
WI MOD GRO	Benzene	409	ug/L	5.1	10/16/18 10:48	
WI MOD GRO	Ethylbenzene	88.3	ug/L	5.5	10/16/18 10:48	
WI MOD GRO	Methyl-tert-butyl ether	2.0J	ug/L	5.4	10/16/18 10:48	
WI MOD GRO	Naphthalene	57.3	ug/L	8.4	10/16/18 10:48	
WI MOD GRO	Toluene	118	ug/L	8.2	10/16/18 10:48	
WI MOD GRO	1,2,4-Trimethylbenzene	33.3	ug/L	5.7	10/16/18 10:48	
WI MOD GRO	1,3,5-Trimethylbenzene	12.8	ug/L	5.4	10/16/18 10:48	
WI MOD GRO	m&p-Xylene	73.0	ug/L	10.9	10/16/18 10:48	
WI MOD GRO	o-Xylene	40.7	ug/L	5.2	10/16/18 10:48	
40177656011	MWM-10D					
WI MOD GRO	Benzene	1140	ug/L	10.2	10/15/18 18:55	
WI MOD GRO	Ethylbenzene	7.8J	ug/L	11.0	10/15/18 18:55	
WI MOD GRO	Methyl-tert-butyl ether	5.7J	ug/L	10.7	10/15/18 18:55	
WI MOD GRO	Naphthalene	7.0J	ug/L	16.8	10/15/18 18:55	
WI MOD GRO	Toluene	27.8	ug/L	16.3	10/15/18 18:55	
WI MOD GRO	m&p-Xylene	22.5	ug/L	21.8	10/15/18 18:55	
40177656012	MW-37DD					
WI MOD GRO	Benzene	1260	ug/L	10.2	10/15/18 19:20	
40177656013	MW-36D					
WI MOD GRO	Benzene	1690	ug/L	25.5	10/15/18 17:39	
WI MOD GRO	Ethylbenzene	11.1J	ug/L	27.5	10/15/18 17:39	
WI MOD GRO	Toluene	37.3J	ug/L	40.8	10/15/18 17:39	
40177656014	MW-30D					
WI MOD GRO	Benzene	1830	ug/L	25.5	10/17/18 17:44	
WI MOD GRO	Ethylbenzene	52.3	ug/L	27.5	10/17/18 17:44	
WI MOD GRO	Naphthalene	168	ug/L	42.0	10/17/18 17:44	
WI MOD GRO	Toluene	68.8	ug/L	40.8	10/17/18 17:44	
WI MOD GRO	m&p-Xylene	57.5	ug/L	54.5	10/17/18 17:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40177656015	MWM-7D					
WI MOD GRO	Benzene	2250	ug/L	20.4	10/17/18 19:26	
WI MOD GRO	Ethylbenzene	50.4	ug/L	22.0	10/17/18 19:26	
WI MOD GRO	Toluene	43.5	ug/L	32.6	10/17/18 19:26	
WI MOD GRO	m&p-Xylene	48.8	ug/L	43.6	10/17/18 19:26	
40177656016	MWM-9RD					
WI MOD GRO	Benzene	2400	ug/L	25.5	10/17/18 18:09	
WI MOD GRO	Ethylbenzene	149	ug/L	27.5	10/17/18 18:09	
WI MOD GRO	Methyl-tert-butyl ether	165	ug/L	26.8	10/17/18 18:09	
WI MOD GRO	Naphthalene	48.6	ug/L	42.0	10/17/18 18:09	
WI MOD GRO	Toluene	101	ug/L	40.8	10/17/18 18:09	
WI MOD GRO	1,2,4-Trimethylbenzene	77.2	ug/L	28.5	10/17/18 18:09	
WI MOD GRO	1,3,5-Trimethylbenzene	34.8	ug/L	27.2	10/17/18 18:09	
WI MOD GRO	m&p-Xylene	208	ug/L	54.5	10/17/18 18:09	
40177656017	MW-37D					
WI MOD GRO	Benzene	2450	ug/L	25.5	10/17/18 18:35	
WI MOD GRO	Ethylbenzene	27.9	ug/L	27.5	10/17/18 18:35	
WI MOD GRO	Toluene	84.1	ug/L	40.8	10/17/18 18:35	
WI MOD GRO	m&p-Xylene	52.5J	ug/L	54.5	10/17/18 18:35	
40177656018	MWT-2D					
WI MOD GRO	Benzene	3100	ug/L	40.8	10/17/18 17:18	
WI MOD GRO	Ethylbenzene	286	ug/L	44.0	10/17/18 17:18	
WI MOD GRO	Methyl-tert-butyl ether	129	ug/L	42.8	10/17/18 17:18	
WI MOD GRO	Naphthalene	127	ug/L	67.2	10/17/18 17:18	
WI MOD GRO	Toluene	163	ug/L	65.2	10/17/18 17:18	
WI MOD GRO	1,2,4-Trimethylbenzene	105	ug/L	45.6	10/17/18 17:18	
WI MOD GRO	1,3,5-Trimethylbenzene	44.4	ug/L	43.6	10/17/18 17:18	
WI MOD GRO	m&p-Xylene	278	ug/L	87.2	10/17/18 17:18	
WI MOD GRO	o-Xylene	25.5J	ug/L	42.0	10/17/18 17:18	
40177656019	DUP-1					
WI MOD GRO	Benzene	2290	ug/L	25.5	10/18/18 10:06	
WI MOD GRO	Ethylbenzene	52.8	ug/L	27.5	10/18/18 10:06	
WI MOD GRO	Toluene	45.6	ug/L	40.8	10/18/18 10:06	
WI MOD GRO	m&p-Xylene	53.8J	ug/L	54.5	10/18/18 10:06	
40177656020	DUP-2					
WI MOD GRO	Benzene	2380	ug/L	51.0	10/17/18 16:53	
WI MOD GRO	Ethylbenzene	144	ug/L	55.0	10/17/18 16:53	
WI MOD GRO	Methyl-tert-butyl ether	163	ug/L	53.5	10/17/18 16:53	
WI MOD GRO	Naphthalene	48.9J	ug/L	84.0	10/17/18 16:53	
WI MOD GRO	Toluene	94.9	ug/L	81.5	10/17/18 16:53	
WI MOD GRO	1,2,4-Trimethylbenzene	75.3	ug/L	57.0	10/17/18 16:53	
WI MOD GRO	1,3,5-Trimethylbenzene	35.2J	ug/L	54.5	10/17/18 16:53	
WI MOD GRO	m&p-Xylene	198	ug/L	109	10/17/18 16:53	
40177656021	DUP-3					
WI MOD GRO	Benzene	2050	ug/L	25.5	10/17/18 19:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40177656021	DUP-3					
WI MOD GRO	Ethylbenzene	21.7J	ug/L	27.5	10/17/18 19:00	
WI MOD GRO	Toluene	70.9	ug/L	40.8	10/17/18 19:00	
WI MOD GRO	m&p-Xylene	42.2J	ug/L	54.5	10/17/18 19:00	
40177656022	DUP-4					
WI MOD GRO	Benzene	3210	ug/L	40.8	10/18/18 09:40	
WI MOD GRO	Ethylbenzene	303	ug/L	44.0	10/18/18 09:40	
WI MOD GRO	Methyl-tert-butyl ether	134	ug/L	42.8	10/18/18 09:40	
WI MOD GRO	Naphthalene	135	ug/L	67.2	10/18/18 09:40	
WI MOD GRO	Toluene	170	ug/L	65.2	10/18/18 09:40	
WI MOD GRO	1,2,4-Trimethylbenzene	114	ug/L	45.6	10/18/18 09:40	
WI MOD GRO	1,3,5-Trimethylbenzene	47.3	ug/L	43.6	10/18/18 09:40	
WI MOD GRO	m&p-Xylene	296	ug/L	87.2	10/18/18 09:40	
WI MOD GRO	o-Xylene	30.4J	ug/L	42.0	10/18/18 09:40	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Method: WI MOD GRO

Description: WIGRO GCV

Client: Antea Group

Date: October 19, 2018

General Information:

23 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MWM-2D Lab ID: 40177656001 Collected: 10/10/18 16:30 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 13:23	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 13:23	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 13:23	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 13:23	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 13:23	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 13:23	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 13:23	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 13:23	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 13:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/15/18 13:23	98-08-8	

Sample: MW-30DD Lab ID: 40177656002 Collected: 10/10/18 18:00 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 13:49	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 13:49	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 13:49	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 13:49	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 13:49	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 13:49	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 13:49	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 13:49	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 13:49	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/15/18 13:49	98-08-8	

Sample: MW-30DDD Lab ID: 40177656003 Collected: 10/10/18 18:45 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 14:14	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 14:14	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 14:14	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 14:14	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 14:14	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 14:14	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 14:14	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 14:14	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 14:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MW-30DDD **Lab ID: 40177656003** Collected: 10/10/18 18:45 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Surrogates

a,a,a-Trifluorotoluene (S)	98	%	80-120		1		10/15/18 14:14	98-08-8	
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Sample: MWT-2S **Lab ID: 40177656004** Collected: 10/10/18 18:15 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	<0.31	ug/L	1.0	0.31	1		10/15/18 20:12	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 20:12	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 20:12	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 20:12	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 20:12	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 20:12	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 20:12	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 20:12	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 20:12	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		10/15/18 20:12	98-08-8	

Sample: MW-37DDD **Lab ID: 40177656005** Collected: 10/11/18 16:40 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	2.8	ug/L	1.0	0.31	1		10/15/18 14:40	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 14:40	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 14:40	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 14:40	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 14:40	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 14:40	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 14:40	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 14:40	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 14:40	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		10/15/18 14:40	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MW-41D **Lab ID: 40177656006** Collected: 10/11/18 10:30 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	28.4	ug/L	1.0	0.31	1		10/15/18 20:37	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 20:37	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 20:37	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 20:37	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 20:37	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 20:37	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 20:37	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 20:37	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 20:37	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/15/18 20:37	98-08-8	

Sample: MWRR-1DR **Lab ID: 40177656007** Collected: 10/11/18 14:40 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	510	ug/L	10.2	3.1	10		10/15/18 18:04	71-43-2	
Ethylbenzene	<3.3	ug/L	11.0	3.3	10		10/15/18 18:04	100-41-4	
Methyl-tert-butyl ether	<3.2	ug/L	10.7	3.2	10		10/15/18 18:04	1634-04-4	
Naphthalene	<5.1	ug/L	16.8	5.1	10		10/15/18 18:04	91-20-3	
Toluene	7.2J	ug/L	16.3	4.9	10		10/15/18 18:04	108-88-3	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.4	3.4	10		10/15/18 18:04	95-63-6	
1,3,5-Trimethylbenzene	<3.3	ug/L	10.9	3.3	10		10/15/18 18:04	108-67-8	
m&p-Xylene	<6.6	ug/L	21.8	6.6	10		10/15/18 18:04	179601-23-1	
o-Xylene	4.7J	ug/L	10.5	3.2	10		10/15/18 18:04	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		10		10/15/18 18:04	98-08-8	

Sample: MWBD-1D **Lab ID: 40177656008** Collected: 10/11/18 14:30 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	110	ug/L	1.0	0.31	1		10/15/18 16:48	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 16:48	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 16:48	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 16:48	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 16:48	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 16:48	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 16:48	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 16:48	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 16:48	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MWBD-1D **Lab ID: 40177656008** Collected: 10/11/18 14:30 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Surrogates

a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/15/18 16:48	98-08-8	
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Sample: MW-45D **Lab ID: 40177656009** Collected: 10/11/18 12:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	121	ug/L	1.0	0.31	1		10/15/18 17:13	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 17:13	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/15/18 17:13	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/15/18 17:13	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/15/18 17:13	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/15/18 17:13	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/15/18 17:13	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/15/18 17:13	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/15/18 17:13	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1		10/15/18 17:13	98-08-8	

Sample: MW-30S **Lab ID: 40177656010** Collected: 10/11/18 15:30 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	409	ug/L	5.1	1.5	5		10/16/18 10:48	71-43-2	
Ethylbenzene	88.3	ug/L	5.5	1.6	5		10/16/18 10:48	100-41-4	
Methyl-tert-butyl ether	2.0J	ug/L	5.4	1.6	5		10/16/18 10:48	1634-04-4	
Naphthalene	57.3	ug/L	8.4	2.5	5		10/16/18 10:48	91-20-3	
Toluene	118	ug/L	8.2	2.4	5		10/16/18 10:48	108-88-3	
1,2,4-Trimethylbenzene	33.3	ug/L	5.7	1.7	5		10/16/18 10:48	95-63-6	
1,3,5-Trimethylbenzene	12.8	ug/L	5.4	1.6	5		10/16/18 10:48	108-67-8	
m&p-Xylene	73.0	ug/L	10.9	3.3	5		10/16/18 10:48	179601-23-1	
o-Xylene	40.7	ug/L	5.2	1.6	5		10/16/18 10:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		5		10/16/18 10:48	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MWM-10D Lab ID: 40177656011 Collected: 10/11/18 15:35 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1140	ug/L	10.2	3.1	10		10/15/18 18:55	71-43-2	
Ethylbenzene	7.8J	ug/L	11.0	3.3	10		10/15/18 18:55	100-41-4	
Methyl-tert-butyl ether	5.7J	ug/L	10.7	3.2	10		10/15/18 18:55	1634-04-4	
Naphthalene	7.0J	ug/L	16.8	5.1	10		10/15/18 18:55	91-20-3	
Toluene	27.8	ug/L	16.3	4.9	10		10/15/18 18:55	108-88-3	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.4	3.4	10		10/15/18 18:55	95-63-6	
1,3,5-Trimethylbenzene	<3.3	ug/L	10.9	3.3	10		10/15/18 18:55	108-67-8	
m&p-Xylene	22.5	ug/L	21.8	6.6	10		10/15/18 18:55	179601-23-1	
o-Xylene	<3.2	ug/L	10.5	3.2	10		10/15/18 18:55	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		10		10/15/18 18:55	98-08-8	

Sample: MW-37DD Lab ID: 40177656012 Collected: 10/11/18 17:05 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1260	ug/L	10.2	3.1	10		10/15/18 19:20	71-43-2	
Ethylbenzene	<3.3	ug/L	11.0	3.3	10		10/15/18 19:20	100-41-4	
Methyl-tert-butyl ether	<3.2	ug/L	10.7	3.2	10		10/15/18 19:20	1634-04-4	
Naphthalene	<5.1	ug/L	16.8	5.1	10		10/15/18 19:20	91-20-3	
Toluene	<4.9	ug/L	16.3	4.9	10		10/15/18 19:20	108-88-3	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.4	3.4	10		10/15/18 19:20	95-63-6	
1,3,5-Trimethylbenzene	<3.3	ug/L	10.9	3.3	10		10/15/18 19:20	108-67-8	
m&p-Xylene	<6.6	ug/L	21.8	6.6	10		10/15/18 19:20	179601-23-1	
o-Xylene	<3.2	ug/L	10.5	3.2	10		10/15/18 19:20	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		10		10/15/18 19:20	98-08-8	

Sample: MW-36D Lab ID: 40177656013 Collected: 10/11/18 17:30 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1690	ug/L	25.5	7.6	25		10/15/18 17:39	71-43-2	
Ethylbenzene	11.1J	ug/L	27.5	8.2	25		10/15/18 17:39	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		10/15/18 17:39	1634-04-4	
Naphthalene	<12.6	ug/L	42.0	12.6	25		10/15/18 17:39	91-20-3	
Toluene	37.3J	ug/L	40.8	12.2	25		10/15/18 17:39	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		10/15/18 17:39	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		10/15/18 17:39	108-67-8	
m&p-Xylene	<16.4	ug/L	54.5	16.4	25		10/15/18 17:39	179601-23-1	
o-Xylene	<7.9	ug/L	26.2	7.9	25		10/15/18 17:39	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MW-36D **Lab ID: 40177656013** Collected: 10/11/18 17:30 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Surrogates

a,a,a-Trifluorotoluene (S)	98	%	80-120		25		10/15/18 17:39	98-08-8	
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Sample: MW-30D **Lab ID: 40177656014** Collected: 10/11/18 17:40 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	1830	ug/L	25.5	7.6	25		10/17/18 17:44	71-43-2	
Ethylbenzene	52.3	ug/L	27.5	8.2	25		10/17/18 17:44	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		10/17/18 17:44	1634-04-4	
Naphthalene	168	ug/L	42.0	12.6	25		10/17/18 17:44	91-20-3	
Toluene	68.8	ug/L	40.8	12.2	25		10/17/18 17:44	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		10/17/18 17:44	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		10/17/18 17:44	108-67-8	
m&p-Xylene	57.5	ug/L	54.5	16.4	25		10/17/18 17:44	179601-23-1	
o-Xylene	<7.9	ug/L	26.2	7.9	25		10/17/18 17:44	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		25		10/17/18 17:44	98-08-8	

Sample: MWM-7D **Lab ID: 40177656015** Collected: 10/12/18 09:05 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	2250	ug/L	20.4	6.1	20		10/17/18 19:26	71-43-2	
Ethylbenzene	50.4	ug/L	22.0	6.6	20		10/17/18 19:26	100-41-4	
Methyl-tert-butyl ether	<6.4	ug/L	21.4	6.4	20		10/17/18 19:26	1634-04-4	
Naphthalene	<10.1	ug/L	33.6	10.1	20		10/17/18 19:26	91-20-3	
Toluene	43.5	ug/L	32.6	9.8	20		10/17/18 19:26	108-88-3	
1,2,4-Trimethylbenzene	<6.8	ug/L	22.8	6.8	20		10/17/18 19:26	95-63-6	
1,3,5-Trimethylbenzene	<6.6	ug/L	21.8	6.6	20		10/17/18 19:26	108-67-8	
m&p-Xylene	48.8	ug/L	43.6	13.1	20		10/17/18 19:26	179601-23-1	
o-Xylene	<6.3	ug/L	21.0	6.3	20		10/17/18 19:26	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		20		10/17/18 19:26	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MWM-9RD Lab ID: 40177656016 Collected: 10/12/18 10:20 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2400	ug/L	25.5	7.6	25		10/17/18 18:09	71-43-2	
Ethylbenzene	149	ug/L	27.5	8.2	25		10/17/18 18:09	100-41-4	
Methyl-tert-butyl ether	165	ug/L	26.8	8.0	25		10/17/18 18:09	1634-04-4	
Naphthalene	48.6	ug/L	42.0	12.6	25		10/17/18 18:09	91-20-3	
Toluene	101	ug/L	40.8	12.2	25		10/17/18 18:09	108-88-3	
1,2,4-Trimethylbenzene	77.2	ug/L	28.5	8.6	25		10/17/18 18:09	95-63-6	
1,3,5-Trimethylbenzene	34.8	ug/L	27.2	8.2	25		10/17/18 18:09	108-67-8	
m&p-Xylene	208	ug/L	54.5	16.4	25		10/17/18 18:09	179601-23-1	
o-Xylene	<7.9	ug/L	26.2	7.9	25		10/17/18 18:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		25		10/17/18 18:09	98-08-8	

Sample: MW-37D Lab ID: 40177656017 Collected: 10/12/18 09:15 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2450	ug/L	25.5	7.6	25		10/17/18 18:35	71-43-2	
Ethylbenzene	27.9	ug/L	27.5	8.2	25		10/17/18 18:35	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		10/17/18 18:35	1634-04-4	
Naphthalene	<12.6	ug/L	42.0	12.6	25		10/17/18 18:35	91-20-3	
Toluene	84.1	ug/L	40.8	12.2	25		10/17/18 18:35	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		10/17/18 18:35	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		10/17/18 18:35	108-67-8	
m&p-Xylene	52.5J	ug/L	54.5	16.4	25		10/17/18 18:35	179601-23-1	
o-Xylene	<7.9	ug/L	26.2	7.9	25		10/17/18 18:35	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		25		10/17/18 18:35	98-08-8	

Sample: MWT-2D Lab ID: 40177656018 Collected: 10/12/18 10:30 Received: 10/13/18 09:05 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3100	ug/L	40.8	12.2	40		10/17/18 17:18	71-43-2	
Ethylbenzene	286	ug/L	44.0	13.2	40		10/17/18 17:18	100-41-4	
Methyl-tert-butyl ether	129	ug/L	42.8	12.8	40		10/17/18 17:18	1634-04-4	
Naphthalene	127	ug/L	67.2	20.2	40		10/17/18 17:18	91-20-3	
Toluene	163	ug/L	65.2	19.6	40		10/17/18 17:18	108-88-3	
1,2,4-Trimethylbenzene	105	ug/L	45.6	13.7	40		10/17/18 17:18	95-63-6	
1,3,5-Trimethylbenzene	44.4	ug/L	43.6	13.1	40		10/17/18 17:18	108-67-8	
m&p-Xylene	278	ug/L	87.2	26.2	40		10/17/18 17:18	179601-23-1	
o-Xylene	25.5J	ug/L	42.0	12.6	40		10/17/18 17:18	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: MWT-2D **Lab ID: 40177656018** Collected: 10/12/18 10:30 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Surrogates

a,a,a-Trifluorotoluene (S)	98	%	80-120		40		10/17/18 17:18	98-08-8	
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Sample: DUP-1 **Lab ID: 40177656019** Collected: 10/12/18 00:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	2290	ug/L	25.5	7.6	25		10/18/18 10:06	71-43-2	
Ethylbenzene	52.8	ug/L	27.5	8.2	25		10/18/18 10:06	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		10/18/18 10:06	1634-04-4	
Naphthalene	<12.6	ug/L	42.0	12.6	25		10/18/18 10:06	91-20-3	
Toluene	45.6	ug/L	40.8	12.2	25		10/18/18 10:06	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		10/18/18 10:06	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		10/18/18 10:06	108-67-8	
m&p-Xylene	53.8J	ug/L	54.5	16.4	25		10/18/18 10:06	179601-23-1	
o-Xylene	<7.9	ug/L	26.2	7.9	25		10/18/18 10:06	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		25		10/18/18 10:06	98-08-8	

Sample: DUP-2 **Lab ID: 40177656020** Collected: 10/12/18 00:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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WIGRO GCV Analytical Method: WI MOD GRO

Benzene	2380	ug/L	51.0	15.3	50		10/17/18 16:53	71-43-2	
Ethylbenzene	144	ug/L	55.0	16.4	50		10/17/18 16:53	100-41-4	
Methyl-tert-butyl ether	163	ug/L	53.5	16.0	50		10/17/18 16:53	1634-04-4	
Naphthalene	48.9J	ug/L	84.0	25.3	50		10/17/18 16:53	91-20-3	
Toluene	94.9	ug/L	81.5	24.4	50		10/17/18 16:53	108-88-3	
1,2,4-Trimethylbenzene	75.3	ug/L	57.0	17.1	50		10/17/18 16:53	95-63-6	
1,3,5-Trimethylbenzene	35.2J	ug/L	54.5	16.4	50		10/17/18 16:53	108-67-8	
m&p-Xylene	198	ug/L	109	32.8	50		10/17/18 16:53	179601-23-1	
o-Xylene	<15.8	ug/L	52.5	15.8	50		10/17/18 16:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		50		10/17/18 16:53	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: DUP-3 **Lab ID: 40177656021** Collected: 10/12/18 00:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2050	ug/L	25.5	7.6	25		10/17/18 19:00	71-43-2	
Ethylbenzene	21.7J	ug/L	27.5	8.2	25		10/17/18 19:00	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		10/17/18 19:00	1634-04-4	
Naphthalene	<12.6	ug/L	42.0	12.6	25		10/17/18 19:00	91-20-3	
Toluene	70.9	ug/L	40.8	12.2	25		10/17/18 19:00	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		10/17/18 19:00	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		10/17/18 19:00	108-67-8	
m&p-Xylene	42.2J	ug/L	54.5	16.4	25		10/17/18 19:00	179601-23-1	
o-Xylene	<7.9	ug/L	26.2	7.9	25		10/17/18 19:00	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		25		10/17/18 19:00	98-08-8	

Sample: DUP-4 **Lab ID: 40177656022** Collected: 10/12/18 00:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3210	ug/L	40.8	12.2	40		10/18/18 09:40	71-43-2	
Ethylbenzene	303	ug/L	44.0	13.2	40		10/18/18 09:40	100-41-4	
Methyl-tert-butyl ether	134	ug/L	42.8	12.8	40		10/18/18 09:40	1634-04-4	
Naphthalene	135	ug/L	67.2	20.2	40		10/18/18 09:40	91-20-3	
Toluene	170	ug/L	65.2	19.6	40		10/18/18 09:40	108-88-3	
1,2,4-Trimethylbenzene	114	ug/L	45.6	13.7	40		10/18/18 09:40	95-63-6	
1,3,5-Trimethylbenzene	47.3	ug/L	43.6	13.1	40		10/18/18 09:40	108-67-8	
m&p-Xylene	296	ug/L	87.2	26.2	40		10/18/18 09:40	179601-23-1	
o-Xylene	30.4J	ug/L	42.0	12.6	40		10/18/18 09:40	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		40		10/18/18 09:40	98-08-8	

Sample: TRIP BLANK **Lab ID: 40177656023** Collected: 10/12/18 00:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/17/18 15:36	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/17/18 15:36	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/17/18 15:36	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/17/18 15:36	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/17/18 15:36	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/17/18 15:36	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/17/18 15:36	108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		10/17/18 15:36	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		10/17/18 15:36	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Sample: TRIP BLANK **Lab ID: 40177656023** Collected: 10/12/18 00:00 Received: 10/13/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/17/18 15:36	98-08-8	

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL
Pace Project No.: 40177656

QC Batch: 303138 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40177656001, 40177656002, 40177656003, 40177656004, 40177656005, 40177656006, 40177656007, 40177656008, 40177656009, 40177656010, 40177656011, 40177656012, 40177656013

METHOD BLANK: 1770759 Matrix: Water
Associated Lab Samples: 40177656001, 40177656002, 40177656003, 40177656004, 40177656005, 40177656006, 40177656007, 40177656008, 40177656009, 40177656010, 40177656011, 40177656012, 40177656013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/15/18 09:33	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/15/18 09:33	
Benzene	ug/L	<0.31	1.0	10/15/18 09:33	
Ethylbenzene	ug/L	<0.33	1.1	10/15/18 09:33	
m&p-Xylene	ug/L	<0.66	2.2	10/15/18 09:33	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/15/18 09:33	
Naphthalene	ug/L	<0.51	1.7	10/15/18 09:33	
o-Xylene	ug/L	<0.32	1.0	10/15/18 09:33	
Toluene	ug/L	<0.49	1.6	10/15/18 09:33	
a,a,a-Trifluorotoluene (S)	%	99	80-120	10/15/18 09:33	

LABORATORY CONTROL SAMPLE & LCSD: 1770760 1770761

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.3	17.7	92	89	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	17.7	17.1	89	85	80-120	4	20	
Benzene	ug/L	20	20.2	19.7	101	98	80-120	2	20	
Ethylbenzene	ug/L	20	19.9	19.2	99	96	80-120	3	20	
m&p-Xylene	ug/L	40	38.6	37.4	96	94	80-120	3	20	
Methyl-tert-butyl ether	ug/L	20	19.9	19.6	100	98	80-120	2	20	
Naphthalene	ug/L	20	19.2	18.7	96	94	80-120	2	20	
o-Xylene	ug/L	20	19.7	19.1	98	96	80-120	3	20	
Toluene	ug/L	20	20.4	19.8	102	99	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				100	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1771233 1771234

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40177600006 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	19.3	19.5	96	97	51-160	1	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	18.7	18.9	94	95	56-146	1	20
Benzene	ug/L	<0.31	20	20	21.6	21.6	108	108	71-137	0	20
Ethylbenzene	ug/L	<0.33	20	20	21.2	21.2	106	106	71-141	0	20
m&p-Xylene	ug/L	<0.66	40	40	41.3	41.5	103	104	66-141	1	20
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.6	20.6	103	103	80-120	0	20
Naphthalene	ug/L	<0.51	20	20	19.3	19.5	96	97	67-138	1	20
o-Xylene	ug/L	<0.32	20	20	20.7	20.7	103	104	75-133	0	20

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Parameter	Units	4017760006		1771233		1771234		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Toluene	ug/L	<0.49	20	20	21.9	21.7	110	109	76-134	1	20			
a,a,a-Trifluorotoluene (S)	%						101	99	80-120					

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

QC Batch:	303432	Analysis Method:	WI MOD GRO
QC Batch Method:	WI MOD GRO	Analysis Description:	WIGRO GCV Water
Associated Lab Samples:	40177656014, 40177656015, 40177656016, 40177656017, 40177656018, 40177656019, 40177656020, 40177656021, 40177656022, 40177656023		

METHOD BLANK:	1772316	Matrix:	Water
Associated Lab Samples:	40177656014, 40177656015, 40177656016, 40177656017, 40177656018, 40177656019, 40177656020, 40177656021, 40177656022, 40177656023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/17/18 09:12	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/17/18 09:12	
Benzene	ug/L	<0.31	1.0	10/17/18 09:12	
Ethylbenzene	ug/L	<0.33	1.1	10/17/18 09:12	
m&p-Xylene	ug/L	<0.66	2.2	10/17/18 09:12	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/17/18 09:12	
Naphthalene	ug/L	<0.51	1.7	10/17/18 09:12	
o-Xylene	ug/L	<0.32	1.0	10/17/18 09:12	
Toluene	ug/L	<0.49	1.6	10/17/18 09:12	
a,a,a-Trifluorotoluene (S)	%	101	80-120	10/17/18 09:12	

Parameter	Units	1772317		1772318		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
1,2,4-Trimethylbenzene	ug/L	20	21.1	21.6	105	108	80-120	2	20
1,3,5-Trimethylbenzene	ug/L	20	20.3	20.8	102	104	80-120	3	20
Benzene	ug/L	20	20.6	20.7	103	104	80-120	1	20
Ethylbenzene	ug/L	20	20.8	21.1	104	106	80-120	2	20
m&p-Xylene	ug/L	40	41.5	42.1	104	105	80-120	2	20
Methyl-tert-butyl ether	ug/L	20	20.2	20.3	101	102	80-120	1	20
Naphthalene	ug/L	20	19.5	20.5	98	103	80-120	5	20
o-Xylene	ug/L	20	21.0	21.3	105	107	80-120	2	20
Toluene	ug/L	20	20.8	21.1	104	105	80-120	1	20
a,a,a-Trifluorotoluene (S)	%				100	100	80-120		

Parameter	Units	1772639		1772640		% Rec Limits	RPD	Max RPD	Qual		
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	20.5	21.9	103	109	51-160	6	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	19.8	21.2	99	106	56-146	6	20
Benzene	ug/L	2.0	20	20	22.4	23.5	102	107	71-137	5	20
Ethylbenzene	ug/L	<0.33	20	20	20.7	21.9	103	109	71-141	6	20
m&p-Xylene	ug/L	<0.66	40	40	41.1	43.5	103	109	66-141	6	20
Methyl-tert-butyl ether	ug/L	11.5	20	20	30.1	31.2	93	99	80-120	4	20
Naphthalene	ug/L	<0.51	20	20	18.7	20.1	93	100	67-138	7	20
o-Xylene	ug/L	<0.32	20	20	20.6	21.9	103	109	75-133	6	20

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QUALITY CONTROL DATA

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Parameter	Units	40177676002		1772639		1772640		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Toluene	ug/L	<0.49	20	20	20.7	21.9	103	110	76-134	6	20			
a,a,a-Trifluorotoluene (S)	%						100	99	80-120					

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QUALIFIERS

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISUP181 SUPERIOR TERMINAL

Pace Project No.: 40177656

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177656001	MWM-2D	WI MOD GRO	303138		
40177656002	MW-30DD	WI MOD GRO	303138		
40177656003	MW-30DDD	WI MOD GRO	303138		
40177656004	MWT-2S	WI MOD GRO	303138		
40177656005	MW-37DDD	WI MOD GRO	303138		
40177656006	MW-41D	WI MOD GRO	303138		
40177656007	MWRR-1DR	WI MOD GRO	303138		
40177656008	MWBD-1D	WI MOD GRO	303138		
40177656009	MW-45D	WI MOD GRO	303138		
40177656010	MW-30S	WI MOD GRO	303138		
40177656011	MWM-10D	WI MOD GRO	303138		
40177656012	MW-37DD	WI MOD GRO	303138		
40177656013	MW-36D	WI MOD GRO	303138		
40177656014	MW-30D	WI MOD GRO	303432		
40177656015	MWM-7D	WI MOD GRO	303432		
40177656016	MWM-9RD	WI MOD GRO	303432		
40177656017	MW-37D	WI MOD GRO	303432		
40177656018	MWT-2D	WI MOD GRO	303432		
40177656019	DUP-1	WI MOD GRO	303432		
40177656020	DUP-2	WI MOD GRO	303432		
40177656021	DUP-3	WI MOD GRO	303432		
40177656022	DUP-4	WI MOD GRO	303432		
40177656023	TRIP BLANK	WI MOD GRO	303432		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40177656

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	55m
Company: Antea Group	Report To: Jonathan Zimdars	Attention: Jonathan Zimdars	Page : 1 of 2
Address: 5910 River Creek Pkwy	Copy To: Todd Kramm <i>Layne Kortbein</i>	Company Name: Antea Group	
Suite 100, Shoreview, MN 55126	<i>Layne.Kortbein@anteagroup.com</i>	Address: 5910 Rice Creek Pkwy, Shoreview, MN 55126	Regulatory Agency
Email: Todd.kramm@anteagroup.com <i>See B</i>	Purchase Order #:	Pace Quote: N/A	
Phone: 651-587-9658 Fax	Project Name: Superior Terminal	Pace Project Manager: Chris Hyska - Pace-GB	State / Location
Requested Due Date:	Project #: WISUP181	Pace Profile #: 4192	WI

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives										Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test			P/VOOC-Naph
				DATE	TIME	DATE	TIME														
1	MWM-2D	001			10/10	16:30	3											X			
2	MW-30DD	002			10/10	18:00	3											X			
3	MW-30DDD	003			10/10	18:45	3											X			
4	MWT-2S	004			10/10	18:15	3											X			
5	MW-37DDD	005			10/11	16:40	3											X			
6	MW-41D	006			10/11	10:30	3											X			
7	MWRR-1DR	007			10/11	14:40	3											X			
8	MWBD-1D	008			10/11	14:30	3											X			
9	MW-45D	009			10/11	12:00	3											X			
10	MW-30S	010			10/11	15:30	3											X			
11	MWM-10D	011			10/11	15:35	3											X			
12	MW-37DD	012			10/11	17:05	3											X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Send to Pace Green Bay - Overnight shipping	<i>Layne Kortbein</i>	10/12	12:35	<i>JL Duff</i> PACE	10/12/18	12:35	0.7 Y N Y
	<i>Bauer</i>	10/12/18					10/12/18
	Fedex	10/13/18	5:05	<i>[Signature]</i> pace	10/13/18	0905	RZ Y Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Layne Kortbein</i>					
SIGNATURE of SAMPLER:	<i>Layne Kortbein</i>	DATE Signed:	10/12/18			



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

70177656

Section A Required Client Information: Company: Antea Group, Address: 5910 River Creek Pkwy... Section B Required Project Information: Report To: Jonathan Zimdars, Copy To: Layne Kortbein... Section C Invoice Information: Attention: Jonathan Zimdars, Company Name: Antea Group... Page: 2 of 2

Main data table with columns: ITEM #, SAMPLE ID, MATRIX CODE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), Residual Chlorine (Y/N).

Summary table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS.

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Layne Kortbein, SIGNATURE of SAMPLER: Layne Kortbein, DATE Signed: 10/12/18.

Sample Preservation Receipt Form

Client Name: Antea Project # _____

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: _____

Lab Std #ID of preservation (if pH adjusted): _____

Initial when completed: _____

Date/Time: _____

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC
001																3															2.5 / 5 / 10
002																3															2.5 / 5 / 10
003																3															2.5 / 5 / 10
004																3															2.5 / 5 / 10
005																3															2.5 / 5 / 10
006																3															2.5 / 5 / 10
007																3															2.5 / 5 / 10
008																3															2.5 / 5 / 10
009																3															2.5 / 5 / 10
010																3															2.5 / 5 / 10
011																3															2.5 / 5 / 10
012																3															2.5 / 5 / 10
013																3															2.5 / 5 / 10
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017																3															2.5 / 5 / 10
018																3															2.5 / 5 / 10
019																3															2.5 / 5 / 10
020																3															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Sample Preservation Receipt Form

Client Name: Antea

Project #: 40177654

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH 52	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH 52	pH after adjusted	Volume (mL)									
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN								
021																		3																							2.5 / 5 / 10
022																		3																							2.5 / 5 / 10
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Sample Condition Upon Receipt Form (SCUR)

Client Name: Antea

Project # _____

WO#: 40177656

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 6779 8896 7093

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.2 ICorr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
Date: 10/13/18
Initials: _____

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>✓</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>907</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 10/13/18

*2018 July-Dec. Progress Report Former
Amoco Terminal
2904 Winter Street, Superior, Wisconsin
Antea Group Project No. WISUP191*



Appendix B

Boring Logs



5910 Rice Creek Parkway, Suite 100
St. Paul, Minnesota 55126

ENVIRONMENTAL BORING / WELL LOG

BORING / WELL ID: **MWRR-1DR**
TOTAL DEPTH: **54'**
UNIQUE WELL NUMBER: **VR359**

PROJECT INFORMATION

Project: **Superior Terminal**
Site Location: **2904 Winter Street Superior, WI**
Job No.: **WISUP181**
Logged By: **Layne Kortbein**
Weather: **Partly cloudy**
Date Completed: **7/20/18**
Date Developed: **7/25/18**
Water Level During Drilling: **N/A**
Water Level After Development: **10.65'**

DRILLING INFORMATION

Drilling Co.: **Cascade Environmental**
Drill Crew Chief: **Randy Radke**
Rig Type: **Board Longyear 200c Mini Sonic**
Method of Drilling: **Rotosonic**
Soil Sampling Method: **5' Sample Bags**
Surface Elevation (feet): **618.40**
Top of Casing Elevation (feet): **620.68**
Field Screening Instrument: **MiniRae 3000**

DEPTH	LITHOLOGY	DESCRIPTION	USCS	LAB SAMP.	ppm	WELL DIAGRAM	WELL MATERIALS
0		(0.0,0.5) Fill: Gravel with grass and topsoil, with red clay.	CL				Above grade completion, 2.28' stickup
		(0.5,12.0) CL: Clay, red-brown with black gravel fill, stiff.					
5					10.7		3/8" Bentonite Chip surface seal 0' to 5'
10					11.0		2-inch diameter sch 40 PVC casing
		(12.0,12.5) Rock obstruction.					
		(12.5,14.5) GC: Gravel fill with red clay, gravel 1-5 cm, rounded to subrounded.	GC				
15		(14.5,15.0) CL: Clay, red-brown, very stiff.	CL				

Comments: Limited recovery from 0-15 ft due to rock obstruction.
Water level could not be observed during drilling due to city water drilling fluid.



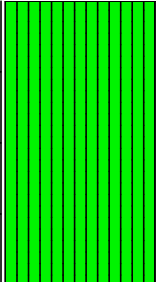
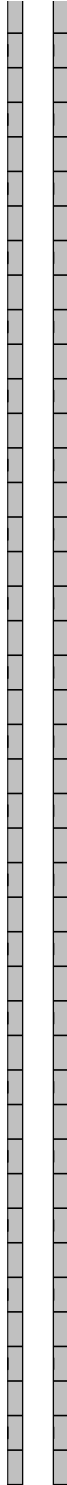
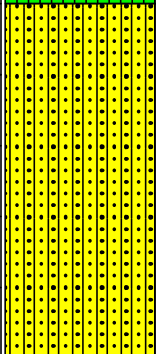
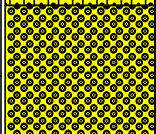
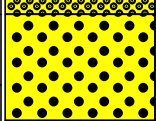
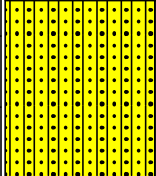
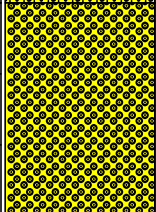
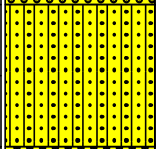

5910 Rice Creek Parkway, Suite 100
St. Paul, Minnesota 55126

ENVIRONMENTAL BORING / WELL LOG

BORING / WELL ID: **MWRR-1DR**

PROJECT: **Superior Terminal**

UNIQUE WELL NUMBER: **VR359**

DEPTH	LITHOLOGY	DESCRIPTION	USCS	LAB SAMP.	ppm	WELL DIAGRAM	WELL MATERIALS
		(15.0,19.0) ML: Silt, with fine-grained sand, marbled layers with red, orange, and black mottling, medium to orange brown.	ML		13.9		Aquaguard bentonite slurry annular seal 5' to 43'
					14.6		
20		(19.0,24.0) SM: Sand, fine-grained with silt, poorly-graded, medium brown with red and black grains, some orange and black mottling.	SM		8.6		
					16.9		
25		(24.0,26.0) SP: Sand, medium-grained, poorly-graded, medium brown with orange and some black mottling, with black and red grains.	SP		33.7		
		(26.0,27.5) SW: Sand, fine to medium-grained, well-graded, medium brown with red and black grains, with orange and trace black mottling.	SW				
		(27.5,30.0) SM: Sand, fine-grained, with silt, poorly-graded, medium brown with black and orange grains.	SM		89.9		
30		(30.0,33.0) SP: Sand, medium-grained, poorly-graded, medium brown with red and black grains, with black mottling.	SP		49.7		
					13.1		
		(33.0,35.0) SM: Sand, fine-grained, with silt, medium brown with black grains.	SM				
35		(35.0,36.0) SP: Sand, medium-grained, with black and orange grains, medium brown.	SP		19.0		

Comments: Limited recovery from 0-15 ft due to rock obstruction.

Water level could not be observed during drilling due to city water drilling fluid.



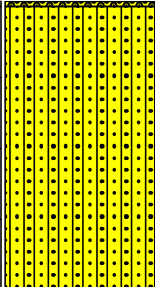
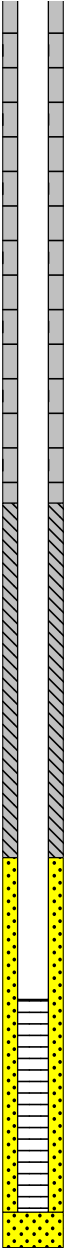
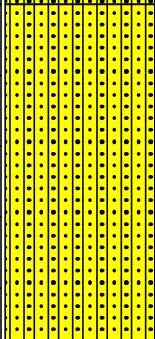
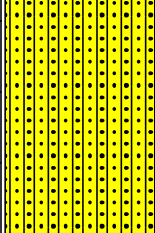
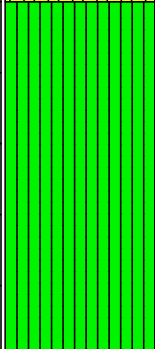

5910 Rice Creek Parkway, Suite 100
St. Paul, Minnesota 55126

ENVIRONMENTAL BORING / WELL LOG

BORING / WELL ID: **MWRR-1DR**

PROJECT: **Superior Terminal**

UNIQUE WELL NUMBER: **VR359**

DEPTH	LITHOLOGY	DESCRIPTION	USCS	LAB SAMP.	ppm	WELL DIAGRAM	WELL MATERIALS
		(36.0,40.0) SM: Sand, fine-grained, with silt, medium brown with black grains, orange and black mottling.	SM		61.8		
40		(40.0,48.0) SM: Sand, fine-grained, with silt, grey-brown with black grains, black mottling at 45'.	SM		83.0		3/8" Bentonite Chips 43' to 48'
45					53.7		
					109.5		Quartz filtration media filter pack 48' to 54'
50		(48.0,53.0) ML: Silt, with fine-grained sand, olive brown with red and orange mottling.	ML		32.2		2-inch diameter 10-slot sch 40 PVC screen 50' to 53'
					54.9		
					13.0		Total depth of well 53'
					10.9		

Comments: Limited recovery from 0-15 ft due to rock obstruction.

Water level could not be observed during drilling due to city water drilling fluid.

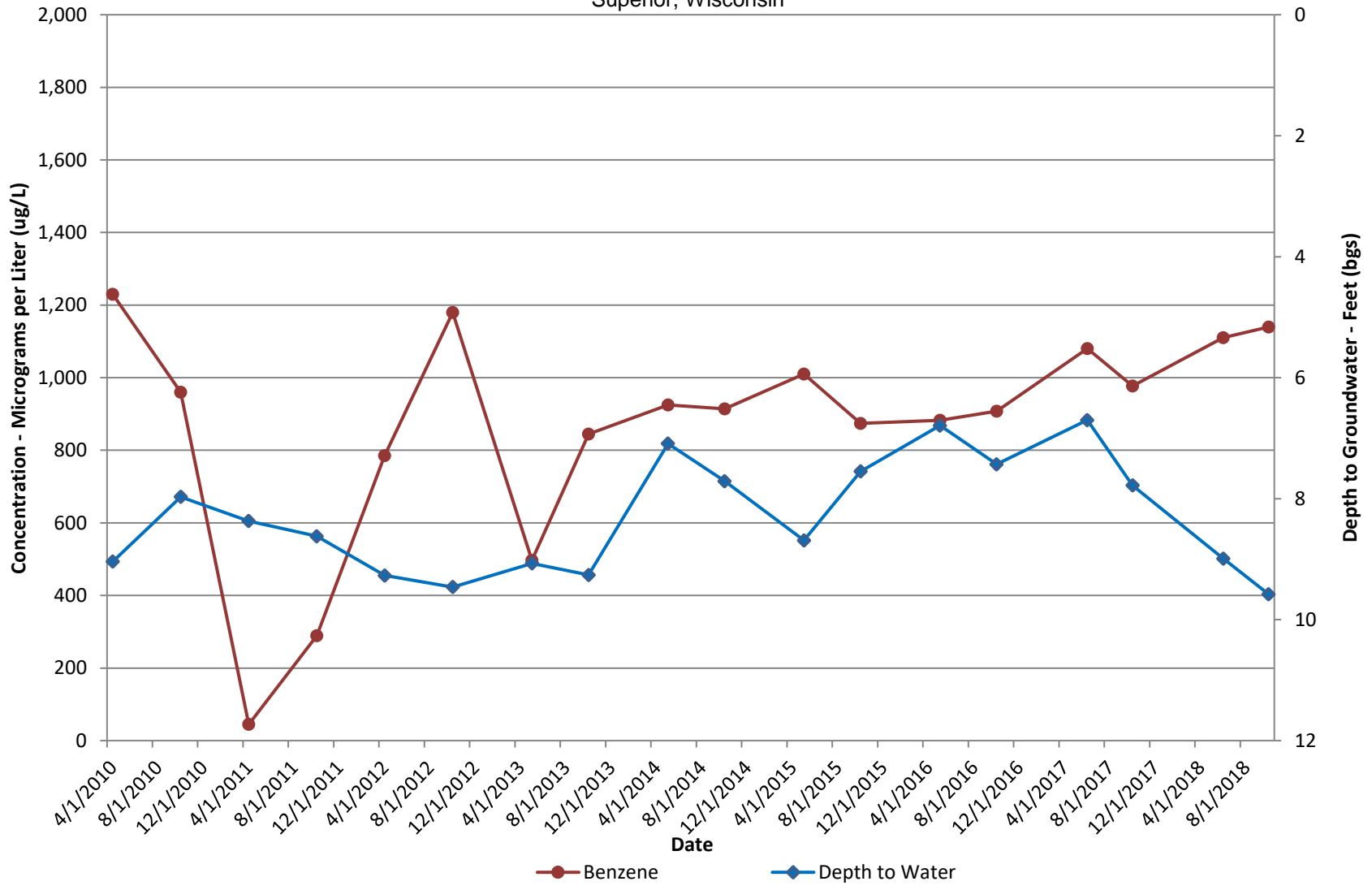
*2018 July-Dec. Progress Report
Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin
Antea Group Project No. WISUP191*



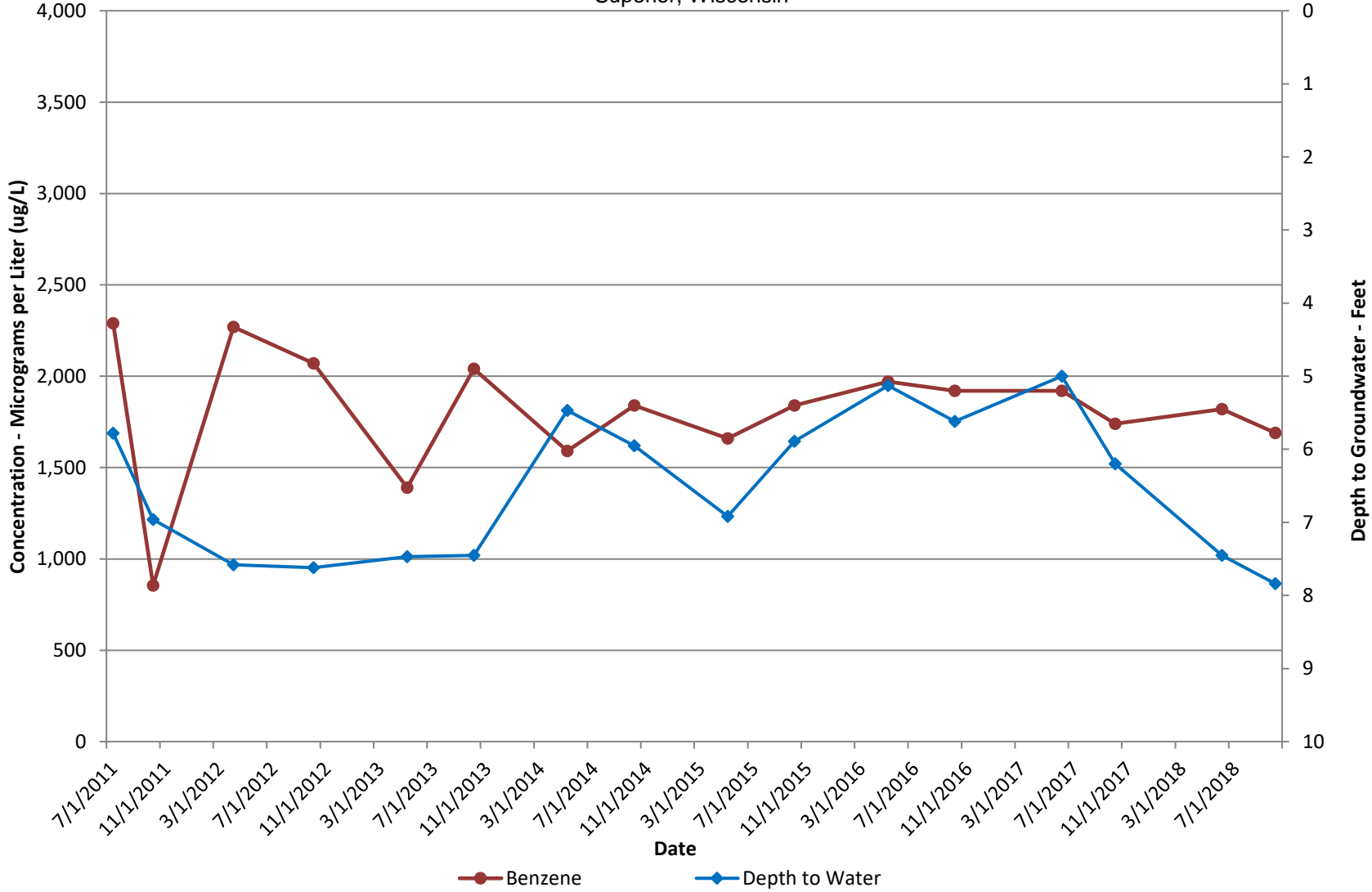
Appendix C

Groundwater BTEX Hydrographs

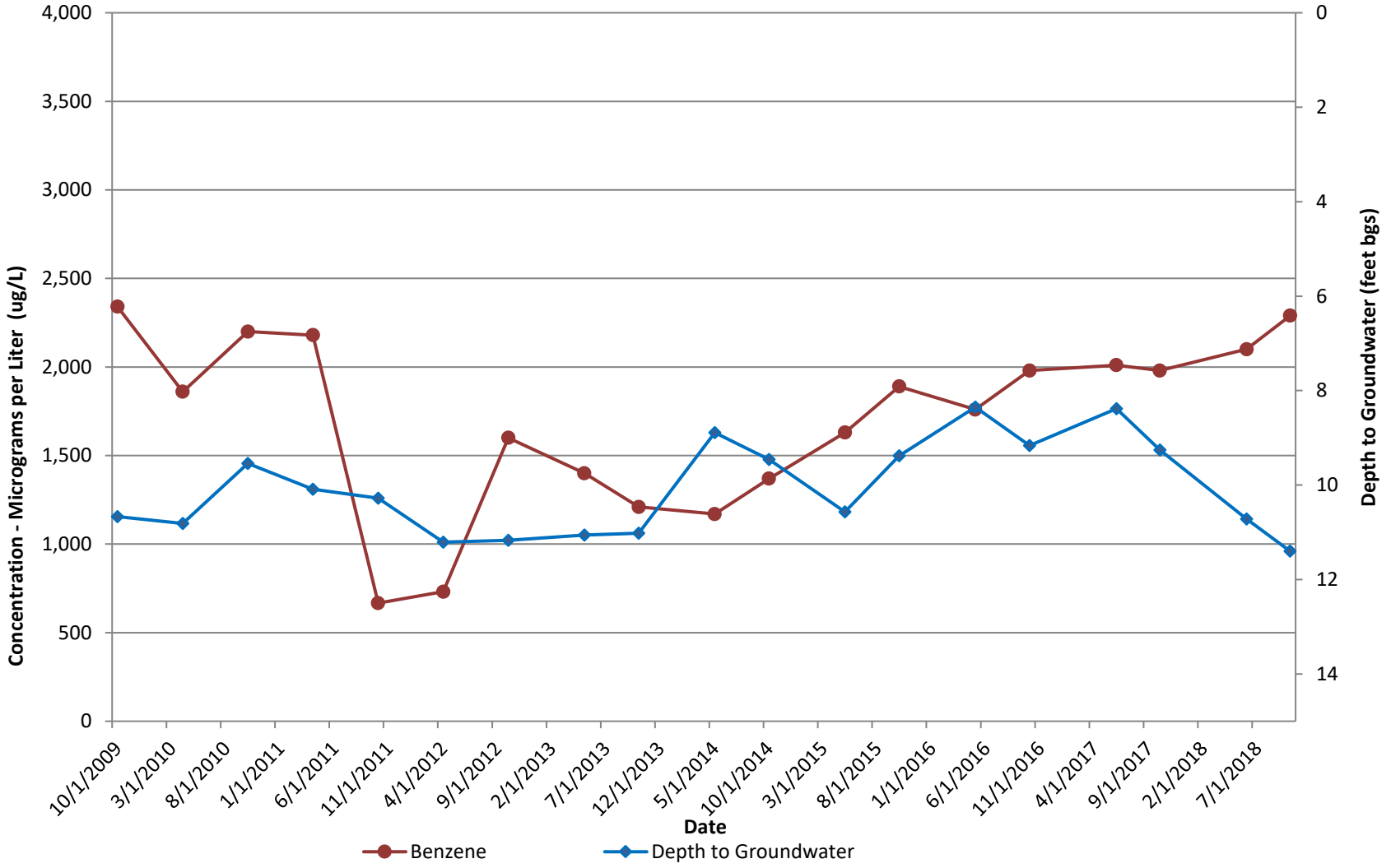
MWM-10D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



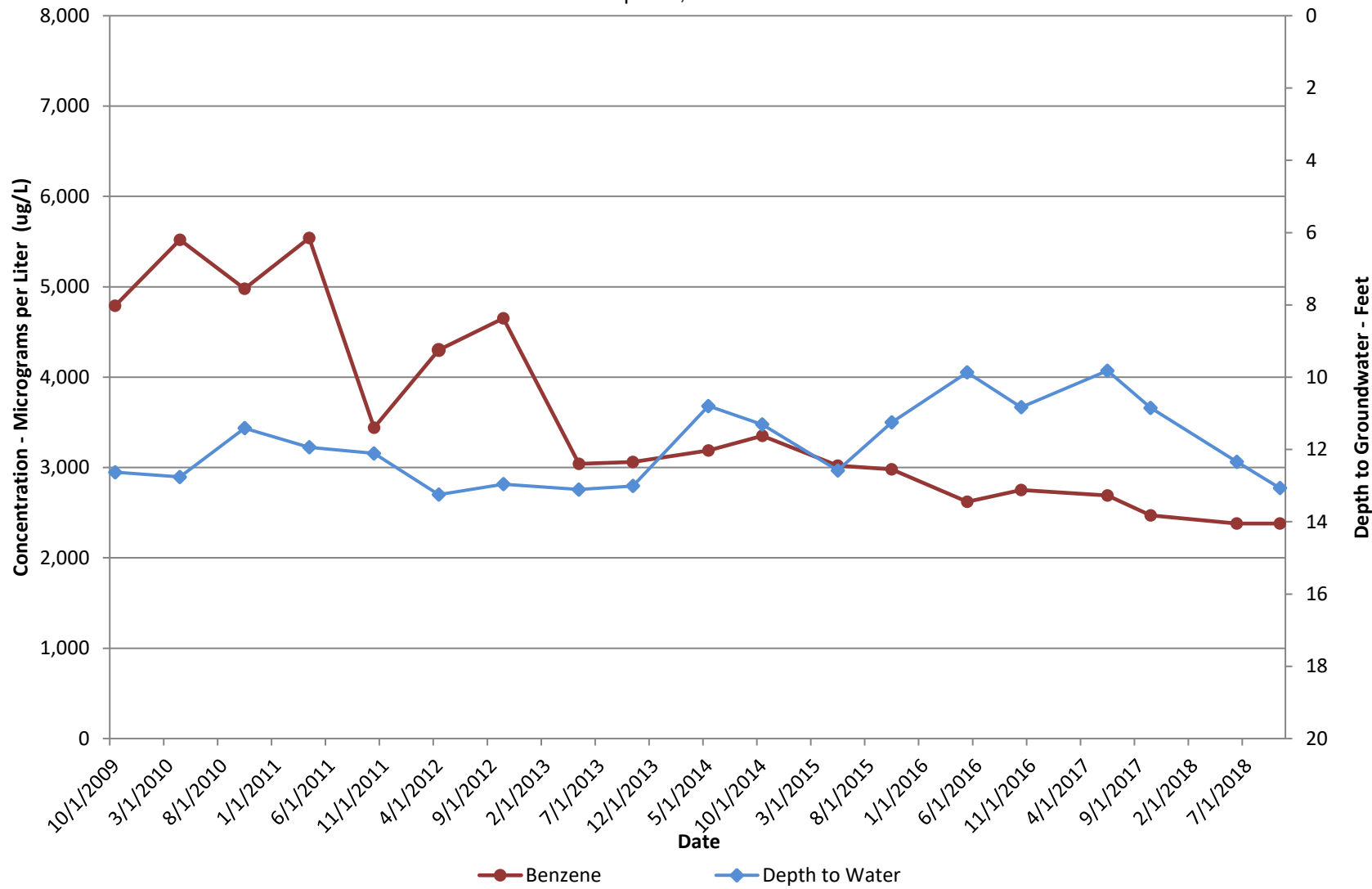
MW-36D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



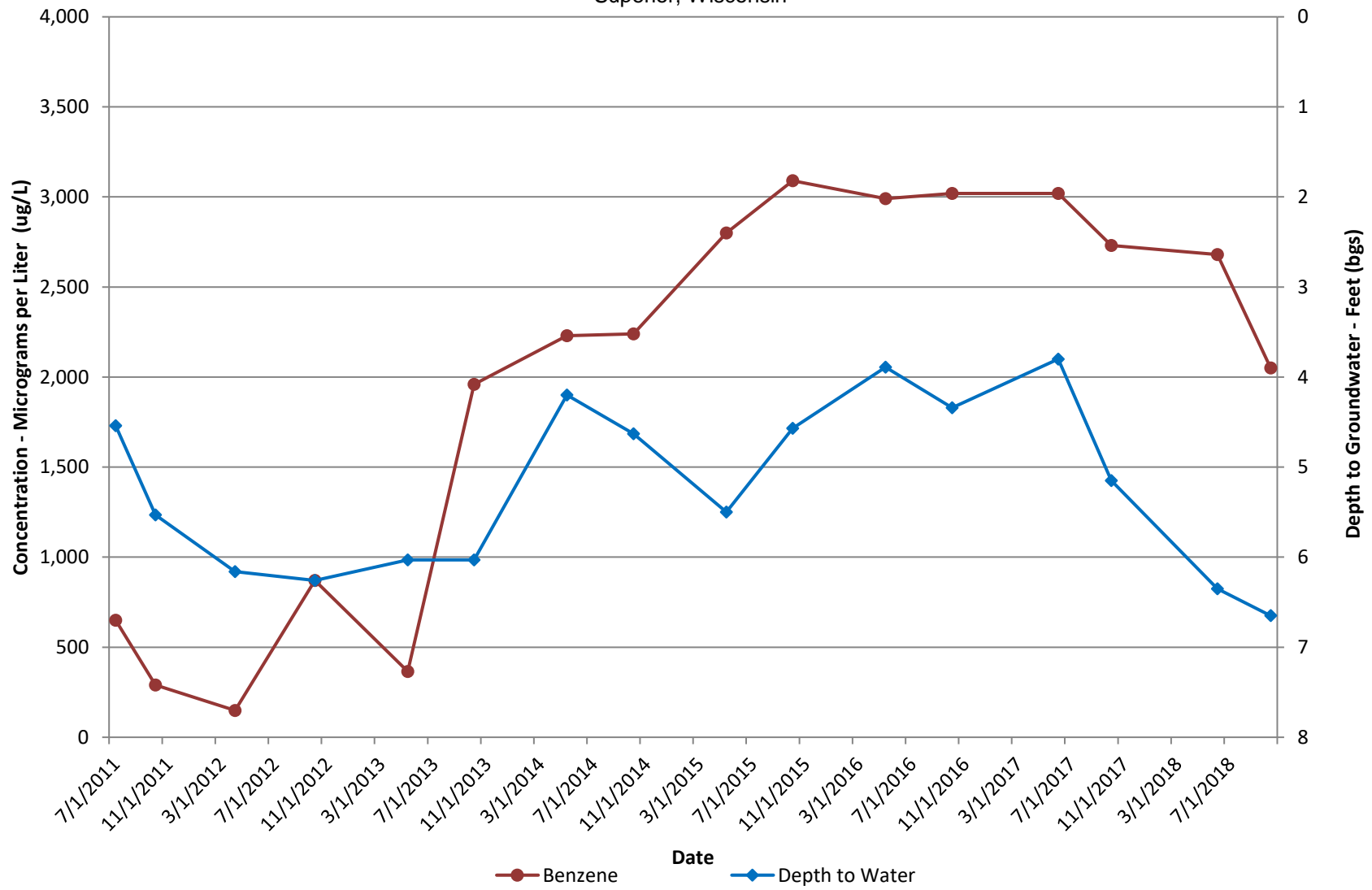
MWM-7D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



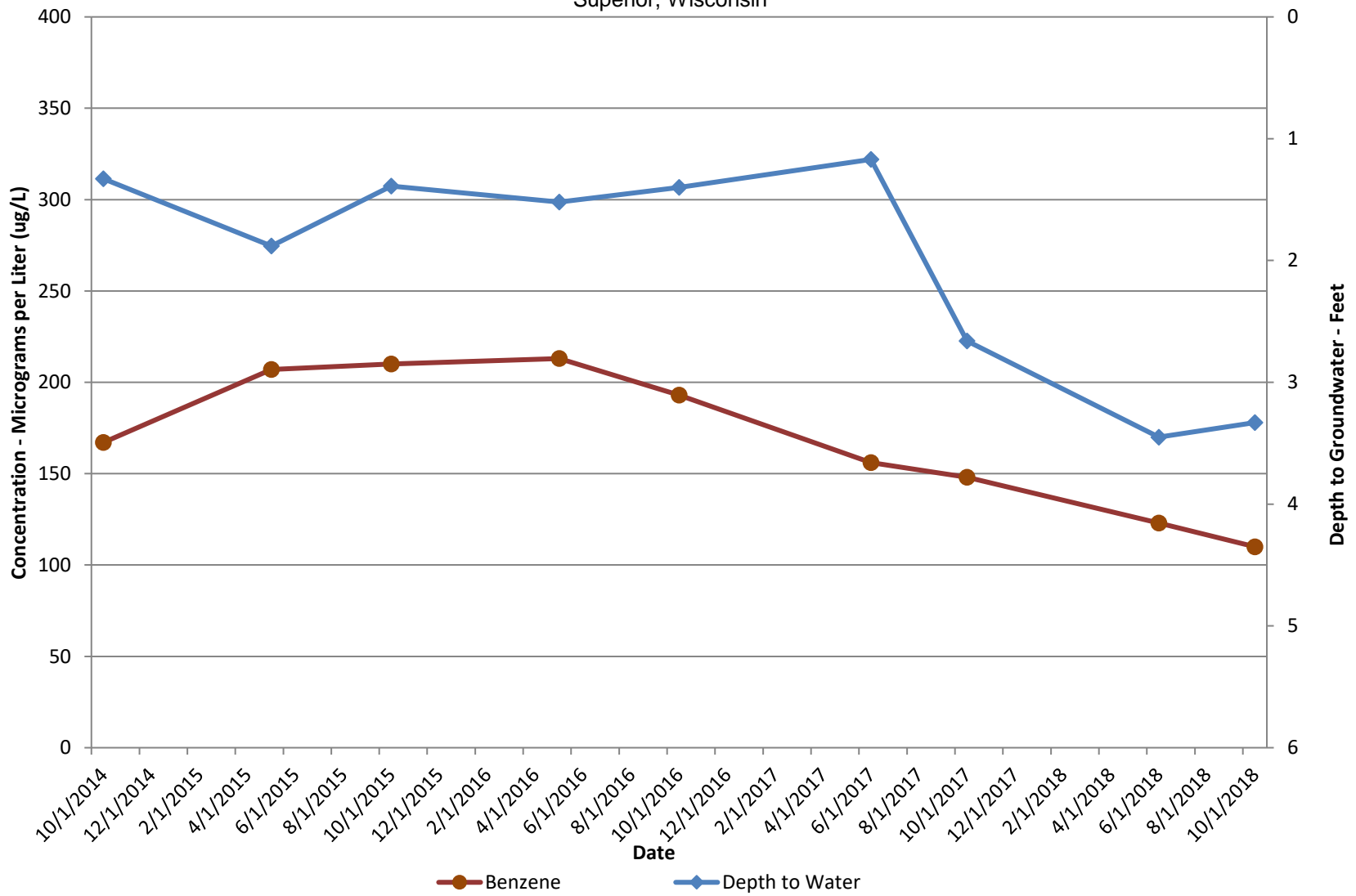
MWM-9RD
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



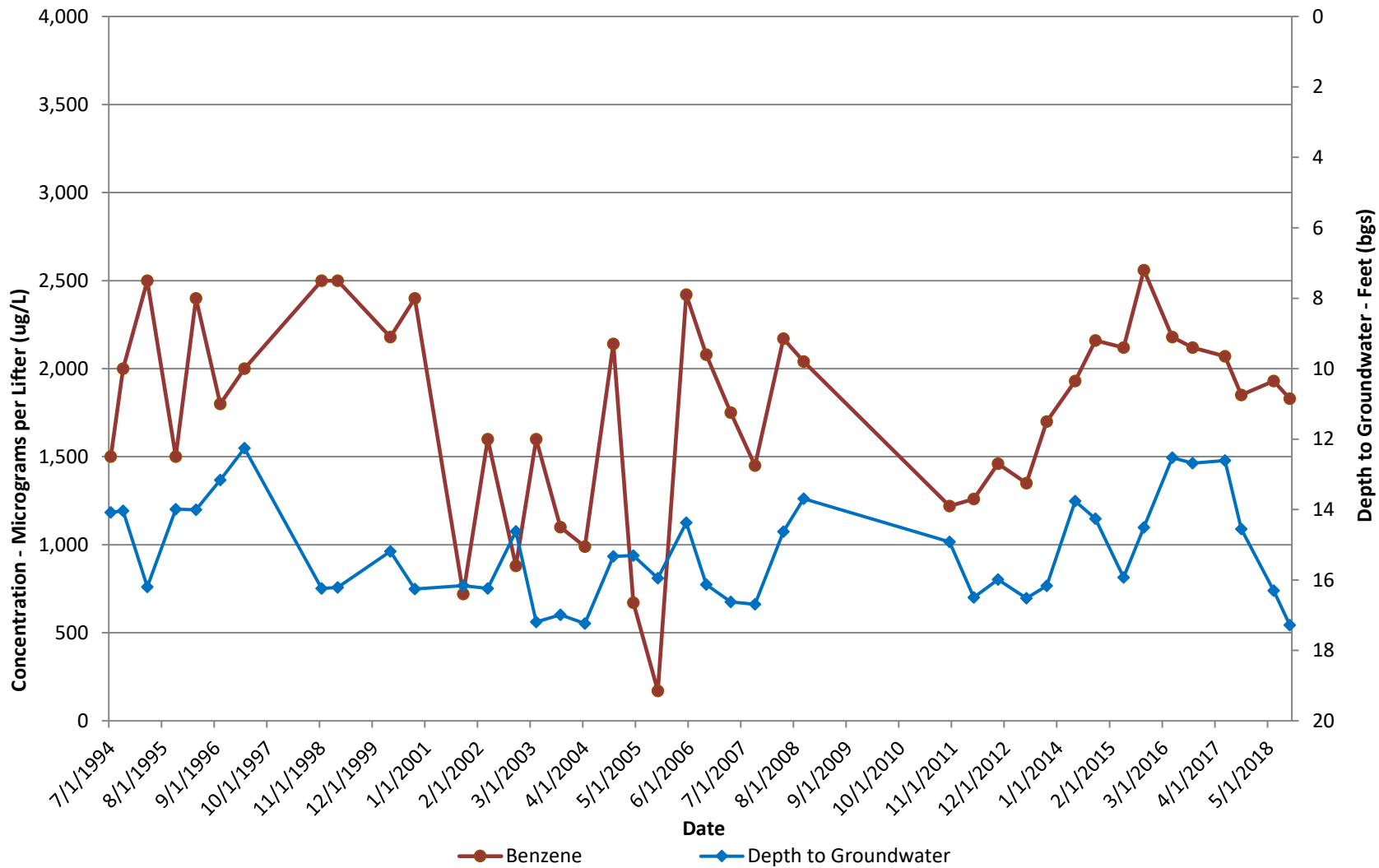
MW-37D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



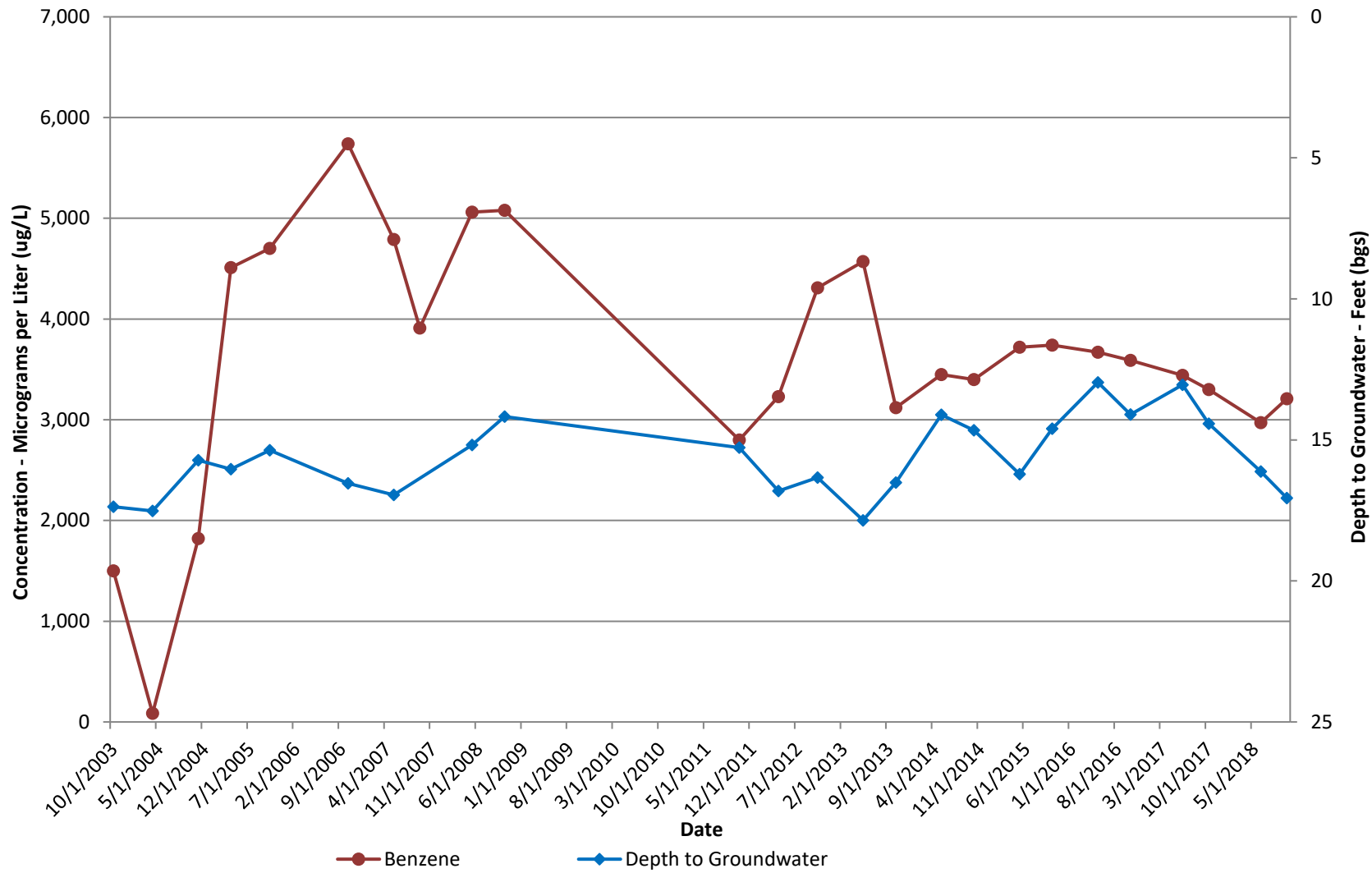
MWBD-1D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



MW-30D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



MWT-2D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin

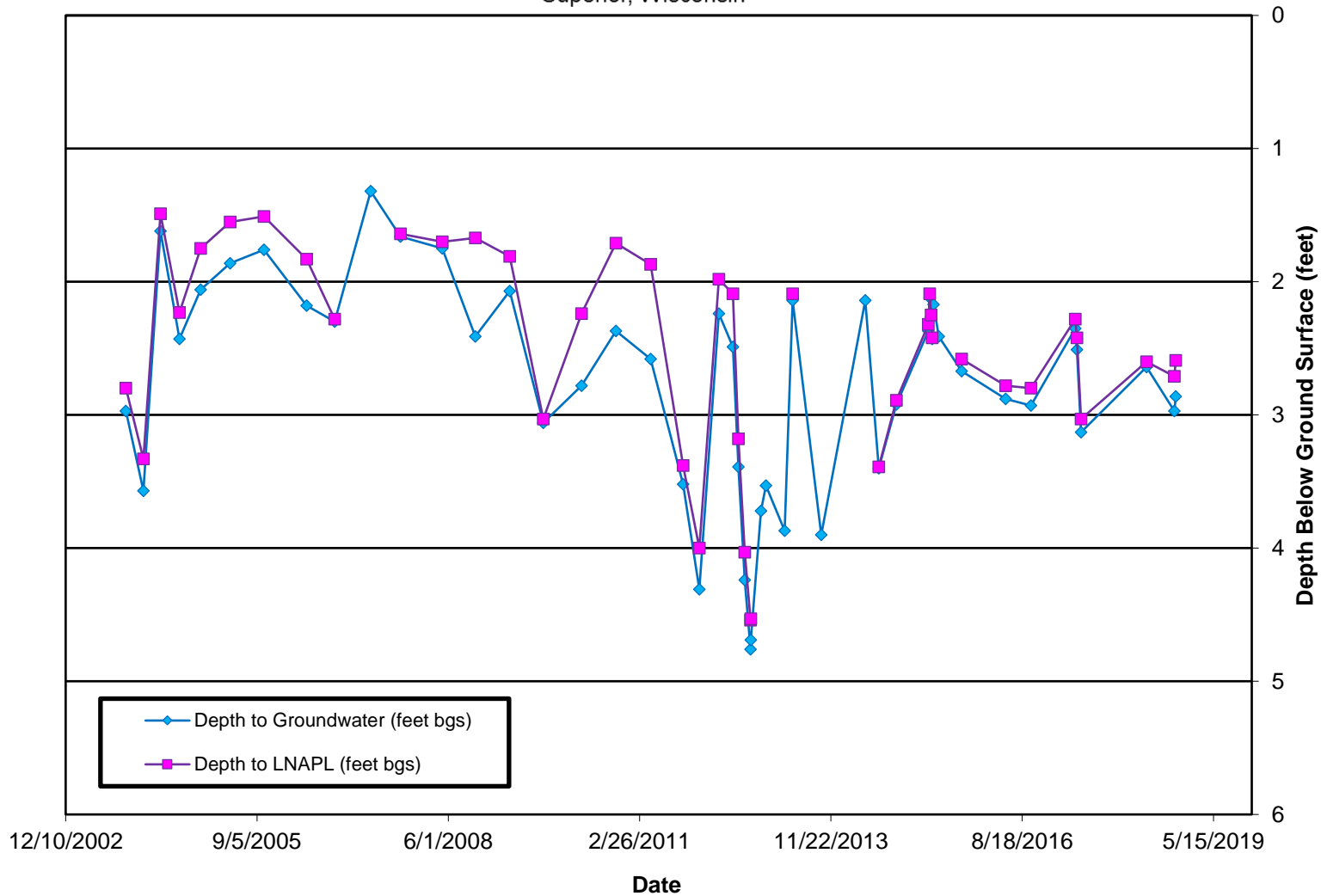


Appendix D

LNAPL and Groundwater Hydrographs

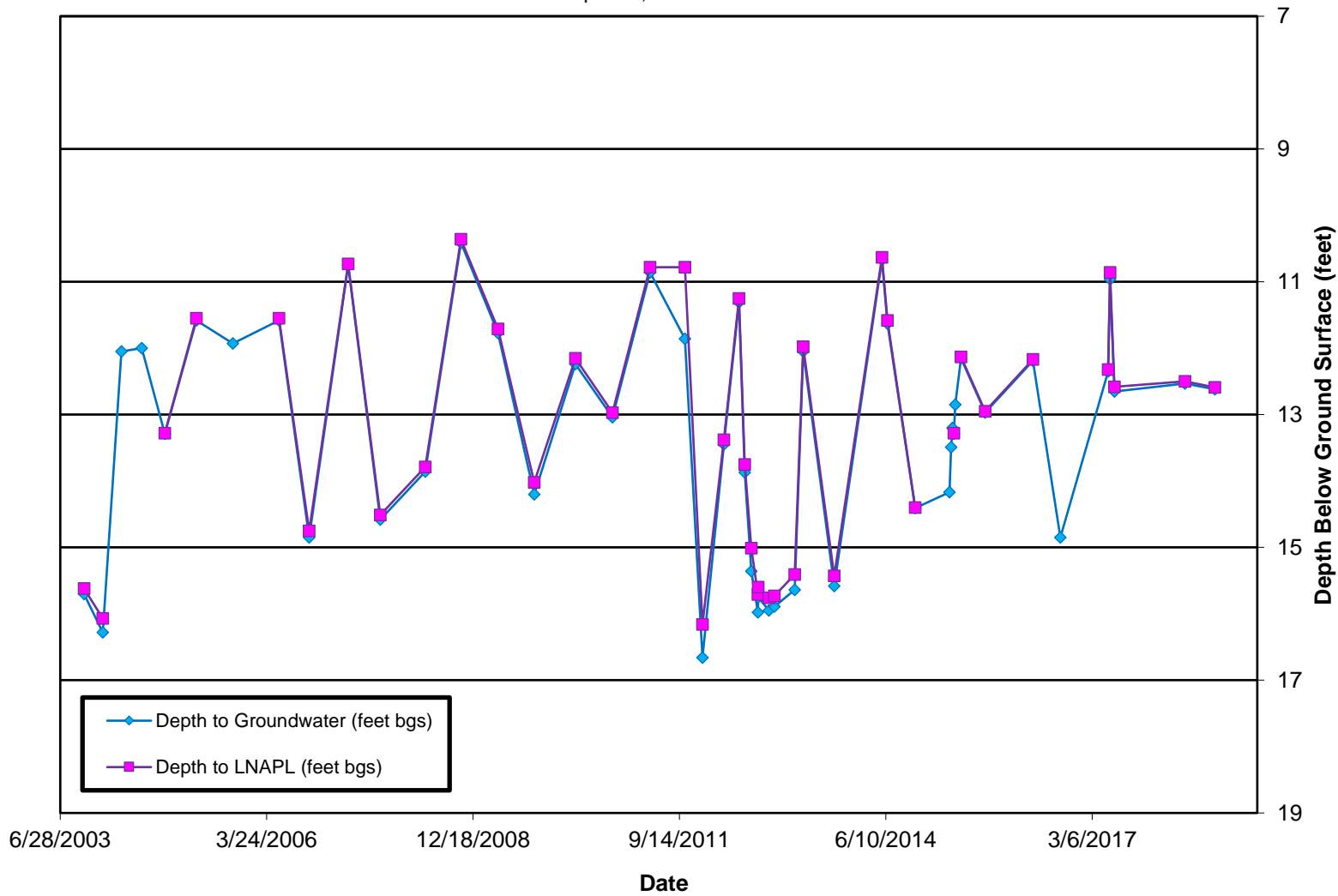
MWOW-1 (AOC 13) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin



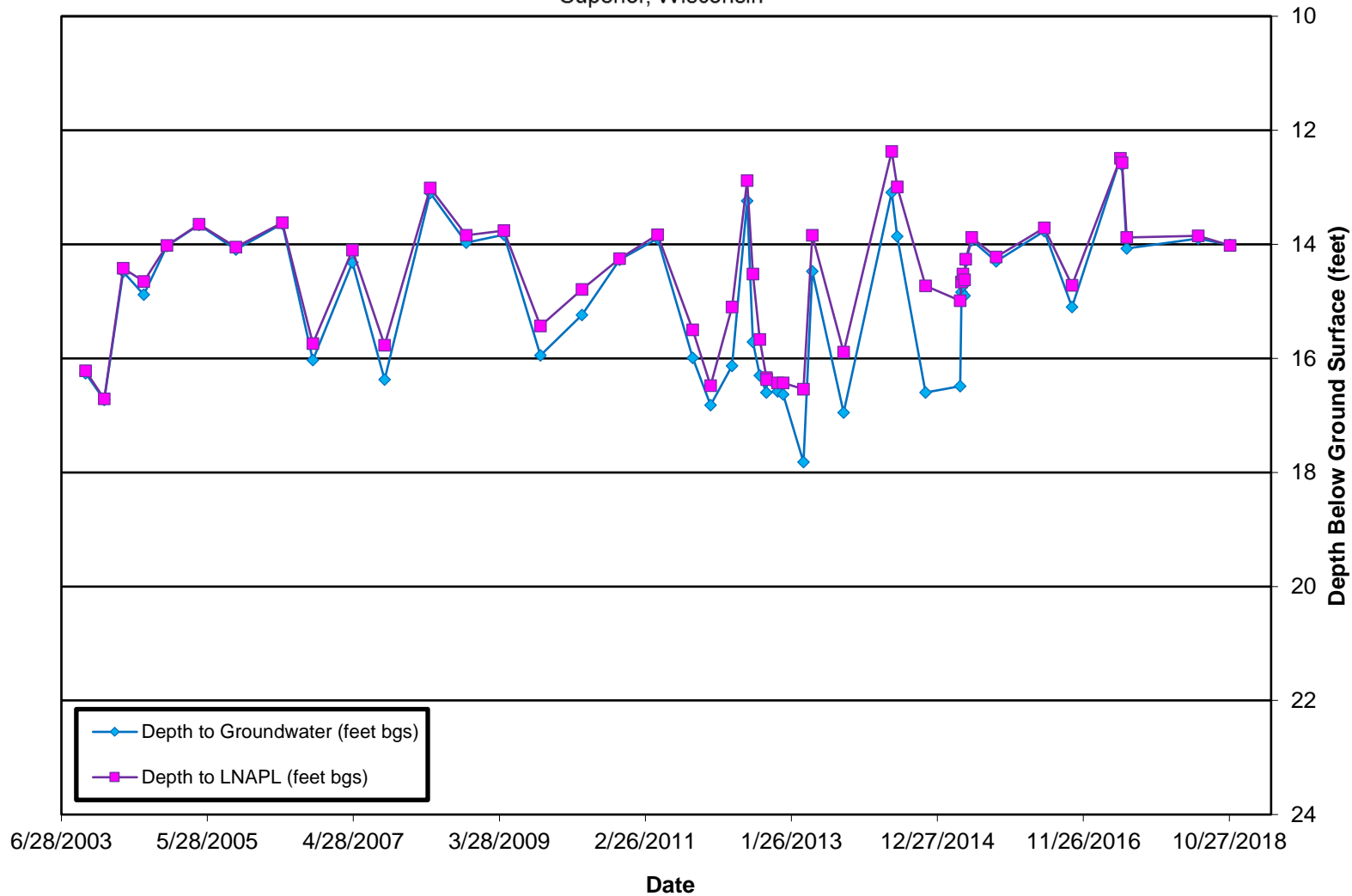
MWOW-5 (AOC 12) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

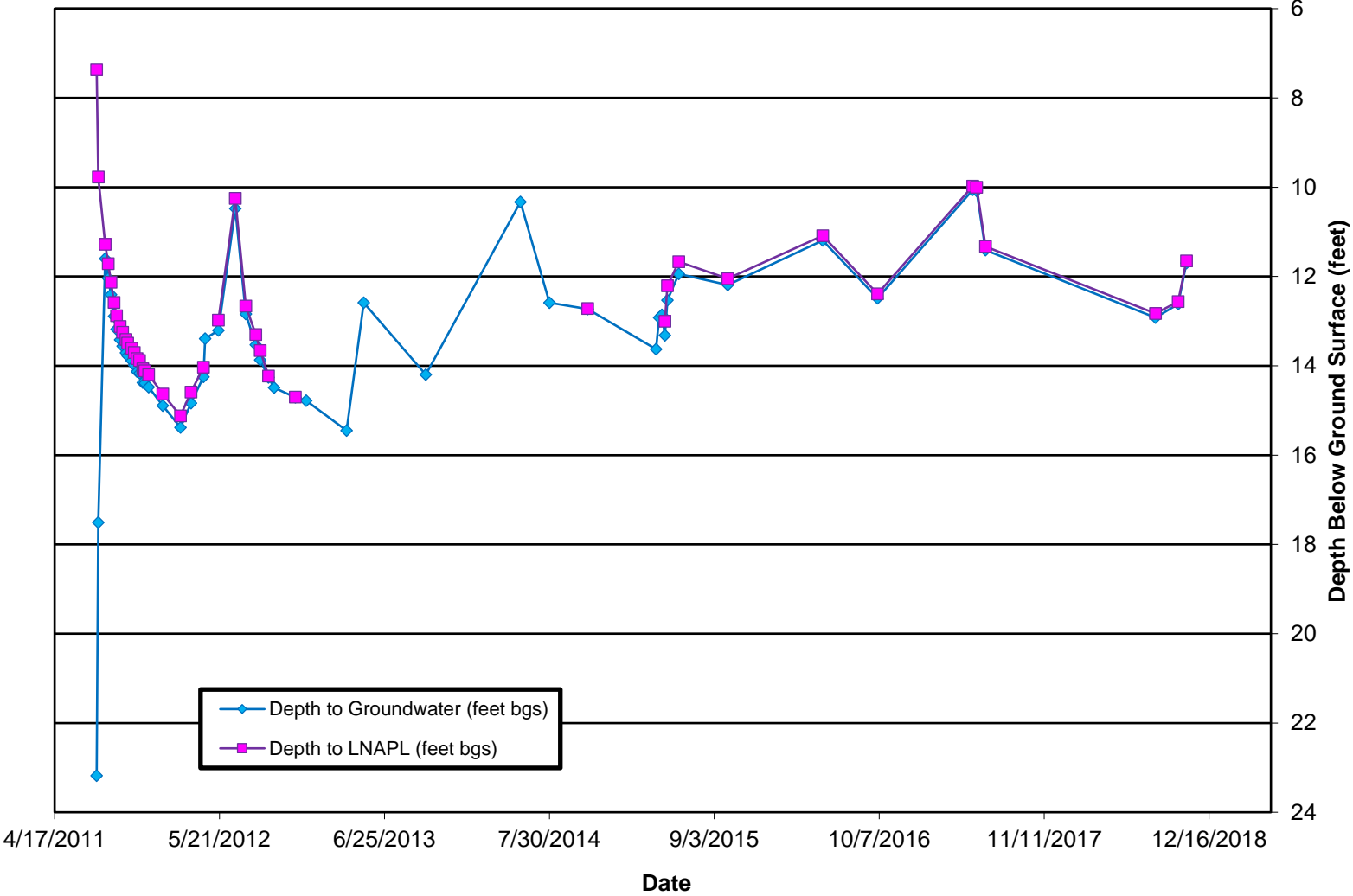


MWRR-8 (AOC 11) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

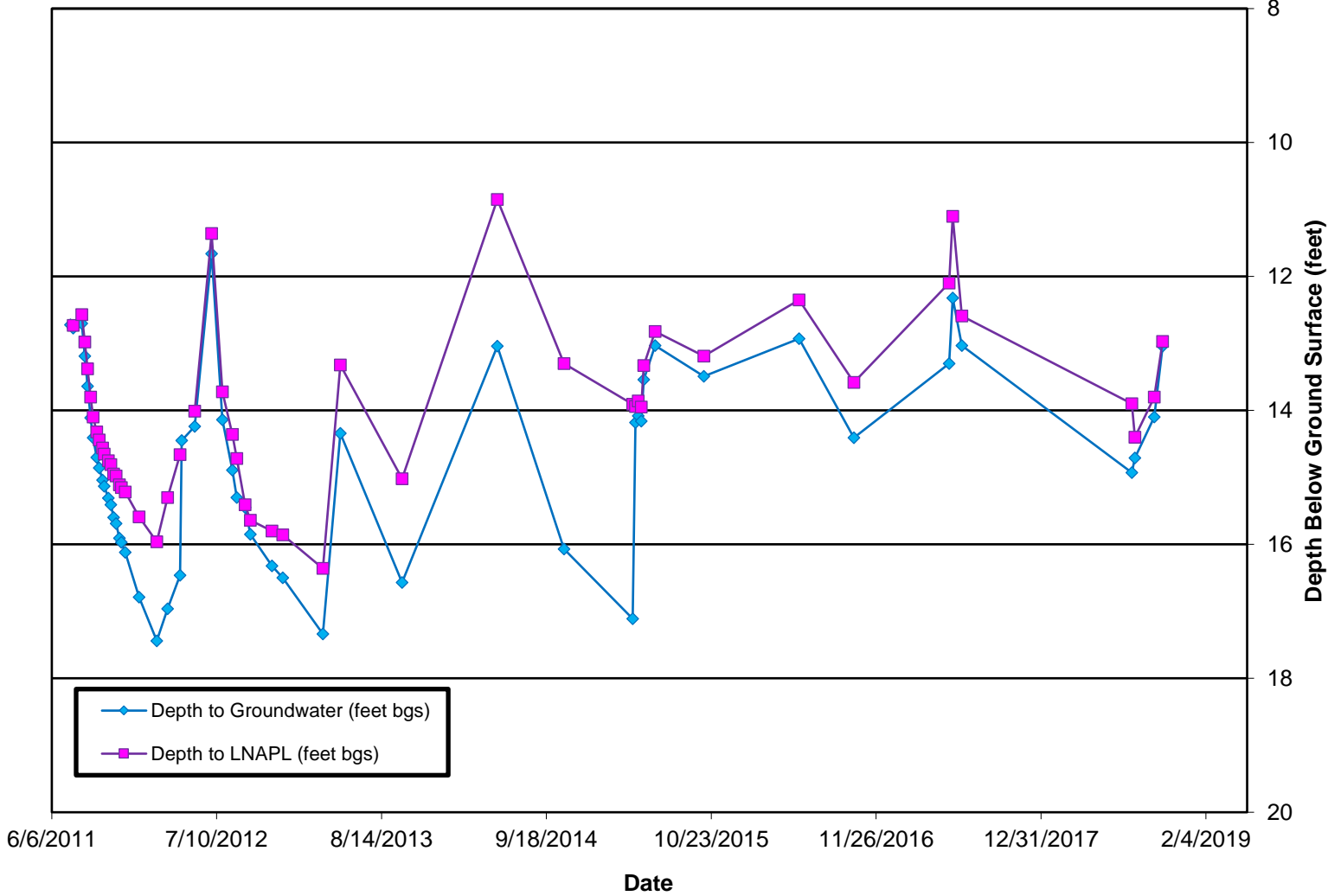


LRMW-10 (AOC 9)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

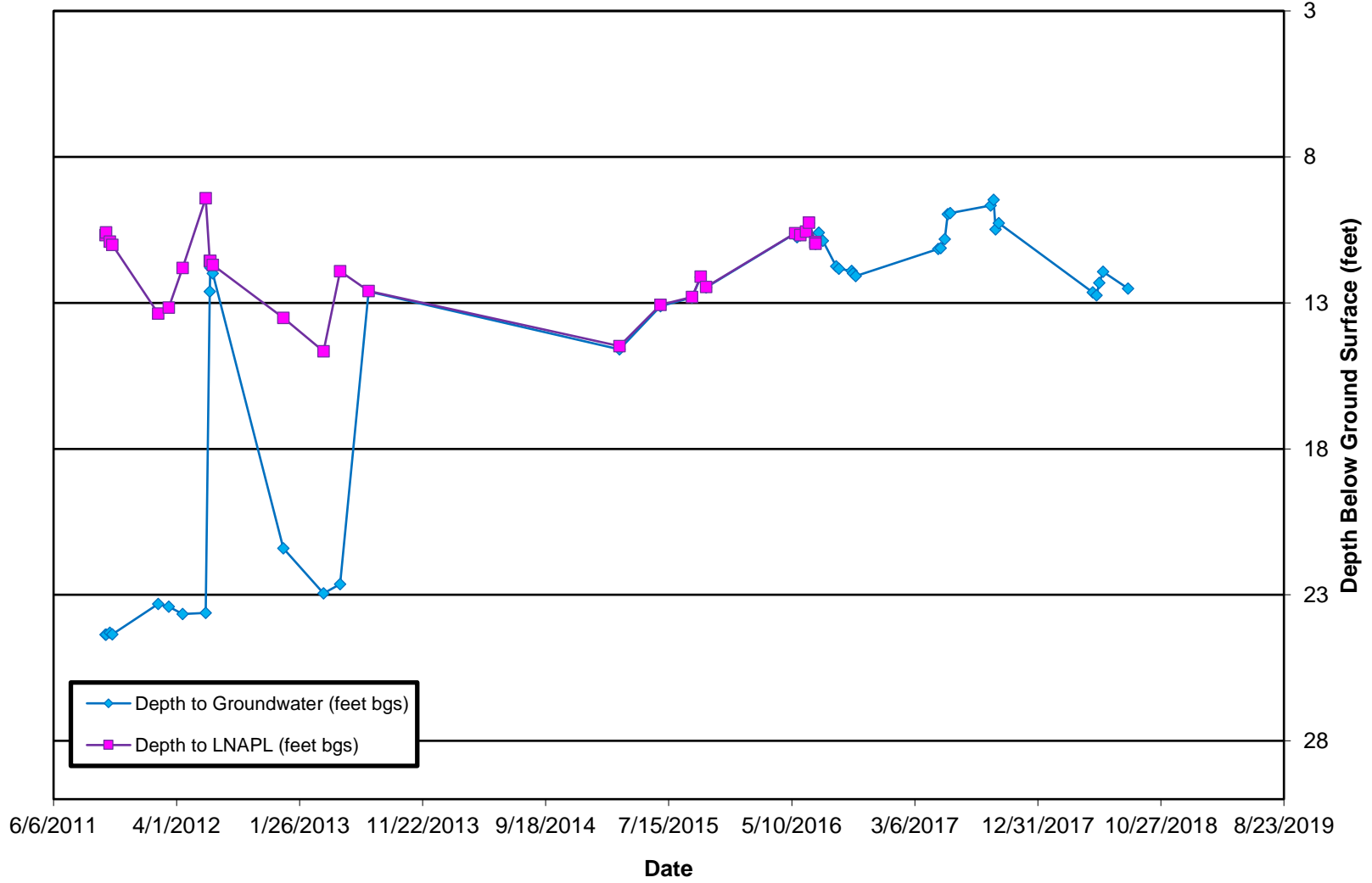


LRMW-11 (AOC 10)
Depth to LNAPL/Groundwater

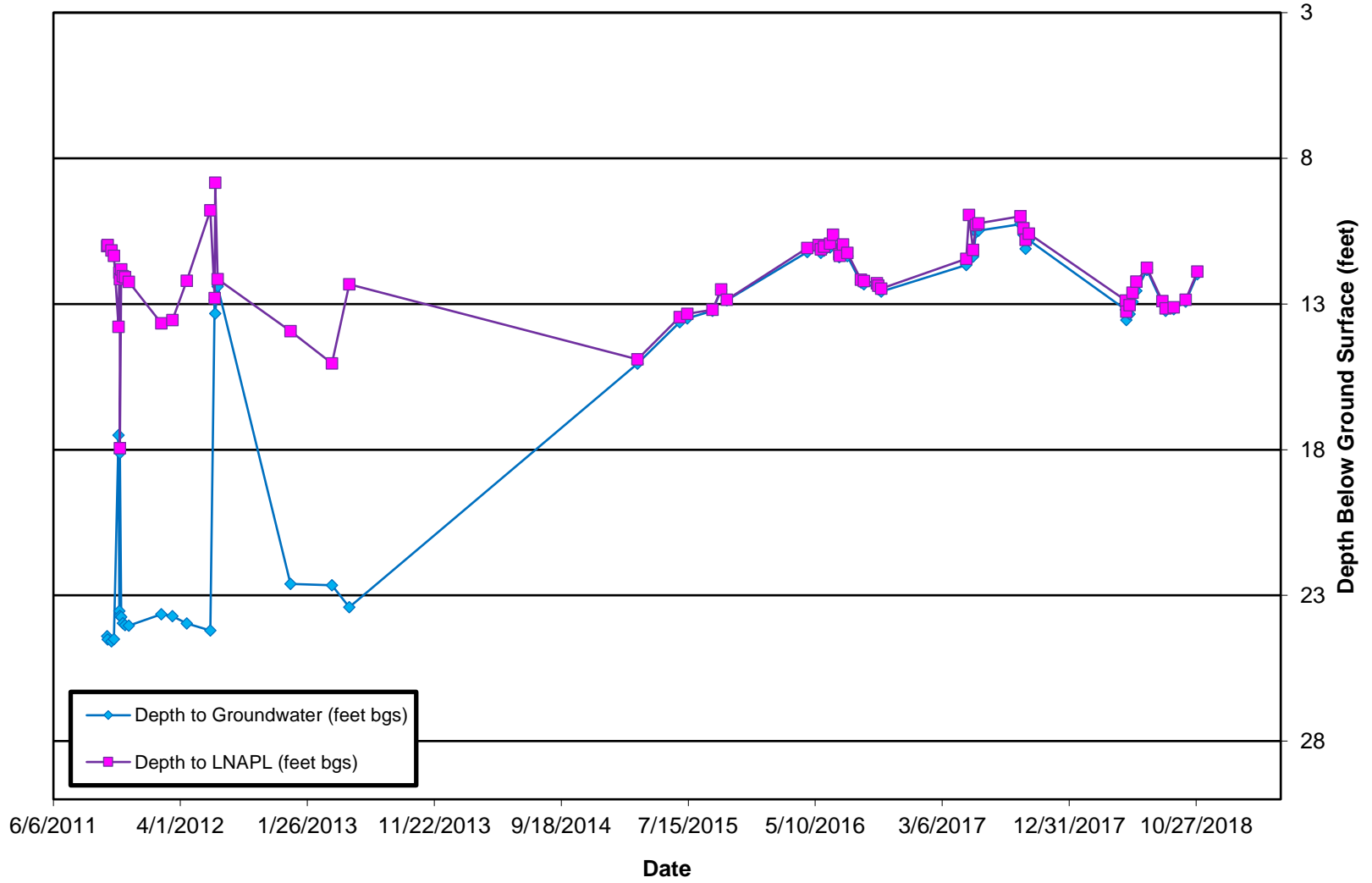
Former Amoco Terminal
Superior, Wisconsin



MRW-9
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



MRW-10
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



Appendix E

WDNR Operation, Maintenance, Monitoring, and Optimization Form
(Form 440-194)

Appendix E

WDNR Operation, Maintenance, Monitoring, and Optimization Form
(Form 440-194)

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

<http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf>

Section GI - General Site Information

A. General Information

1. Site name

Former Amoco Terminal

2. Reporting period from: 07/01/2018	To: 12/31/2018	Days in period: 184
3. Regulatory agency (enter DNR, DATCP and/or other) WDNR	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific) 02-16-117873	

5. Site location

Region Northern Region	County Douglas	Address 2904 Winter Street, Superior, WI				
Municipality name <input type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village Superior	Township 49 N	Range <input type="radio"/> E <input checked="" type="radio"/> W 14	Section 16	¼ NE	¼ ¼ SE	

6. Responsible party Name Antea Group, Project Manager Jonathan Zimdars	7. Consultant <input type="checkbox"/> Select if the following information has changed since the last submittal				
Mailing address 5910 Rice Creek Pkwy, Suite 100, Shoreview, MN 55126	Company name Antea Group				
Phone number (651) 639-9449	Mailing address same			Phone number (651) 639-9449	

8. Contaminants
Gasoline Compounds

9. Soil types (USCS or USDA)
CL/ML/SC

10. Hydraulic conductivity(cm/sec): 2x10^-4 (cm/s)	11. Average linear velocity of groundwater (ft/yr) 0.44 to 4.67 ft/yr
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12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region Wisconsin <input type="radio"/>	County Kenosha <input type="radio"/>
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Municipality name	City	Town	Village	Township	Range	E	Section	¼	¼ ¼
Emco-Waste Service Division				N		W			

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B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Groundwater extraction (submit a completed Section GW-1).
- Free product recovery (submit a completed Section GW-1).
- In situ air sparging (submit a completed Section GW-2).
- Groundwater natural attenuation (submit a completed Section GW-3).
- Other groundwater remediation method (submit a completed Section GW-4).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Soil natural attenuation (submit a completed Section IS-2).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Biopiles (submit a completed Section ES-1).
- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? Yes No

If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness Yes No

If yes, explain:

3. Is natural attenuation an effective low cost option at this time? Yes No

4. Is closure sampling warranted at this time? Yes No

5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No

If yes, explain:

D. Economic and Cost Data to Date

1. Total investigation cost: _____

2. Implementation costs (design, capital and installation costs, excluding investigation costs): _____

3. Total costs during the previous reporting period: _____

4. Total costs during this reporting period: _____

5. Total anticipated costs for the next reporting period: _____

6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No

If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout: _____

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E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.


Registered Professional Engineers:

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

Print name	Title
Signature	Date

Hydrogeologists:

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

Print name	Title
Wayne Hutchinson	Senior Hydrogeologist
Signature	Date
	2019-01-20

Scientists:

I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Other Persons:

Print name	Title
Signature	Date

Professional Seal(s), if applicable:



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Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: _____ and the number in use during period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

4. Quantity of groundwater extracted during this time period: _____ gallons

5. Average groundwater extraction rate: _____ gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds:

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? Yes No

If yes, explain:

Five passive skimmer pumps in the Barge Dock Phase II Skimming system recovering LNAPL from July 01 through October 29, one passive skimmer pump operated in MRW-3 from July 01 through September 04, one passive skimmer pump operated in MAST-4 from September 4 through October 29, and one passive skimmer pump operated in LRMW-7 from July 01 through September 4, 2018.

2. Quantity of free product extracted during this time period (enter none if none): 920.62 gallons

3. Average free product extraction rate: 0.01 gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? Yes No

If no, explain:

No, current remediation strategy is to recover free product.

2. If free product is present, is the free product fully contained in capture zone? Yes No

If no, explain:

Free product is immobile and Phase II system recovery trends show decreasing recovery rates.

3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:

Insufficient LNAPL thickness for select wells on site. Focus was to recover product at wells with an optimal LNAPL thickness for sufficient product recovery.

4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.

a. Contaminant: FREE PRODUCT

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L

d. Maximum contaminant concentration level in any extraction well of that contaminant: _____ µg/L

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- e. If the maximum concentration in a monitoring well is more than one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Groundwater contour map with capture zone indicated.
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
 - Graph of contaminant concentrations versus time for each extraction well in use during the period.
 - Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

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Section GW-2, In Situ Air Sparging Systems

A. In Situ Air Sparging System Operation

1. Number of air injection wells at the site and the number actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

B. System Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.
 - a. Contaminant: _____
 - b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %
 - c. Maximum contaminant concentration level in any monitoring well: _____ µg/L
2. Is there any evidence that air is short circuiting through natural or man-made pathways? Yes No
If yes, explain: _____
3. Is the size of the plume: Increasing Stabalized Decreasing ?
If increasing, explain: _____

C. Additional Attachments

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

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Section GW-3, Natural Attenuation (Passive Bioremediation) in Groundwater

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a

a. Contaminant: _____

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ $\mu\text{g/L}$

2. Aquifer parameters:

a. Hydraulic conductivity: _____ cm/sec

b. Groundwater average linear velocity: _____ ft/yr

3. Is there a downgradient monitoring well that meets ch. NR 140 standards? Yes No

4. Based on water chemistry results, is the plume: Expanding Stabalized Contracting ?

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? Yes No

If yes, explain:

6. Biodegradation parameters:

a. Upgradient (or other site specific background) DO level: _____ $\mu\text{g/L}$

b. DO levels in the part of the plume that is most heavily contaminated _____ $\mu\text{g/L}$

7. Is site closure a viable option within 12 months from the date of this form? Yes No

8. Are there any modifications that can improve cost effectiveness? Yes No

If yes, explain:

9. Have groundwater table fluctuations changed the contaminant level trends over time? Yes No

If yes, explain:

10. Has the direction of groundwater flow changed during the reporting period? Yes No

If yes, approximate change in degrees: _____

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.
- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

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Section GW-4, Other Groundwater Remediation Methods

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

a. Contaminant: _____

b. Percent reduction necessary: _____ %

c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is the size of the plume: Increasing Stabalized Decreasing ?

3. Describe the method used to remediate groundwater at the site:

4. List any additional information required by the DNR for this method for this site:

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

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Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: _____

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

4. Average depth to groundwater: _____ gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period: _____

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: _____ pounds per day

2. Average contaminant removal rate per well or venting point: _____ pounds per day

3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:

a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:

i. Oxygen levels in extracted air: _____ percent

ii. Methane levels in extracted air (ppmv) If over 10 ppmv, explain: _____

iii. If methane is not present above 10 ppmv and if oxygen is greater than 20 percent in extracted air, you should either:

- Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
- Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.

b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.

c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.

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Section IS-2, Natural Attenuation (Passive Bioremediation) in Soil

A. Effectiveness Evaluation

1. Soil gas information in the soil that is most contaminated from a permanently installed gas probe(s) or water table monitoring well(s).
 - a. Hydrocarbon levels: _____ ppm, with an FID
 - b. Oxygen levels: _____ percent
 - c. Carbon dioxide levels(specify ppm or percent): _____
 - d. Methane levels: _____ ppm
2. Soil gas information in background (uncontaminated soil) from permanently installed gas probe(s) or water table monitoring well(s):
 - a. Hydrocarbon levels: _____ ppm, with an FID
 - b. Oxygen levels: _____ percent
 - c. Carbon dioxide levels(specify ppm or percent): _____
 - d. Methane levels: _____ ppm
3. List the results of the single boring that had the highest levels of soil contamination during the last round of soil sampling, and the date those samples were collected. Since soil borings are only drilled periodically, list the most recent data even if the data is prior to this reporting period. Since this data is used to assess progress based on the most recent soil sampling event, do not list data from prior sampling events.
 - a. Total hydrocarbons (Specify if GRO and/or DRO): _____ $\mu\text{g}/\text{kg}$
 - b. Specific compounds ($\mu\text{g}/\text{kg}$):
 - i. Benzene: _____ $\mu\text{g}/\text{kg}$
 - ii. 1,2 Dichloroethane: _____ $\mu\text{g}/\text{kg}$
 - iii. Ethylbenzene: _____ $\mu\text{g}/\text{kg}$
 - iv. Toluene: _____ $\mu\text{g}/\text{kg}$
 - v. Total xylenes: _____ $\mu\text{g}/\text{kg}$
4. Is there any evidence that contaminants are leaching into groundwater? Yes No
If the answer is yes and if groundwater quality is not being monitored, explain:
5. Is site closure a viable option within 12 months from the date of this form? Yes No
6. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No
If yes, explain:

B. Additional Attachments

Attach the following to this form:

- Well and soil sample location map.
- Cross sections showing the water table, soil sampling locations, screened intervals for gas probes or water table wells, geologic contacts, and any former excavation boundaries.
- Graphs of contaminant concentrations, oxygen, carbon dioxide and methane levels over time.
- Groundwater elevations table, if water table wells are present at the site.
- Table of soil contaminant chemistry.
- Table of soil gas readings.

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Section IS-3, Other In Situ Soil Remediation Methods

A. Effectiveness Evaluation

1. Describe the method used to remediate soil at the site:

2. List all information required by the DNR for this remediation method for this site:

B. Additional Attachments

Attach the following to this form:

- Any other attachments required by the DNR for this remediation method.

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Section ES-1, Ex Situ Soil Treatment Using Biopiles

A. Effectiveness Evaluation

1. Volume of soil in the biopile (if multiple biopiles, list number of piles and total volume):

2. Monitoring used to assess progress and verify optimal conditions for biodegradation.

a. Vapor phase measurements of gases (average of all readings from most recent sampling event):

i. VOCs by FID: _____ ppm

ii. Oxygen: _____ percent

iii. Carbon dioxide: _____ percent

iv. Methane: _____ ppm

b. Soil temperature: _____ °F

c. Soil moisture sensors, if used: _____ percent

3. Treatment amendments added to the soil during construction:

a. Artificial nutrients, excluding manure.

i. Types and total pounds added:

ii. Nitrogen and phosphorous content of the added amendment: _____ percent

b. Manure: _____ total pounds

c. Natural organic materials (straw, wood chips, etc.)(type and total pounds):

4. Forced air biopiles only answer the following:

a. Total air flow rate of the ventilation system: _____ scfm

b. Average contaminant removal rate: _____ pounds per day

c. Average biodegradation rate based on oxygen utilization: _____ pounds per day

5. If soil samples have been taken to monitor progress, list results. Only list the most recent results. If none collected enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

b. Specific compounds (µg/kg):

i. Benzene: _____ µg/kg

ii. 1,2 Dichloroethane: _____ µg/kg

iii. Ethylbenzene: _____ µg/kg

iv. Toluene: _____ µg/kg

v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Figure showing the construction details of the biopile and any sampling locations within the biopile.
- Table of soil contaminant chemistry data.
- Table of operational data.

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Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

A. Effectiveness Evaluation

1. Method used: landspreading thinspreading

Note: For purposes of this form, "landspreading" is the placement of contaminated soil on native topsoil, incorporation of that soil into the native soil and planting crops or other plants on it. The term "thinspreading" refers to placing contaminated soil on an impervious base for aeration.

2. Was any progress monitoring using field screening on soil conducted during this reporting period? Yes No

3. If the answer to A.2. (above) is yes:

i. List monitoring method:

ii. List monitoring results:

4. Is there any evidence of soil erosion at the landspreading/thinspreading location? Yes No

5. Spreading thickness: _____ inches

6. Type of crop planted (if thinspreading with no crop planted, so state):

7. Confirmation sampling date: _____ Anticipated confirmation sampling date: _____

8. Most recent soil sample results, if soil samples for laboratory analysis have been collected to monitor progress. Only list the highest result of the most recent sampling round. If no samples have been collected, enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ $\mu\text{g}/\text{kg}$

b. Specific compounds ($\mu\text{g}/\text{kg}$):

i. Benzene: _____ $\mu\text{g}/\text{kg}$

ii. 1,2 Dichloroethane: _____ $\mu\text{g}/\text{kg}$

iii. Ethylbenzene: _____ $\mu\text{g}/\text{kg}$

iv. Toluene: _____ $\mu\text{g}/\text{kg}$

v. Total xylenes: _____ $\mu\text{g}/\text{kg}$

B. Additional Attachments

Attach the following to this form:

- Map of the landspreading/thinspreading area. If soil samples have been collected, specify locations of samples and dates of sampling.
- Table of soil contaminant chemistry data.
- Table of any field screening results with dates of sample collection.

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Section ES-3, Landfills

Note: Reporting forms or reporting requirements in a Department approved Operation and Maintenance Plan for a landfill may take the place of this form.

Specific Inspection Items	Potential Problem Areas	Status	Notes
Perimeter Security Fencing	Broken or missing wood slats, torn chain link fabric, barbed wire, other - list		
Entrance Gate and Locking Mechanism	Lockbroken/missing, mechanism inoperative.		
Monitoring Wells and Wellhead Covers	Signs of tampering, casing damaged, lock missing.		
Final Cover Vegetation	Bare spots, stressed vegetation, deep rooted vegetation.		
Final Cover Slope (explain below)	Gullies, lack of vegetation, subsidence, ponding.		
Evidence of Burrowing Animals	Damage to final cover, evidence of waste.		
Stormwater Drainage Channels	Gullies, erosion, debris, culvert blocked.		
Passive Landfill Gas Venting System	Damaged or blocked vent risers, stressed vegetation.		
Active Landfill Gas Extraction System	Damaged or blocked piping, cleanouts, other blower flare, knockouts, etc.		
Leachate Collection System	Pumps, connection piping, collection system piping, extraction wells, collection tanks, tanker truck loading system or sanitary sewer discharge piping.		
Access Road Cover Mowing; Tall Vegetation Removal	Ponding, rutting, erosion, cracked or damaged pavement. Mowing and tall vegetation removal done to specified vegetation.		

Summary of Deficiencies and/or Corrective Actions:

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B. Additional Attachments

Attach the following to this form:

- Any photographs documenting problems and maintenance activities.
- Maps, drawings showing site features requiring maintenance.
- Records for leachate pumping/discharge/hauling.
- Records for active gas extraction volumes.

Section INS- 1, Section by Section Instructions and Information

Specific Section by Section Instructions for This Form. The site name and reporting period is listed on every page. Then if the pages are inadvertently separated, that information can be used to determine which pages form the report.

General Site Information

- A.1. List the name as it appears on the DNR tracking system. If the person filling out the form does not know what the name on the tracking system is, use the name that the DNR used in the most recent correspondence.
- A.2. The reporting period should be either from January 1 to June 30 or July 1 to December 31 for active systems. For passive systems, use a calendar year basis. If however the report covers a newly installed system, list the actual startup date instead of January 1 or July 1. For new passive systems, use the first date that monitoring data is available as the date of startup.
- A.3. Enter all regulatory agencies that regulate the site.
- A.4. This form is a DNR form. For that reason, list the DNR site number. If there are other agencies regulating the site, listing identification numbers for other agencies is also recommended, but not mandatory, unless specified by those other agencies.
- A.5. If the information listed for the site location is not sufficient information for a person to use to drive to a site (example: no street address in a rural area), also include a map that is sufficient for a person to use to drive to the site. A U.S. G.S. topographic map that shows the site location may be used.
- A.8. List the contaminants that have at one time exceeded the PALs or Table Values in ch. NR 720. If GRO and/or DRO exceed the ch. NR 720 standards, also list GRO and/or DRO. Do not list other contaminants that have never exceeded state standards at the site. If more room is necessary, write "SEE ATTACHED SHEETS" and list all contaminants on a separate sheet.
- A.9. List the predominant soil types that are contaminated. If there is both contaminated soil and groundwater at the site, list soil types both above and below the water table. If only some soil is contaminated, do not list the soil types that are uncontaminated. If the site soils meet soil cleanup criteria, but groundwater is contaminated, so state that. Specify if the USCS or USDA system is used for soil descriptions. This line specifies soil because the vast majority of contaminated sites do not have contaminated bedrock. If bedrock is contaminated, also list that bedrock type.
- A.10. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, list the estimated hydraulic conductivity and the method used to estimate it (bail-down tests, calculations based on grain size, pumping test, etc.) If the hydraulic conductivity has not been determined, state when the tests are to be conducted. When a number of test results are available, list the range of results and the geometric mean. If however some results have a low level of accuracy and some results have a high level of accuracy, you should only list the most accurate results. See the Section on aquifer testing in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information.
- A.11. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, enter groundwater average linear velocity as a function of hydraulic conductivity, effective porosity and the groundwater gradient. You should use the geometric mean from A.11. (above) and the most representative value for the gradient at the site. Estimate the effective porosity based on soil types and geologic origin of the soil. If there are reasons to believe that the average liner velocity estimate is less than the actual rate at the site, so state that reason. Secondary porosity effects, flow through submerged utility trenches, widespread contaminant distribution in low permeability soils, etc., are reasons to assume that the actual migration rate is much greater than the predicted average linear velocity. In such cases, you should explain the reasoning for doubting the predicted average linear velocity.
- A.12. If the information listed for the soil treatment location is not sufficient information for a person to use to drive to a site, also include a map that is sufficient for a person to use to drive to the site. A U.S.G.S. topographic map or a plat map that shows the site location may be used.

- B. Check all methods used at a site. For example, if groundwater extraction, free product recovery and soil venting are used, check all three methods and submit the additional pages for those methods. If dual-phase or bioslurping are used, these methods extract both air and groundwater, check boxes for and attach additional pages for both soil venting and pump and treat.
- C. Remediation systems that use any form of enhancement are considered "active" and sites where there are no enhancements of any kind are considered "passive" forms of remediation. For purposes of these forms, natural attenuation (also called naturally occurring bioremediation) is "passive" and all other remediation methods are "active" methods.
- C.1. Design flow rates refers to flow rates such as gallons per minute extracted by a ground water extraction system, standard cubic feet per minute extracted by a soil venting system, standard cubic feet per minute injected by an in situ air sparging system, etc. If the actual flow rate is within 80 percent of the rate predicted in the design, consider that as meeting the design specification.
- D. The cost data in this section is used by DNR staff to evaluate whether or not the selected remedy is the most cost effective remedy and whether or not system modifications may be warranted to improve efficiency and/or cost effectiveness. Responsible parties and consultants are encouraged to submit cost information so that DNR staff may assist responsible parties and consultants accomplish environmental cleanups in the most cost effective manner.

Total costs for past costs are all costs to date. This information is for all costs that were incurred to investigate and/or remediate the site. These costs include but are not limited to: consulting labor and supplies, laboratory testing, transportation, equipment, etc. If the consultant does not pass all costs through the consulting firm, the consultant will need to contact their client for other non-consulting costs to determine total costs. Exceptions include costs for attorney fees, accounting, claim assistance in preparing claims to state reimbursement funds, or other indirect expenses that are not essential to remediating the site.

- D.2. The initial implementation costs are all costs that are incurred to start implementing a remedy at a site. Costs for the investigation however are excluded because those costs are incurred prior to remedy selection. Since costs for treatability and/or pilot testing are used to procure data for remedial design and are specific to different remediation methods, these costs should be included in implementation costs and not investigation costs. Startup or shakedown costs are also considered implementation costs and should not be considered operation and maintenance costs.
- D.3. Costs for implementation or investigation should not be repeated here or they will be double counted.
- D.4. Costs for implementation or investigation should not be repeated here or they will be double counted.
- D.5. Costs for implementation or investigation should not be repeated here or they will be double counted.
- D.6. Examples of one-time or unusual costs include the following:
 - o Replacing a burned out motor on a pump.
 - o Replacement of a well that was destroyed by a snowplow.
 - o Confirmation sampling to determine if the site meets closeout criteria. This type of cost is considered an unusual cost because this type of sampling is not conducted during most reporting periods.
- D.7. This estimate of costs is for all costs to close out a site minus the salvage value of any remediation equipment. Pertinent costs include items such as well abandonment, equipment removal from the site, consulting costs associated with these items, etc. Do not include any costs that will not be paid by a state reimbursement fund, such as repaving.

Section GW-1, Groundwater Extraction and Product Recovery

- A.1. List two numbers, the total number of extraction wells at the site and the number that were in actual use during the period. If all wells were in use, state that on the form.
- A.2. The number of days of operation are the number of days that the system was actually operated. If the system was shut down for reasons such as: repairs were necessary, piping froze, shut down to provide time for subsurface conditions to equilibrate before sampling, etc., do not list those days as being in operation.
- A.3. System utilization is a measure of the amount of time that the system operated relative to the amount of time that it could have operated.
- A.5. The average is for the entire site, not per well or trench. For purposes of determining the average ground water extraction rate, calculate the average based on the total volume of groundwater extracted divided by the time of the reporting period. For example, if the system operated at 10 gallons per minute for one month, the amount of water extracted would be approximately 432,000 gallons. If the reporting period was six months long, then the time period is approximately 260,000 minutes. Therefore, the average flow rate over six months is 432,000 divided by 260,000 minutes for an average flow rate of 1.67 gallons per minute (gpm).
- A.6. Calculate the total dissolved contaminants removed in pounds. If the estimate is a sum of BTEX and not based on a total hydrocarbon test (GRO and/or DRO), so state that on the form.
- B.3. The average should be based on the entire site over the entire reporting period. See instructions above for A.5. List the free product recovery rate as gallons per day (gpd), not gallons per minute (gpm).
- C.1. To answer this question, a thorough evaluation of water levels and chemical analyses in all monitoring points at the site is necessary.
- C.2. If the capture zone has not been determined mathematically, it will need to be determined to answer this question. See the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for and any recent update or errata sheets for more information on plume capture.
- C.4. When free product is present, line C.4.a. should state "FREE PRODUCT" and lines C.4.b. through C.4.d. are left blank. Otherwise, complete the following calculations.
There typically are several compounds at most contaminated sites that exceed the standards in ch. NR 140. The purpose of this question is to focus on the single contaminant that requires the most treatment to achieve groundwater quality standards on a percent reduction basis. For example, the most recent round of sampling at an example site demonstrated the highest levels of contaminants were 1,000 µg/L benzene and 1,000 µg/L toluene in the most heavily contaminated monitoring well. The ES and PAL for benzene is 5 µg/L and 0.5 µg/L (respectively) and for toluene the ES and PAL is 343 µg/L and 68.6 µg/L (ES and PAL data as of August 1995). Therefore the percent reduction to meet the ES and PAL for benzene is 99.5 and 99.95 percent and for toluene it is 65.7 and 93.14 percent. For that reason, the single contaminant that is most critical to reaching state groundwater standards is benzene. Therefore benzene is entered on line a. In this example, 99.5 and 99.95 percent is entered on line b. In this example, 1,000 µg/L is entered on line c. In this example, benzene is the driving factor, therefore enter the maximum benzene level in the single most heavily contaminated extraction well during the most recent sampling period on line d.
- D. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-2, In Situ Air Sparging

- B.1. See instructions for Section GW-1, Item C.4.
- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-3, Natural Attenuation in Groundwater

- A.1. See instructions for Section GW-1, Item C.4.
- A.2.a. List the estimated hydraulic conductivity that was listed on line A.11 in Section GI-1.
- A.2.b. List the groundwater average linear velocity that was listed on line A.12 in Section GI-1.
- A.3. Assess the monitoring well network to determine if there is a down gradient well that has not been impacted by the contaminants. Consider the possibility of a submerged (or diving) plume in that assessment. If all evidence indicates that the plume does not extend to the farthest "clean" downgradient well, indicate "YES" on the form. Otherwise indicate "NO" on the form. If there are not plans to install such a well, explain.
- A.4. Based on the contaminant distribution, evaluate whether or not the plume is expanding, stabilized, or contracting. When making this determination, consider the contaminant that requires the greatest percent reduction to achieve ch. NR 140 standards.
- A.5. If the plume is expanding and a justification is necessary, add additional sheets justifying why natural attenuation is still the appropriate remedy. If it is not, further describe in the explanation the plans to use a different remedy.
- A.6.a. Enter the upgradient dissolved oxygen (DO) level(s). If however there are contaminants measured in the upgradient well, it is not a true background measurement. In that case enter "UNKNOWN" on the form.
- A.6.b. Enter the range of DO values measured in wells within the plume.
- B. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-4, Other Groundwater Remediation Methods

- A.1. See instructions for Section GW-1, Item C.4.
- A.2. Self explanatory.
- A.3-4. Enter the information specified by the DNR for this method at this site.

Section IS-1, Soil Venting (Including both Soil Vapor Extraction and Bioventing)

- B.3. This subsection is used as a trigger for determining if the system requires an evaluation for future activities, such as improvements, converting the site to monitoring for natural attenuation, closure, etc. If an in situ respiration test must be performed, see Hinchee, R.E. and Ong, S.K. 1992. A Rapid In Situ Respiration Test for Measuring Aerobic Biodegradation Rates of Hydrocarbons in Soil. *Journal of the Air and Waste Management Association*. Volume 42, Number 10. Pages 1305 to 1312 for general procedures. For a discussion of methane monitoring, see the instructions for Section IS-2, item A.1.d., below. If the contaminant extraction rate in B.3. is greater than the trigger levels, leave lines B.3.a.i. and B.3.a.ii. blank.
- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section IS-2, Natural Attenuation in Soil

- A.1. This data is used to assess subsurface conditions based on soil gas data. Whenever possible, a permanently installed gas probe should be used. If at all possible, the gas probe should be located in the part of the site that is most heavily contaminated, since that is the part of the site that is likely to take the longest amount of time to meet ch. NR 720 standards. Water table wells that have screen exposed above the water table are also good measuring points. When installing permanent gas probes, you should install the screen deep enough that a true measure of the most heavily contaminated soil is possible, but install the screen shallow enough to assure that it is not submerged by groundwater table fluctuations. In some situations where the depth of contamination is variable, consideration should be given to using nested gas probes instead of only using probes at a single depth. Measuring points that should not be used include temporary gas probes because these points are less repeatable from one monitoring event to the next. Also, if there has been an active soil venting system in use at the site, the air extraction wells should not be used because these wells are in locations that have had much more aggressive treatment than the rest of the site.
- A.1.a. A flame ionization detector (FID) is specified instead of a photo ionization detector (PID) because PIDs often read inaccurately in moist oxygen deficient/carbon dioxide rich atmospheres. Also, PIDs do not detect some petroleum compounds.
- A.1.d. Methane readings are used to measure for anaerobic conditions. When the original product that is lost is a refined petroleum product (not crude oil), there should not be any methane within the product. Methane however may be produced under very anaerobic conditions. Any method may be used for measuring methane provided that the detection limit is less than a few ppmv. One convenient method is to use an FID that is equipped with a granular activated carbon filter to filter out non-methane components. Some instrument manufacturers make these filters available as options. In some cases an FID will flame out due to an oxygen deficiency. Some instrument manufacturers offer a dilution device as an accessory that is designed to prevent flameouts and also raises the upper limit of measurement to 10,000 ppmv or higher. If the meter "pegs" at 10,000 ppmv (or one percent), enter ">10,000 ppmv."
- A.2. The background monitoring point is predominantly used to measure natural oxygen and carbon dioxide levels in soil over time. For this reason, the background monitoring point should be reasonably close to the site, but not so close that the conditions are no longer representative. Considerable variations over time can occur, this background point should be measured during every sample event. Considerations for determining if a background point is representative include:
 - o If an on-site background point has minor levels of VOCs in it due to gas phase diffusion, that is acceptable, but if the levels are high, it may not be representative of true background conditions.
 - o Background oxygen and carbon dioxide levels vary with soil type and natural organic carbon content. For this reason, if at all possible, the soil types should be identical within the screened interval of all gas probes.
 - o The same depths should be used for all gas probes to allow comparison from one location to the next. If the depth to water varies greatly across the site, a certain amount of confusion in the data is likely. In this case, use professional judgement to provide the best data possible at a reasonable cost.
- A.3. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.
- B. Cross sections are self explanatory, see the generic discussion at the end of the instructions (below) for other attachments.

Section IS-3, Other In Situ Soil Treatment Methods

- A.2. Enter the information specified by the DNR for this method at this site.

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Section ES-1, Ex Situ Soil Treatment Using Biopiles

- A.3.a. The term "artificial nutrients" essentially means agricultural fertilizers or any other fertilizer products.
- A.3.a.i. The types of fertilizers that are added should be listed here by chemical names, not by vendor trade names.
- A.3.a.ii. List nitrogen content as N, list phosphorous content as phosphoric acid (P₂O₅). Note: Fertilizer ratings are based not on actual content of N, P and K, but on nitrogen (as N), phosphorous (as P₂O₅) and potassium (as K₂O).
- A.4.c. See example calculations at the end of this set of instructions.
- A.5. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.
- B. The figure is self explanatory. See the generic discussion at the end of the instructions (below) for instructions for the tables.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

- B. A map to scale of the landspreading location including and landmarks or benchmarks. When samples have been collected, the distances to any landmarks or benchmarks should be indicated.

Section ES-3, Other Ex Situ Soil Treatment Methods

- A.2. Enter the information specified by the DNR for this method at this site.

Section INS- 2, Figures, Graphs and Tables

When figures and graphs are specified, they should at a minimum contain the following information, or an explanation as to why the information is not necessary.

Maps. All maps should include the applicable information specified in s. NR 724.11(6), Wis. Adm. Code. In most cases, all information can be combined into a single map. There are times that a single map will have so much data that it is essentially unreadable. The consultant should use professional judgement when determining if a single map or multiple maps best portray the information necessary.

- Groundwater Contour Map Guidelines.
 - List groundwater elevations for each measuring point on the map.
 - Use the most recent data available.
 - For water table maps, do not use data from deeper piezometers. If piezometer data is shown, use a different symbol for the piezometers than used for water table wells.
 - If any wells are dry, indicate that on the map.
 - If free product is present at site, shade the area where free product is estimated to be present.
 - If groundwater is extracted with a pump and treat system, also denote plume capture zone.
 - If in situ air sparging or soil venting is in use, specify on the map if the system was operating or shut down during the water level measurements. See the Subsection on water table maps in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information on this topic.
- Groundwater Contaminant Distribution Map Guidelines.
 - Only contaminants that exceed the ch. NR 140 ES or PAL should be shown on the map. When contaminants are above the PAL or ES at some data points and below the PAL or ES at other data points, list the data for all locations to portray which areas of the site meet ch. NR 140 groundwater quality standards.
 - If a well is not sampled due to the presence of free product indicate "FREE PRODUCT" at those data points.
 - If more than five contaminants exceed ch. NR 140 ES, only the five contaminants that require the greatest percent reduction to achieve ch. NR 140 ES or PAL should be shown on the map.
 - Drawing isoconcentration lines is optional, unless specified for the site on a site specific basis.
 - If the contamination has crossed the property line, that property line should be clearly denoted on the map.
 - If in situ air sparging is used, water samples from ch. NR 141 type monitoring wells may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.
- Dissolved Oxygen Map Guidelines.
 - Dissolved oxygen data may be shown on the contaminant concentration graphs or on a separate graph.
 - Dissolved oxygen maps are optional for ground water extraction and product recovery systems.
 - When in situ air sparging is used, monitoring points may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples for DO. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.
- Well and Soil Sample Location Map Guidelines. Well and sample location maps for all methods should clearly indicate the location(s) of the release or the area where soil contamination historically has been highest. Also, if part of the contamination has been excavated, the pit boundaries.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour and contaminant distribution maps.
- In Situ Air Sparging - the map should indicate all air injection wells, soil venting extraction wells, and all groundwater monitoring points.

Maps (Continued).

- Natural Attenuation in Groundwater - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour maps.
- Soil Venting - indicate all air extraction wells. If any gas probes are used to assess subsurface conditions in either contaminated zones or background locations, also indicate those data points with a different symbol. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map.
- Natural Attenuation in Soil - show all monitoring points. Indicate which data points are background measuring points. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map. If the site was previously treated by soil venting, the locations of former air extraction wells should also be shown since these are areas where aggressive treatment has been applied. Also show area(s) of paved and unpaved ground surface. If pavement is significantly broken to allow significant water infiltration and air diffusion, map that area as broken pavement.

Graphs. All graphs that show time versus contaminant concentration or cumulative contaminant removal should be based on total time, not only operation time. All graphs that denote cumulative removal should use pounds of contaminant removed. Graphs should accurately show the time period(s) when the system was not operating. Plot time on the X axis, concentration or cumulative removal data on the Y axis.

- Time Versus Cumulative Removal. The recommended documentation for each remedial method is as follows:
 - Groundwater Extraction and Product Recovery - separate graphs should be used for free product recovery and dissolved phase recovery. A single graph for each phase is adequate, per well graphs are only necessary when specified by the Department on a site specific basis.
 - In Situ Air Sparging - no graph is necessary (removal data is shown on the graphs for the soil venting system).
 - Natural Attenuation in Groundwater - no graph is necessary.
 - Soil Venting - provide a graph of cumulative removal for total VOCs for the total system.
 - Natural Attenuation in Soil - no graph is necessary.
 - Ex Situ Soil Treatment Using Biopiles - Provide two graphs, one showing cumulative removal of total VOCs and a second graph showing total contaminant biodegradation over time.
 - Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.
- Time Versus Contamination Concentration Graphs. Create graphs with contamination level on the y axis (semilog scale) and time on the x axis (linear scale). If free product is present, time versus contamination concentration graphs are not necessary.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery - graph the contaminant level over time for the groundwater that is extracted by the extraction system. List all compounds that exceed ch. NR 140 ES or PAL. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
- In Situ Air Sparging - provide a graph for the single monitoring well that is most heavily contaminated. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
- Natural Attenuation in Groundwater - provide a graph for all monitoring wells that contain any compounds that exceed ch. NR 140 standards. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
- Soil Venting - provide a graph of contaminant concentration over time for the entire system for total VOCs. If any gas probes are used to assess subsurface conditions in either contaminated zones, also provide a graph with the data from the most heavily contaminated gas probe.
- Natural Attenuation in Soil - provide a graph of contaminant concentration over time for total vapor phase VOCs as measured with an FID, oxygen, carbon dioxide and methane in a gas probe.
- Ex Situ Soil Treatment Using Biopiles - no graph is necessary.
- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.

Graphs (Continued).

- Graph of Contaminant Concentrations Versus Distance. If free product is present, a graph of contaminant concentrations versus distance is not necessary.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery - no graph is necessary.
- In Situ Air Sparging and Natural Attenuation in Groundwater - plot a graph with distance (on the x axis, linear scale) and contaminant concentrations (y axis, log scale) from the upgradient measurement point to the farthest downgradient data point along the centerline of the plume. List the same contaminants as shown on the Time Versus Contaminant Concentration Graphs. Clearly show the source area on the graph. If free product has been present, label the data points that previously contained free product. For in situ air sparging, see comments above about samples collected from conventional monitoring wells with filter packs versus driven probes.

Tables. Whenever possible, data over the life of the project should be listed.

The recommended documentation for each type of table is as follows:

- Groundwater Contaminant Chemistry Data.

List:

- Contamination levels for all contaminants that exceed ch. NR 140 standards.
- Dissolved oxygen levels if applicable.
- Other biological parameters, if applicable (nitrogen, phosphorous, manganese, sulphate, iron, dissolved methane, redox potential, pH, microbial population size, etc.). See instructions for page GW-3 for more information on these parameters. Also, list the dates the samples were collected and the standard methods used to analyze the samples.

- Groundwater Biological Parameters.

For natural attenuation in groundwater only, these measurements should be listed (if known) to provide information on biodegradation. This table is not necessary for free product extraction, groundwater extraction or in situ air sparging.

Provide a table that includes any results of tests conducted for dissolved oxygen, nitrate, manganese, iron, sulphate, methane, redox potential, heterotrophic and/or hydrocarbon degrading microorganism populations. Identify on the table if the monitoring locations are upgradient, side gradient, downgradient, or within the plume, dates of sampling, and the analytical methods used for those parameters. Include all data for the life of the project. Since some of these tests are only conducted once, or periodically - enter "NS" in the table for not sampled for any parameters that were not sampled during a particular round of sampling.

When asked to list the standard methods, list the method if a standard method exists. There are however some tests (for example dissolved methane) where there are no official standard laboratory or field methods. In this case the laboratory will have to create their own standard procedures. In these cases list the name of the laboratory and that laboratory's name for that test.

Specific considerations for each parameter are as follows:

- Dissolved oxygen (mg/L). The most efficient mechanism for natural or enhanced biodegradation of petroleum compounds is aerobic biodegradation.
- Nitrate (mg/L as N). Nitrate (NO_3^{-1}) is a potential electron acceptor for denitrification and also serves as a nutrient for heterotrophic microbial populations to enhance aerobic biodegradation. Decreasing nitrate levels from background wells to wells within the plume are an indication of either aerobic or anaerobic biodegradation.
- Manganese as Mn^{+2} (mg/L). Manganese as Mn^{+4} is converted to soluble manganese as Mn^{+2} under anaerobic biodegradation. For this reason, total manganese analysis is not appropriate, only soluble manganese as Mn^{+2} . When the levels of soluble manganese are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.
- Iron as Fe^{+2} (mg/L). Iron as Fe^{+3} is converted to soluble iron as Fe^{+2} under anaerobic biodegradation. For this reason, total iron analysis is not appropriate, only soluble iron as Fe^{+2} . When the levels of soluble iron are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.

Tables (Continued).

- Dissolved sulphate (SO_4^{-2} , mg/L). Sulphate (SO_4^{-2}) is a potential electron acceptor. Decreasing sulphate levels from background wells to wells within the plume are an indication of anaerobic biodegradation.
- Dissolved methane (mg/L). Methane is produced under anaerobic conditions. Since background methane levels can usually be assumed to be zero, in most cases only measurements within the plume are used. Exceptions are when the natural soils have very high levels of TOC (for example peat), background methane levels are also warranted. When the contaminant is crude oil instead of a refined petroleum product, methane measurements may however cause erratic results. Significant amounts of methane may be created when other electron acceptors (NO_3^{-1} , Mn^{+4} , Fe^{+3} and SO_4^{-2}) are exhausted. For this reason, significant levels of methane are indicative of very very anaerobic conditions.
- Redox potential (millivolts, include + or - sign). Redox potential is another measure of the level of aerobic/anaerobic conditions, however it is a much more sensitive measurement than DO at very low levels of DO.
- Heterotrophic and hydrocarbon degrading microorganism populations (CFU/mL). Heterotrophic and specific hydrocarbon degrader population sizes should be listed for both background locations and locations within the plume, if there is information available. There is disagreement by many of the experts within the field as to the merits of sampling for this parameter. Refer to other DNR guidance documents on natural attenuation (or passive bioremediation) for more information on this topic.

- Soil Gas Data.

The recommended documentation for each remedial method is as follows:

- When natural attenuation in soil is used, provide a graph of all soil gas readings over time for every data point.
- When soil venting is used, if a gas probe is used to assess subsurface conditions over time in a location where air is not extracted, provide that data in a table.

- System Operational Data.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery:
 - Well by well flow rates in gpm for each extraction well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
- In Situ Air Sparging:
 - Air pressure and injection flow rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
- Natural Attenuation in Groundwater - no table needed.
- Soil Venting:
 - Vacuum readings and extraction rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
 - Air concentrations in ppmv or in mg/L for total VOCs.
 - Total system contaminants removed in pounds and the pounds per day removal rate.
- Natural Attenuation in Soil - no table needed.

Site name: Former Amoco Terminal

Reporting period from: 07/01/2018

To: 12/31/2018

Days in period: 184

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

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Tables (Continued).

-- Ex Situ Soil Treatment Using Biopiles:

- If forced air ventilation is used:
 - System extraction rates in scfm.
 - Air concentrations in ppmv for total VOCs.
 - Total system contaminants removed in pounds and the pounds per day removal rate.
 - Temperature.
- If passive ventilation is used, a table of temperatures.

-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no table is needed.

Acronyms and Abbreviations:

CFU/mL	colony forming units per milliliter
cm/sec	centimeters per second
DATCP	Department of Agriculture, Trade and Consumer Protection
DCOM	Department of Commerce
DNR	Department of Natural Resources
DO	Dissolved Oxygen
DRO	Diesel Range Organics
ES	Enforcement Standards in NR 140
FID	Flame Ionization Detector
ft/yr	feet per year
gpd	gallons per day
gpm	gallons per minute
GRO	Gasoline Range Organics
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NR	prefix for rules established by the DNR
P.E.	Registered Professional Engineer
P.G.	Registered Professional Geologist
PAL	Preventative Action Limit in NR 140
PECFA	the state sponsored cleanup fund for certain petroleum contaminated sites
ppmv	parts per million by volume (vapor phase only)
scfm	standard cubic feet per minute
TOC	Total Organic Carbon
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
µg/kg	micrograms per kilogram
µg/mL	micrograms per milliliter
VOC	Volatile Organic Compounds
Y/N	Yes or No

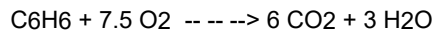
Section INS-3, Example Calculations for Determining the Biodegradation Rate on Forced AirBiopiles

Important Note: This page uses a nonproportional font and characters that are unique to WordPerfect. If the user received this document electronically, this page may need to be converted to a different font for the formulas to print correctly. The original font used for this page was prestige elite with 16.67 characters per inch.

Assumptions:

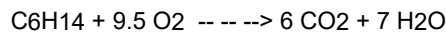
- The measurements at the stack are as follows:
 - Average flow rate is 20 scfm.
 - Average oxygen level extracted from biopile is 14.0 percent by volume.
 - Average carbon dioxide level extracted from biopile is 3.5 percent by volume or 35,000 ppmv.
- Atmospheric air contains 21 percent oxygen by volume and 400 ppmv (or 0.04 percent) carbon dioxide. (Note: On each site visit, the consultant should check atmospheric air to assure that the instrument is spanned correctly.)
- Atmospheric air weight 0.0763 pounds per cubic foot at standard temperature and pressure (Gibbs, 1971).
- Average molecular weight of air is 28.97 (Gibbs, 1971) which is rounded off to 29, molecular weight of O2 is 32, molecular weight of CO2 is 44.
- For every pound of contaminants biodegraded, 3.3 pounds of oxygen is utilized and up to 3.2 pounds of carbon dioxide is generated.

-- The stoichiometry of aerobic benzene biodegradation can be described as follows:



Based on this, benzene biodegradation requires that 3.07 pounds of oxygen are utilized to fully oxidize one pound of benzene, assuming no electron acceptors other than oxygen are used. Assuming no biomass is produced and no geochemical reactions consume carbon dioxide, 3.38 pounds of carbon dioxide is generated from one pound of benzene.

-- The stoichiometry of aerobic hexane biodegradation can be described as follows:



Based on the above assumptions, hexane biodegradation requires 3.52 pounds of oxygen and generates up to 3.06 pounds of carbon dioxide.

Other hydrocarbons also require a similar ratio of oxygen for aerobic biodegradation. For purposes of this guidance it is assumed that a pound of petroleum contamination requires 3.3 pounds of oxygen and generates up to 3.2 pounds of carbon dioxide and 1.1 pounds of water in the biodegradation reaction.

Calculations:

Oxygen utilization rate:

$$(0.21 - 0.14) * \frac{32 \text{ pounds}}{29} * \frac{\text{ft}^3}{\text{min}} * 0.0763 * \frac{\text{min}}{\text{hour}} * 20 * \frac{\text{pounds}}{\text{hour}} * 60 = 7.07$$

Carbon dioxide production rate:

$$(0.035 - 0.0004) * \frac{44 \text{ pounds}}{29} * \frac{\text{ft}^3}{\text{min}} * 0.0763 * \frac{\text{min}}{\text{hour}} * 20 * \frac{\text{pounds}}{\text{hour}} * 60 = 4.81$$

Site name: Former Amoco Terminal

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Calculations (Continued):

Biodegradation rate based on oxygen:

$$7.07 / 3.3 = 2.1 \text{ pounds per hour}$$

Biodegradation rate based on carbon dioxide:

$$4.81 / 3.2 = 1.5 \text{ pounds per hour}$$

Since the biodegradation rate is based on oxygen utilization and/or carbon dioxide generation, it is a measure of the overall biodegradation rate of all carbon sources, including natural organic carbon and any organic materials that were added. For this reason, the biodegradation rate is not specific to hydrocarbons and it is likely that the measured biodegradation rate will overestimate the rate of contaminant reduction.

Commonly the measured biodegradation rate based on carbon dioxide generation is less than the rate estimated with oxygen. Because of geochemical interferences and biomass formation, estimates based on carbon dioxide measurements are often low. If however the biodegradation rate estimate based on carbon dioxide is significantly greater than the estimate based on oxygen, it is likely that there is a measurement or calculation error. In this way, the carbon dioxide measurements can be used to double check the oxygen measurements and calculations.

*2018 July-Dec. Progress Report
Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin
Antea Group Project No. WISUP191*



Appendix F

Waste Disposal Manifests - Future Environmental

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone
(800) 424-9300

4. Waste Tracking Number

CES

145587

5. Generator's Name and Mailing Address

Former Amoco Terminal - Superior, WI
2904 Winter Street
Superior, WI

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

Covanta Environmental Solutions Carriers II, LLC

U.S. EPA ID Number

WIR000165399

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Covanta Environmental Solutions, LLC - Fox Valley
210 Tower Rd.
Winneconne, WI 54986

U.S. EPA ID Number

Facility's Phone:

(920) 582-7596

WIR000131656

9. Waste Shipping Name and Description

10. Containers

No. Type

11. Total Quantity

12. Unit Wt./Vol.

1.

NONE

2.

3.

4.

13. Special Handling Instructions and Additional Information

Phone #1: 1000180960-5 No. 5 Covanta
Environment

Trailer # 915
Emergency Response Guide On-board
Site arrival time _____
Site departure time _____
www.covanta.com

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Logan Kertlein

Logan Kertlein

10 16 18

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

KEITH A CHARLES

Keuschel

10 16 18

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

1028589

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

414-761-9421

4. Waste Tracking Number

0027146

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Ant's Group
2501 West 17
Superior, WI

Generator's Phone:

6. Transporter 1 Company Name

FUTURE ENVIRONMENTAL

U.S. EPA ID Number

WI0000122358

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

ELITE
360 S CURTIS RD
WEST ALLIS, WI 53214

U.S. EPA ID Number

WI0000140988

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. NON HAZARDOUS, NON REGULATED BY DOT

001

TT

2500

G

2.

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

10 30 18

GENERATOR

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

10 30 18

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

DESIGNATED FACILITY

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year


Appendix G

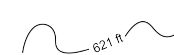
3D Benzene Plume Model - Vertical Delineation Well Network


ATTENTION! This image is an interactive 3D model.
To rotate: hold left mouse button and move mouse.
To pan: hold "Ctrl"+ left mouse button and move mouse.
To zoom: hold right mouse button and move mouse or use mouse scroll wheel.

For a menu of advanced controls, right-click mouse on the 3D image.

Legend

 Ground Water Elevation

 Base of Clay elevation contour

 Benzene Plume above 1,000 ug/L from October 9-10, 2018 sampling

Well



Riser

Screen

Former Amoco Terminal 00406
Superior, Wisconsin
October 2018 Benzene
Concentration above 1,000 ug/L

