

November 7, 2022

Mr. Riley Neumann  
Wisconsin Department of Natural Resources  
2300 North Dr. Martin Luther King, Jr. Drive  
Milwaukee, Wisconsin 53212-3128

**Re: *Quarterly Groundwater Sampling Report  
(October 2022 Results)***  
***BRRTS #: 02-41-576336 & 02-41-579429***  
***FID #: 241828620***  
***Sunrise Shopping Center***  
***2410-2424 10<sup>th</sup> Avenue & 1009 Marquette Avenue***  
***South Milwaukee, Wisconsin 53172***

Mr. Neumann:

Please find enclosed the *Quarterly Groundwater Sampling Report* for the Sunrise Shopping Center facility located at the above-referenced address. Quarterly groundwater sampling of three (3) monitoring wells on-site continues to monitor any changes in Polynuclear Aromatic Hydrocarbon (PAH) and Tetrachloroethene (Perc) concentrations. PAH groundwater contaminant concentrations are monitored at MW-3 and MW-4 to assess if there is a need for remedial actions. Sampling for Perc concentrations in MW-5 continues to assess remedial progress and to determine plume stability.

A brief discussion of the quarterly sampling protocol and results of the October 2022 groundwater sampling are included in this quarterly report. As required, this quarterly report and all supporting documentation have also been submitted electronically to WDNR. If you have any questions or require additional information in regard to this submission, please contact me at (847) 9963-3580. Thank you for your time.

Sincerely,  
**DAI Environmental, Inc.**



Christopher Cailles, P.E.  
Project Engineer

Enclosure

**QUARTERLY GROUNDWATER SAMPLING REPORT  
(OCTOBER 2022 RESULTS)  
SUNRISE SHOPPING CENTER  
2410-2424 10<sup>TH</sup> AVENUE & 1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN 53172  
WDNR BRRTS ACTIVITY #02-41-576336 & 02-41-579429  
WDNR FID #241828620**

November 7, 2022

DAI Project Number: 6255

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## **1.0 INTRODUCTION**

Soil and groundwater Remedial Actions are being performed at the Sunrise Shopping Center facility, addressed as 2410-2424 10<sup>th</sup> Avenue and 1009 Marquette Avenue in South Milwaukee, Wisconsin (Site). Figure B.1.b.1 in Attachment B provides an aerial view of the Site and surrounding property. The Remedial Actions to address Volatile Organic Compound (VOC) contamination are being performed under BRRTS number 02-41-576336, and the Remedial Actions to address Polynuclear Aromatic Hydrocarbon (PAH) contamination are being performed under BRRTS number 02-41-579429. As part of the Remedial Actions, quarterly groundwater sampling has been conducted since January 2018. A brief discussion of the quarterly sampling protocol and results are provided below.

## 2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM

Quarterly groundwater sampling was first performed on January 5, 2018. The first quarterly sampling event included a complete round of sampling from each of six (6) monitoring wells (MW-1 to MW-5 and MW-201) installed at the Site. Figure B.3.d provides the locations of the monitoring wells. As proposed in the December 28, 2017, *Site Investigation Work Plan*, the groundwater samples from all monitoring wells were submitted for analysis of PAHs, and a sample from MW-5 was also collected for VOC analysis. Results of the January 2018 groundwater sampling were provided to the Wisconsin Department of Natural Resources (WDNR) in the *Site Investigation Report Amendment Addendum* dated February 28, 2018. Results of subsequent 2018 quarterly sampling events were provided in *Quarterly Groundwater Sampling Reports*.

### 2.1 Quarterly Sampling Protocol

Based upon the results of the January 2018 sampling event, quarterly groundwater sampling is conducted at monitoring wells MW-3 to MW-5. Since no contamination was observed in monitoring wells MW-1, MW-2, or MW-201, no groundwater samples are collected from these wells as part of the quarterly sampling protocol. However, four (4) additional groundwater monitoring wells (MW-600 to MW-603) were recently installed in January 2022 (see Figure B.3.d). Groundwater samples are not collected from these wells as part of the quarterly sampling event, although the new wells are gauged for static water elevation.

The purpose of the quarterly groundwater sampling is to monitor any changes in groundwater contaminant concentrations and determine the need for any future remedial actions. The groundwater sampling has documented Tetrachloroethene (Perc) groundwater concentrations before, during, and following the chemical treatment Remedial Actions. The quarterly groundwater sampling has been performed as follows:

- Static water level measurements are collected from all accessible monitoring wells using an electronic water level indicator capable of detecting water depth with an accuracy of  $\pm 0.01$  ft;
- Groundwater samples are collected from monitoring wells MW-3 and MW-4 for laboratory analysis of PAHs; and

- A groundwater sample is collected from monitoring well MW-5 for laboratory analysis of VOCs.

## **2.2 Groundwater Sampling Procedures and Chemical Analysis**

Consistent with sampling protocol followed during Site Investigation activities, the three (3) monitoring wells were purged prior to sample collection, to the extent practicable, to remove turbidity from the groundwater and allow the collection of a sediment-free sample that was representative of the surrounding groundwater conditions. Following purging, groundwater samples were collected from MW-3 to MW-5. Monitoring wells MW-4 and MW-5 were sampled using disposable PVC bailers; a groundwater sample was obtained from MW-3 using a peristaltic pump with dedicated PVC tubing. Groundwater samples were distributed directly into the appropriate sample containers for subsequent laboratory analyses as follows:

- MW-5: VOCs via USEPA Method SW8260; and
- MW-3 and MW-4: PAHs via USEPA Method SW8270E by SIM.

The sample submitted for analysis of VOCs was dispensed into 40-mL vials preserved with hydrochloric acid, and the samples submitted for analysis of PAHs were dispensed into unpreserved 100-mL amber glass containers. New disposable nitrile gloves were used to collect each sample to limit cross contamination. The samples were stored on ice immediately after collection and were maintained at a temperature of 4°C or lower via a cooler with ice. Samples were ultimately transferred to Pace Analytical Services, LLC (Pace Analytical) of Green Bay, Wisconsin, an independent analytical laboratory following the standard chain-of-custody procedures.

## **3.0 QUARTERLY GROUNDWATER SAMPLING RESULTS**

### **3.1 Static Groundwater Elevations**

To evaluate potential seasonal fluctuation in static water elevation and/or groundwater flow direction, a complete round of static groundwater elevations was collected as part of the fourth quarter 2022 groundwater sampling event, including the four (4) recently installed monitoring wells. The static water level elevations were collected from all monitoring wells on October 3, 2022, and referenced to the top of casing elevations based upon the complete resurvey performed on February 1, 2022. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that there is relatively high variability in elevation between quarters. The highest quarterly variability is observed in monitoring wells MW-1 and MW-3, which are located in areas of the Site with known subsurface disturbance, while monitoring wells MW-5 and MW-201 generally fluctuate less between quarters. The recently installed monitoring wells also appear to indicate a lower variability, though less data are currently available.

Prior to installation of the 600-series monitoring wells, the consistently observed groundwater flow direction was northwesterly along the southern half of the Site and north-northeasterly along the northern half of the Site. However, with the addition of the 600-series monitoring wells and the exclusion of MW-1 and MW-3, which are influenced by large areas of backfill, a more east-northeasterly groundwater flow direction has been observed. The potentiometric surface map generated from the October 2022 data is included as Figure B.3.c.24 (see Attachment B).

### **3.2 Groundwater Analytical Results**

Groundwater samples for the fourth quarter of 2022 (i.e., October-December 2022) were collected on October 3, 2022, following the protocol described in Section 2.2. The groundwater sample collected from MW-5 was analyzed for VOCs, and the samples from MW-3 and MW-4 were analyzed for PAHs. A summary of all groundwater sampling data collected from monitoring wells MW-3 to MW-5 since the beginning of Site Investigations is provided Tables A.1.A-A.1.B of Attachment A. The tables are compared to the Preventative Action Limits PAL (PALs) and



Enforcement Standards listed in Table 1 of NR 140. A copy of the laboratory analytical report for the fourth quarter 2022 sampling is provided in this report as Attachment C.1.E.

### **Volatile Organic Compounds**

Table A.1.A summarizes the quarterly groundwater sampling results from MW-5 for Perc and Trichloroethene (TCE), which are the only VOCs of concern observed in the groundwater (previous quarterly reports include a full summary of VOC analyses). Results of groundwater sampling at MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location), have indicated Perc at concentrations exceeding the Enforcement Standard of 0.005-mg/L since February 2016. These Perc concentrations increased through October 2018, followed by a decline in concentration, and then a period of general stability between September 2019 and May 2021.

The Perc concentrations between August 2021 and October 2022 have also remained rather stable, but at slightly increased concentrations than previously observed. With the exception of April 2022 (0.011-mg/L), Perc concentrations have ranged between 0.019-mg/L and 0.24-mg/L. The most recent concentration observed in October 2020 was 0.019-mg/L. Generally, the data indicate relatively stable Perc contaminant concentrations around MW-5. Figure B.3.b.1a provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination.

The monthly samples collected from the Ace Hardware sump, which continues to function for groundwater recovery, also indicates stable Perc concentrations. (The influent water in the sump is collected prior to treatment and final discharge to the stormwater sewer system). Table A.5 summarizes the monthly sump sample results, and Figure B.3.b.1a provides a summary of monthly Perc concentrations from the previous semi-annual period (i.e., July-December 2021) through October 2022.

Since the groundwater sampling was initiated, the TCE concentration in MW-5 was observed at a level above the PAL (0.0005-mg/L) on three (3) occasions: January 2019 (0.0027-mg/L), April 2019 (0.00071-mg/L), and most recently in January 2022 (0.00067). All other TCE

concentrations were below the PAL, including the most recently collected October 2022 sample. Figure B.3.b.1b provides a historical summary of TCE groundwater concentrations.

### **Polynuclear Aromatic Hydrocarbons**

Table A.1.B summarizes the results of Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene in MW-3 and MW-4, which are the PAH analyses of concern in the groundwater on the southern portion of the Site (previous quarterly reports include a full summary of PAH analyses). MW-3 is installed in the southern portion of the property where contamination from historical petroleum and/or coal storage was identified. MW-4 is installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST. Figures B.3.b.2a to B.3.b.2d provide a historical summary of groundwater results for Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene, respectively.

A review of historical sampling results from MW-3 indicates the presence of PAH contamination in groundwater during each sampling event. Consistent with past sampling events, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene were observed in MW-3 at groundwater concentrations above the Enforcement Standard (other PAH constituents were also observed but at concentrations below PALs). Following a period of general stability in concentration between July 2019 and May 2021 (excluding a concentration spike in October 2019), groundwater concentrations decreased in August 2021, then followed by increased concentrations each quarter through April 2022. The August 2022 concentrations were slightly lower, but generally consistent with the April 2022 concentrations. The October 2022 concentrations indicate a further decrease from August 2022, the concentrations nearly identical to October 2019 concentrations. With no active PAH source, the variability in groundwater concentrations is believed to be associated with the fluctuations in the groundwater table elevation through the contaminated fill material and possible negative impact on sampling results due to the damaged monitoring well casing.

As previously discussed, results of the PAH the February 2022 sampling of MW-601 and MW-602 (east and west MW-3) indicated Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene at concentrations above the PAL, but below the Enforcement Standards. Concentrations in MW-601 to the east were higher than those in MW-602, consistent with the location of the known

PAH soil contamination. Considering the known PAH soil impacts throughout the southern portion of the Site, low-level PAH concentrations in the groundwater at these locations was expected, but the results do indicate that the higher PAH groundwater impacts are limited to the area of contaminated fill material surrounding MW-3.

The results of October 2022 sampling indicate an increase in groundwater concentrations, with the Benzo(b)fluoranthene and Chrysene concentrations exceeding the Enforcement Standards. Though the concentrations were an increase from those observed in August 2022, the most recent results are generally comparable to be mostly stable concentrations observed between July 2020 and May 2021. Similar to MW-3, groundwater concentrations in MW-4 fluctuate, but data do not indicate any increasing trend in concentration. The more elevated concentrations and higher variability observed between August 2021 and August 2022 was attributed to the observation and subsequent removal of free-product petroleum identified in MW-4. A total of approximately 3.5-gallons of product were recovered by manual extraction efforts. If observed, additional recovery efforts will be performed and the results reported to the WDNR in the quarterly groundwater sampling reports.

#### 4.0 SUMP WATER SAMPLING RESULTS

To address the Perc contamination identified in the sump water from the basement of the Ace Hardware building, an activated carbon treatment system was proposed to the WDNR. The proposed treatment system discharge was issued coverage under WPDES Permit Number WI-0046566-07-0 in a letter dated April 10, 2019, and the system began operation on May 14, 2019. As a condition of the permit approval, weekly discharge samples were required to be collected for a period of 4-weeks followed by monthly sampling thereafter. Weekly samples were collected on May 15<sup>th</sup>, 23<sup>rd</sup>, 29<sup>th</sup>, and June 6, 2019. The first monthly sample was collected on June 25, 2019. In addition to the required discharge samples, samples of the sump water have been collected for VOC analysis to both monitor the groundwater contaminant concentrations around the Ace Hardware building and verify the system is operating correctly.

While not strictly part of the quarterly sampling protocol, results of the sump water sampling are included with this submission as an indication of the groundwater contaminant concentrations below and around the Ace Hardware building. The results of the sump water samples are summarized in Table A.5. (Because all VOCs are reported below the LOD with the exception of Perc, Table A.5 only summarizes the Perc results.) The sump water sample results since July 2021 to the present are provided in Figure B.3.b.1a. (Previous reports included earlier sump data.)

As noted in Table A.5, the Perc concentrations in the influent sump water are often above the Enforcement Standard, and always above the PAL. However, all corresponding discharge samples indicate that the treatment system has been fully effective in removing Perc from the water prior to discharge into the stormwater sewer system. None of the discharge samples are reported with a detectable concentration of Perc.

Monthly sampling of the sump water influent and system effluent discharge will continue. The discharge sample results are submitted electronically to WDNR, as required by the WPDES permit.

## 5.0 SUMMARY AND SCHEDULE

- The Perc concentrations observed in monitoring well MW-5 have exceeded the Enforcement Standard since February 2016. Though the Perc concentrations have remained above the Enforcement Standard, the chemical injection activities performed in July 2018 and August 2019 in the vicinity of MW-5 have helped reduce the mass of Perc contamination. The Perc groundwater concentrations in MW-5 have remained relatively stable since that time. Quarterly monitoring of Perc concentrations in MW-5 will be continued until closure of the Site is approved.
- Sampling of the Ace Hardware sump water indicates influent Perc concentrations above the Enforcement Standard, although all effluent discharge samples from the treatment system are below detectable concentrations. Sump water influent and effluent sampling will continue on a monthly basis, as required.
- PAH contamination continues to be observed in MW-3 and MW-4, particularly the constituents Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene. All other PAH constituents are typically observed at concentrations below the PALs. The site-wide presence of coal and cinder fill material remaining from the historical use of the property are believed to contribute to the observed groundwater impact, since a large portion of the Site exhibits low-level PAH soil contamination. Quarterly monitoring of PAH concentrations in MW-3 and MW-4 will be continued until closure of the Site is approved.
  - The February 2022 sampling of monitoring wells MW-601 and MW-602 (east and west of MW-3) verify low-level PAH concentrations in the groundwater within the southern portion of the Site, but that the elevated PAH in concentrations are isolated to monitoring well MW-3. The October 2022 sampling results indicate concentrations of Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene decreased from those observed in August 2022 and are comparable to those observed in October 2019.
  - A free-product petroleum layer was identified in early 2022 in MW-4 (which was installed near a former heating oil UST). Manual recovery efforts were promptly undertaken, extracting approximately 3.5-gallons. No additional measurable product thickness has been observed. If product is again observed in MW-4, further manual bailing will be performed. The October 2022 sampling results indicated an increase in groundwater concentrations, though the reported concentrations were consistent with the generally stable groundwater concentrations observed between October 2019 and May 2021. The presence and subsequent removal of the free-product appear to have contributed to the higher concentrations and variability observed between August 2021 and August 2022.

**APPENDIX A  
TABLES**

**Table A.1.A. Groundwater Analytical Table for Volatile Organic Compounds (mg/L)  
(Quarterly Groundwater Sampling Wells)**

Sample Location	Sample Date	Tetrachloroethene	Trichloroethene
MW-5	10/04/22	<u>0.019</u>	<0.00032
	08/05/22	<u>0.021</u>	0.00069 (J)
	04/11/22	<u>0.011</u>	<0.00032
	01/24/22	<u>0.021</u>	<b>0.00067</b>
	11/11/21	<u>0.024</u>	0.00034 (J)
	08/31/21	<u>0.021</u>	<0.00032
	05/09/21	<u>0.012</u>	<0.00032
	01/18/21	<u>0.01</u>	<0.00026
	10/12/20	<u>0.014</u>	0.00047
	07/14/20	<u>0.01</u>	<0.00026
	05/05/20	<u>0.0088</u>	<0.00026
	01/17/20	<u>0.0084</u>	0.00038 (J)
	10/24/19	<u>0.012</u>	0.00039 (J)
	09/05/19	<u>0.0153</u>	0.00038 (J)
	07/07/19	<u>0.0106</u>	0.00048 (J)
	04/29/19	<u>0.0114</u>	<b>0.00071 (J)</b>
	01/25/19	<u>0.0065</u>	<b>0.0027</b>
	10/11/18	<u>0.021</u>	0.00027 (J)
	07/30/18	<u>0.0086</u>	<0.00026
	04/07/18	<u>0.0203</u>	<0.00033
01/05/18	<u>0.0181</u>	<0.00033	
05/30/17	<u>0.0124</u>	<0.00033	
02/23/16	<u>0.0083</u>	<0.00033	
01/27/15	<u>0.0026</u>	<0.00033	
11/12/14 (TW-2)	<u>0.0026</u>	<0.00033	
<b>PAL<sup>1</sup></b>		<b>0.0005</b>	<b>0.0005</b>
<b>Enforcement Standard<sup>2</sup></b>		<b>0.005</b>	<b>0.005</b>

<sup>1</sup> – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

<sup>2</sup> – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification VOCs via USEPA Method SW8260

**Table A.1.B. Groundwater Analytical Table for Polynuclear Aromatics (mg/L)  
(Quarterly Groundwater Sampling Wells)**

Sample Location	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Naphthalene
MW-3	10/04/22	<u>0.011</u>	<u>0.02</u>	<u>0.013</u>	<0.000092
	08/05/22	<u>0.024</u>	<u>0.04</u>	<u>0.03</u>	<0.00036
	04/11/22	<u>0.026</u>	<u>0.061</u>	<u>0.056</u>	<0.00036
	01/24/22	<u>0.0095</u>	<u>0.017</u>	<u>0.013</u>	<0.00009
	11/11/21	<u>0.0008</u>	<u>0.0022</u>	<u>0.0015</u>	<0.000019
	08/31/21	<u>0.00021</u>	<u>0.0005</u>	<u>0.00036</u>	0.00005
	05/03/21	<u>0.0024</u>	<u>0.0054</u>	<u>0.005</u>	0.0001 (J)
	01/18/21	<u>0.0024</u>	<u>0.005</u>	<u>0.0028</u>	0.00013
	10/12/20	<u>0.0013</u>	<u>0.0027</u>	<u>0.0015</u>	0.0001
	07/14/20	<u>0.0012</u>	<u>0.0022</u>	<u>0.0014</u>	0.00003
	05/05/20	<u>0.0011</u>	<u>0.0023</u>	<u>0.0012</u>	<0.000018
	01/17/20	<u>0.0063</u>	<u>0.0104</u>	<u>0.0013</u>	0.0001
	10/24/19	<u>0.015</u>	<u>0.03</u>	<u>0.016</u>	0.00015
	07/07/19	<u>0.0019</u>	<u>0.0036</u>	<u>0.0026</u>	0.000019 (J)
	04/29/19	<u>0.115</u>	<u>0.209</u>	<u>0.13</u>	0.00035
	01/25/19	<u>0.00017</u>	<u>0.00034</u>	<u>0.00028</u>	0.000022 (J)
	10/11/18	<b>0.000024 (J)</b>	<b>0.000074</b>	<b>0.000079</b>	0.000032 (J)
	07/30/18	<u>0.00068</u>	<u>0.0013</u>	<u>0.00095</u>	0.000053 (J)
	04/07/18	<u>0.0019</u>	<u>0.0039</u>	<u>0.003</u>	0.000051
	01/05/18	<0.0000096	<b>0.000037</b>	<b>0.000047 (J)</b>	0.00046
05/30/17	<u>0.001</u>	<u>0.002</u>	<u>0.0015</u>	0.00012	
01/27/15	0.000011 (J)	0.00002 (J)	<b>0.00005</b>	<0.0000056	
11/13/14 (TW-5)	<u>0.0006</u>	<u>0.00077</u>	<u>0.00084</u>	0.00016	
<b>PAL<sup>1</sup></b>		<b>0.00002</b>	<b>0.00002</b>	<b>0.00002</b>	<b>0.017</b>
<b>Enforcement Standard<sup>2</sup></b>		<b>0.0002</b>	<b>0.0002</b>	<b>0.0002</b>	<b>0.1</b>

<sup>1</sup> – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

<sup>2</sup> – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PAHs via USEPA Method SW8270E by SIM

Note: Fluoranthene and Pyrene indicated an exceedance of the PALs during the April 29, 2019, and April 11, 2022, sampling events



**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)  
(Quarterly Groundwater Sampling Wells)**

Sample Location	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Naphthalene
MW-4	10/04/22	<u>&lt;0.00057</u>	<u>0.00073 (J)</u>	<u>0.0021 (J)</u>	0.016
	08/05/22	<u>&lt;0.00091</u>	<u>0.00014</u>	<u>0.00014</u>	0.0015
	04/11/22	<u>&lt;0.00039</u>	<u>&lt;0.00039</u>	<u>&lt;0.00053</u>	0.0022
	01/24/22	<u>&lt;0.018</u>	<u>&lt;0.018</u>	<u>&lt;0.025</u>	<b>0.037</b>
	11/11/21	<u>0.0024 (J)</u>	<u>0.0035 (J)</u>	<u>0.016</u>	<b>0.089</b>
	08/31/21	<u>&lt;0.0017</u>	<u>&lt;0.0017</u>	<u>&lt;0.0024</u>	0.01
	05/03/21	<u>0.0003 (J)</u>	<u>0.00061</u>	<u>0.0022</u>	0.0091
	01/18/21	<u>0.00013 (J)</u>	<u>0.00029</u>	<u>0.00082</u>	0.0055
	10/12/20	<u>0.00029 (J)</u>	<u>0.00065</u>	<u>0.0015</u>	0.007
	07/14/20	<u>0.00046 (J)</u>	<u>0.00098</u>	<u>0.0038</u>	<b>0.025</b>
	05/05/20	<u>0.0012 (J)</u>	<u>0.0032</u>	<u>0.005</u>	<b>0.035</b>
	01/17/20	<u>0.0031</u>	<u>0.0056</u>	<u>0.0074</u>	0.0074
	10/24/19	<u>0.00045</u>	<u>0.00086</u>	<u>0.0016</u>	0.0026
	07/07/19	<0.000037	<0.00002	<0.000046	0.0034
	04/29/19	<b>0.000041 (J)</b>	<b>0.000093</b>	<b>0.00017</b>	0.0014
	01/25/19	<0.0000095	0.000012 (J)	<b>0.000033 (J)</b>	0.00078
	10/11/18	<u>&lt;0.00029</u>	<u>0.000022</u>	<u>0.000084 (J)</u>	0.00081
	07/30/18	<u>&lt;0.00048</u>	<u>&lt;0.00026</u>	<u>&lt;0.00006</u>	0.0015
	04/07/18	<0.0000095	0.0000096 (J)	<b>0.000031 (J)</b>	0.0022
	01/05/18	<u>&lt;0.0002</u>	<u>0.00022 (J)</u>	<u>0.001 (J)</u>	<b>0.0151</b>
05/30/17	<u>&lt;0.00049</u>	<u>&lt;0.00027</u>	<u>0.0018 (J)</u>	<b>0.0243</b>	
02/23/16	0.000006	0.000014 (J)	0.000017 (J)	0.00047	
01/27/15	0.000017 (J)	<b>0.000043 (J)</b>	<b>0.000042 (J)</b>	0.00027	
11/13/14 (TW-6)	0.0000053 (J)	0.0000093 (J)	<b>0.000021 (J)</b>	0.0022	
<b>PAL<sup>1</sup></b>		<b>0.00002</b>	<b>0.00002</b>	<b>0.00002</b>	<b>0.017</b>
<b>Enforcement Standard<sup>2</sup></b>		<b>0.0002</b>	<b>0.0002</b>	<b>0.0002</b>	<b>0.1</b>

<sup>1</sup> – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

<sup>2</sup> – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

\* – Limit of detection reported greater than most stringent applicable standard; “non-detect” concentration not taken as exceedance per NR140.14(3)(a)

NL – Not Listed in Wisconsin Administrative Code

PAHs via USEPA Method SW8270E by SIM

Note: Fluorene indicated an exceedance of the PAL during the May 5, 2020; Fluorene and Pyrene indicated exceedances during the November 11, 2021, sampling event

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)  
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)		PAL <sup>1</sup>	ES <sup>2</sup>
	MW-601 (02/03/22)	MW-602 (02/04/22)		
Acenaphthene	0.000056	<0.000012	NL	NL
Acenaphthylene	0.000015	<0.000011	NL	NL
Anthracene	0.00012	<0.000017	0.6	3
Benzo(a)anthracene	0.00019	0.000025 (J)	NL	NL
Benzo(a)pyrene	<b>0.00015</b>	<b>0.000035 (J)</b>	0.00002	0.0002
Benzo(b)fluoranthene	<b>0.00016</b>	<b>0.000057</b>	0.00002	0.0002
Benzo(g,h,i)perylene	0.00018	0.000055	NL	NL
Benzo(k)fluoranthene	0.000064	0.00002	NL	NL
Chrysene	<b>0.00035</b>	<b>0.000073</b>	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000048	0.000016	NL	NL
Fluoranthene	0.00032	0.00011	0.08	0.4
Fluorene	0.000068	0.000021	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.000081	0.000028 (J)	NL	NL
1-Methylnaphthalene	0.00013	0.000024 (J)	NL	NL
2-Methylnaphthalene	0.000093	0.000017 (J)	NL	NL
Naphthalene	0.000033	0.000018	0.017	0.1
Phenanthrene	0.0002	0.000087	NL	NL
Pyrene	0.00096	0.00011	0.05	0.25

<sup>1</sup> – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

<sup>2</sup> – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

\* – Limit of detection reported greater than most stringent applicable standard; “non-detect” concentration not taken as exceedance per NR140.14(3)(a)

NL – Not Listed in Wisconsin Administrative Code

PAHs via USEPA Method SW8270E by SIM

**Table A.5. Ace Hardware Sump Water Analytical Table for Tetrachlorethene (mg/L)**

Sample Location	Sample Date	Tetrachloroethene
Sump	10/03/22	<u>0.011</u>
	09/13/22	<u>0.0091</u>
	08/01/22	<u>0.01</u>
	07/14/22	<u>0.01</u>
	06/02/22	<u>0.012</u>
	05/06/22	<u>0.006</u>
	04/01/22	<u>0.0041</u>
	03/03/22	<u>0.01</u>
	02/01/22	<u>0.01</u>
	01/18/22	<u>0.013</u>
	12/06/21	<u>0.013</u>
	11/05/21	<u>0.014</u>
	10/04/21	<u>0.016</u>
	09/10/21	<u>0.015</u>
	08/06/21	<u>0.016</u>
	07/02/21	<u>0.014</u>
	06/14/21	<u>0.013</u>
	05/03/21	<u>0.016</u>
	04/06/21	<u>0.012</u>
	03/08/21	<u>0.01</u>
	02/02/21	<u>0.014</u>
	01/12/21	<u>0.005</u>
	12/09/20	<u>0.0048</u>
	11/12/20	<u>0.0068</u>
	10/12/20	<u>0.009</u>
	09/03/20	<u>0.0065</u>
	08/17/20	<u>0.01</u>
	07/14/20	<u>0.0078</u>
	06/03/20	<u>0.0068</u>
	05/05/20	<u>0.0054</u>
	04/06/20	<u>0.005</u>
	03/10/20	<u>0.0063</u>
02/03/20	<u>0.006</u>	
01/07/20	<u>0.0065</u>	
12/03/19	<u>0.0068</u>	
11/04/19	<u>0.008</u>	
10/02/19	<u>0.0069</u>	
09/05/19	<u>0.0076</u>	
08/02/19	<u>0.005</u>	
07/19/19	<u>0.0062</u>	
06/25/19 (first monthly)	<u>0.0054</u>	
06/06/19 (week 4)	<u>0.0069</u>	
05/29/19 (week 3)	<u>0.0043</u>	
05/23/19 (week 2)	<u>0.0042</u>	
05/15/19 (week 1)	<u>0.0093</u>	
02/04/19	<u>0.0064</u>	
01/05/18	<u>0.0082</u>	
06/04/17	<u>0.006</u>	
<b>PAL<sup>1</sup></b>		<b>0.0005</b>
<b>Enforcement Standard<sup>2</sup></b>		<b>0.005</b>

<sup>1</sup> – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

<sup>2</sup> – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

NOTE – All other VOCs reported below the Limit of Detection

VOCs via USEPA Method SW8260

**Table A.6. Water Level Elevations**

<b>Monitoring Well</b>	<b>Top of Casing Elevation*</b>	<b>Date</b>	<b>Measured Depth to Groundwater (ft)</b>	<b>Relative Groundwater Elevation (ft)</b>
MW-1	98.08 (2022 survey)	10/03/22	3.05	95.03
		08/02/22	2.69	95.39
		04/11/22	1.18	96.90
		02/03/22	5.52	92.56
		01/24/22	4.22	93.83
	99.13 (2015 survey)	11/11/21	3.97	95.16
		08/31/21	3.75	95.38
		05/03/21	2.97	96.16
		01/18/21	3.34	95.79
		10/12/20	Obstructed	--
		07/14/20	1.79	97.34
		05/05/20	1.80	97.33
		01/17/20	2.74	96.39
		10/24/19	3.07	96.06
		07/07/19	3.46	95.67
		04/29/19	2.35	96.78
		01/25/19	4.65	94.48
		10/11/18	1.66	97.47
		07/30/18	3.32	95.81
		04/08/18	2.24	96.89
02/27/18	1.58	97.55		
05/30/17	2.17	96.96		
04/24/15	1.46	97.67		
03/30/15	1.98	97.15		
01/27/15	3.93	95.20		
MW-2	99.32 (2022 survey)	10/03/22	7.46	91.86
		08/02/22	6.95	92.37
		04/11/22	6.57	92.75
		02/03/22	9.32	90.00
		01/24/22	8.20	91.12
	100.75 (2015 survey)	11/11/21	7.99	92.76
		08/31/21	7.70	93.05
		05/03/21	7.55	93.20
		01/18/21	8.12	92.63
		10/12/20	7.82	92.93
		07/14/20	6.36	94.39
		05/05/20	6.24	94.51
		01/17/20	6.83	93.92
		10/24/19	Obstructed	--
		07/07/19	7.51	93.24
		04/29/19	8.47	92.28
		01/25/19	8.42	92.33
		10/11/18	6.45	94.30
		07/30/18	7.45	93.30
		04/08/18	8.36	92.39
02/27/18	8.54	92.21		
05/30/17	7.95	92.80		
04/24/15	7.21	93.54		
03/30/15	8.01	92.74		
01/27/15	8.60	92.15		

**Table A.6. Water Level Elevations**

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Relative Groundwater Elevation (ft)
MW-3	98.97 (2022 survey)	10/03/22	5.71	93.26
		08/02/22	<1	≈98.97
		04/11/22	1.85	91.12
		02/03/22	5.20	93.77
		01/24/22	4.90	94.07
	100.05 (2015 survey)	11/11/21	4.12	95.93
		08/31/21	4.37	95.68
		05/03/21	3.45	96.60
		01/18/21	4.50	95.55
		10/12/20	4.25	95.80
		07/14/20	3.37	96.68
		05/05/20	2.27	97.78
		01/17/20	3.20	96.85
		10/24/19	3.61	96.44
		07/07/19	3.73	96.32
		04/29/19	2.61	97.44
		01/25/19	4.44	95.61
		10/11/18	2.35	97.70
		07/30/18	3.62	96.43
		04/08/18	2.53	97.52
02/27/18	2.43	97.62		
05/30/17	2.45	97.60		
04/24/15	2.27	97.78		
03/30/15	2.73	97.32		
01/27/15	4.46	95.59		
MW-4	99.75 (2022 survey)	10/03/22	5.59	94.16
		08/02/22	5.75	94.00
		04/11/22	5.20	94.55
		02/03/22	8.86	90.89
		01/24/22	7.75	92.00
	100.57 (2015 survey)	11/11/21	6.78	93.79
		08/31/21	6.51	94.06
		05/03/21	6.19	94.38
		01/18/21	6.51	94.06
		10/12/20	6.65	93.92
		07/14/20	5.34	95.23
		05/05/20	5.07	95.50
		01/17/20	6.21	94.36
		10/24/19	6.14	94.43
		07/07/19	6.98	93.59
		04/29/19	7.30	93.27
		01/25/19	6.88	93.69
		10/11/18	5.43	95.14
		07/30/18	6.91	93.66
		04/08/18	7.26	93.31
02/27/18	7.23	93.34		
05/30/17	6.38	94.19		
04/24/15	5.94	94.63		
03/30/15	7.04	93.53		
01/27/15	6.53	94.04		

**Table A.6. Water Level Elevations**

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Relative Groundwater Elevation (ft)
MW-5	99.36 (2022 survey)	10/03/22	6.21	93.15
		08/02/22	6.24	93.12
		04/11/22	5.96	93.40
		02/03/22	7.42	91.94
		01/24/22	7.13	92.23
	100.24 (2015 survey)	11/11/21	6.69	93.55
		08/31/21	6.48	93.76
		05/03/21	6.25	93.99
		01/18/21	5.90	94.34
		10/12/20	6.30	93.94
		07/14/20	5.84	94.39
		05/05/20	5.83	94.41
		01/17/20	5.87	94.37
		10/24/19	5.98	94.26
		07/07/19	6.25	93.99
		04/29/19	6.33	93.91
		01/25/19	6.35	93.89
		10/11/18	5.85	94.39
		07/30/18	6.19	94.05
		04/08/18	6.27	93.97
02/27/18	6.15	94.09		
05/30/17	5.96	94.28		
04/24/15	5.92	94.32		
03/30/15	6.26	93.98		
01/27/15	6.50	93.74		
MW-201	99.43 (2022 survey)	10/03/22	7.50	91.93
		08/02/22	7.45	91.98
		04/11/22	6.48	92.96
		02/03/22	8.67	90.76
		01/24/22	8.48	90.95
	100.10 (2015 survey)	11/11/21	8.12	91.98
		08/31/21	7.78	92.32
		05/03/21	7.56	92.54
		01/18/21	8.24	91.86
		10/12/20	7.95	92.15
		07/14/20	7.11	92.29
		05/05/20	6.44	93.66
		01/17/20	7.00	93.10
		10/24/19	6.57	93.53
		07/07/19	6.72	93.38
		04/29/19	6.82	93.28
		01/25/19	6.88	93.22
		10/11/18	6.22	93.88
		07/30/18	6.69	93.41
		04/08/18	6.79	93.34
02/27/18	6.46	93.64		
05/30/17	6.26	93.84		
04/24/15	5.91	94.19		
03/30/15	6.28	93.82		
01/27/15	Not Installed	Not Installed		

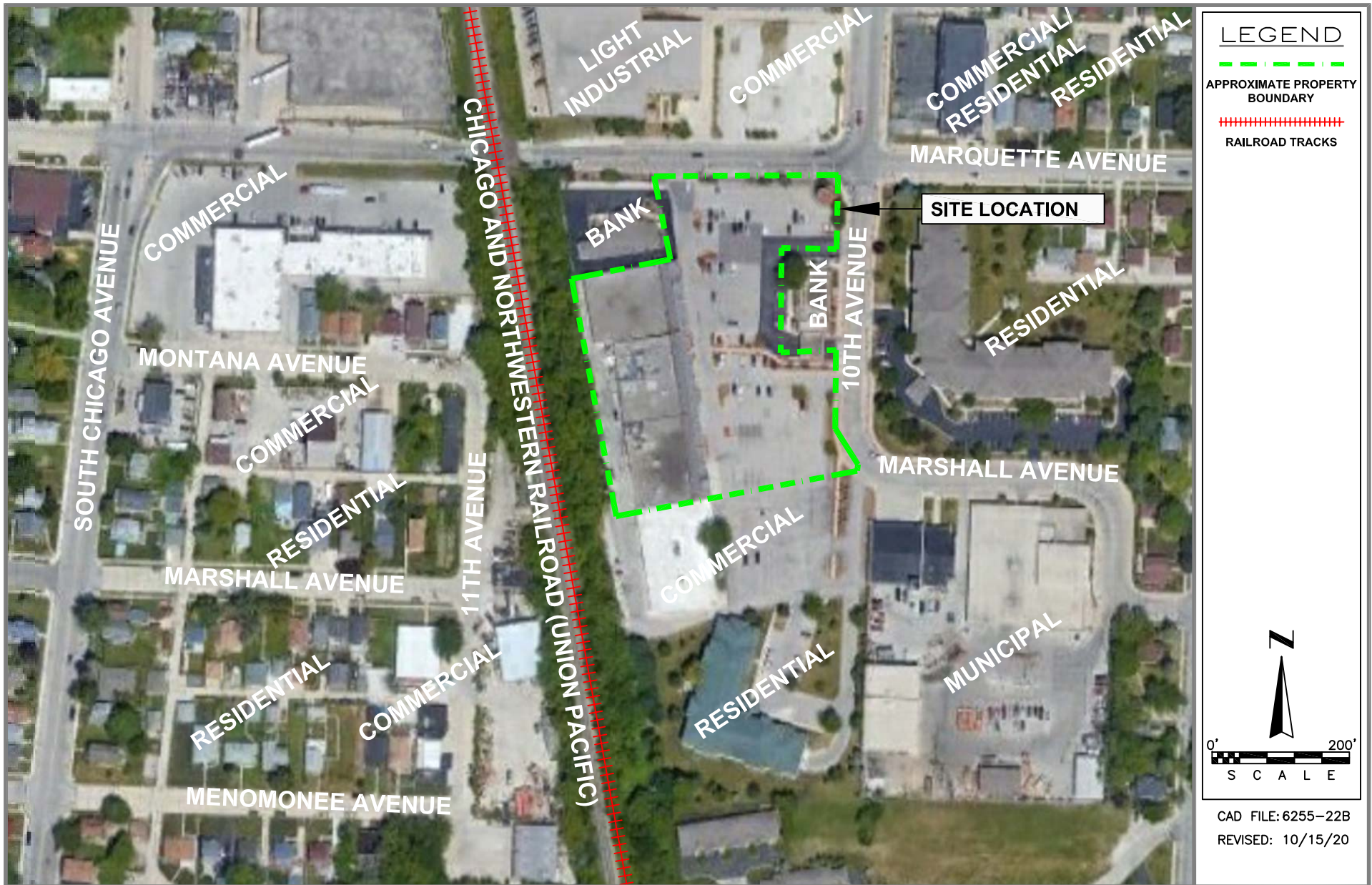
**Table A.6. Water Level Elevations**

<b>Monitoring Well</b>	<b>Top of Casing Elevation*</b>	<b>Date</b>	<b>Measured Depth to Groundwater (ft)</b>	<b>Relative Groundwater Elevation (ft)</b>
MW-600	97.72 (2022 survey)	10/03/22	7.58	90.14
		08/02/22	8.76	88.96
		04/11/22	Inaccessible	--
		02/03/22	9.60	88.12
		01/24/22	8.80	88.92
MW-601	98.11 (2022 survey)	10/03/22	8.81	89.30
		08/02/22	9.09	89.02
		04/11/22	9.27	88.84
		02/03/22	10.41	87.70
		01/24/22	10.12	87.99
MW-602	99.18 (2022 survey)	10/03/22	9.12	90.06
		08/02/22	9.22	89.96
		04/11/22	8.36	90.82
		02/03/22	10.30	88.88
		01/24/22	10.21	88.97
MW-603	99.52 (2022 survey)	10/03/22	5.51	94.01
		08/02/22	5.52	94.00
		04/11/22	5.14	94.38
		02/03/22	6.54	92.98
		01/24/22	6.42	93.10

\* – Relative Elevation compared to a generic 100-ft on-site datum. Static water level measurements collected prior to 2022 compared to survey data from on January 27 and March 30, 2015. Static water level measurements collected beginning in January 2022 compared to a complete resurvey performed on February 1, 2022.

**APPENDIX B**  
**FIGURES**

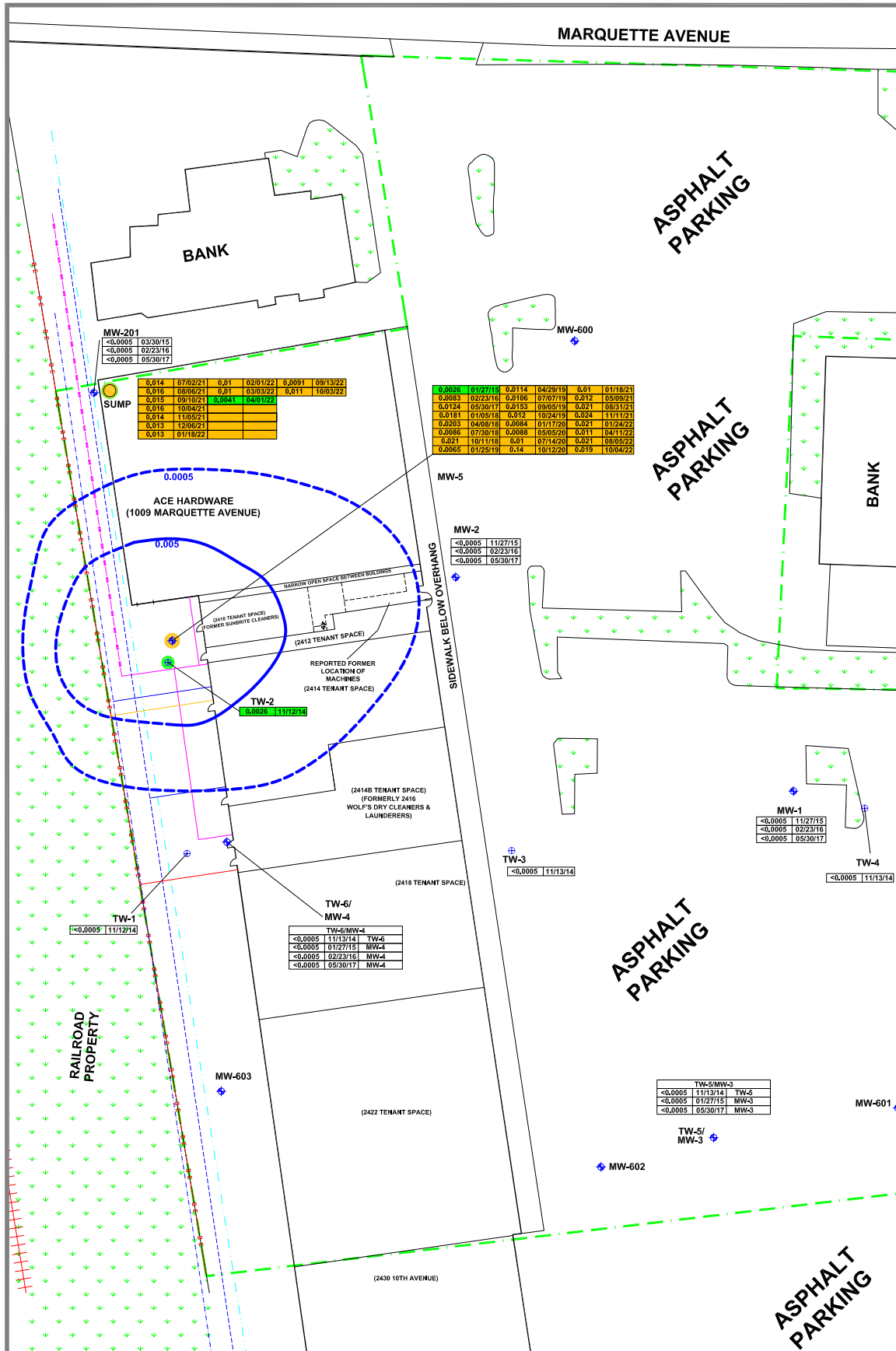




**DAI**  
ENVIRONMENTAL

SUNRISE SHOPPING CENTER  
2410-2424 10TH AVENUE  
1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.1.b.1  
DETAILED SITE MAP WITH AERIAL VIEW  
OF SITE AND SURROUNDING PROPERTY  
(2019 AERIAL TAKEN FROM GOOGLE EARTH)



### LEGEND

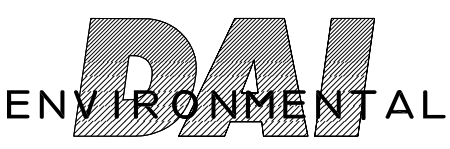
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- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED PAL EXCEEDANCE FOR PERC
- OBSERVED PAL AND ES EXCEEDANCE FOR PERC

PERC CONC. mg/L	SAMPLE DATE
<0.0005	11/27/15
<0.0005	02/23/16
<0.0005	05/30/17

- SITE INVESTIGATION DEFINED PERC ISOCONCENTRATION LINE (mg/L)
- SITE INVESTIGATION ESTIMATED PERC ISOCONCENTRATION LINE (mg/L)

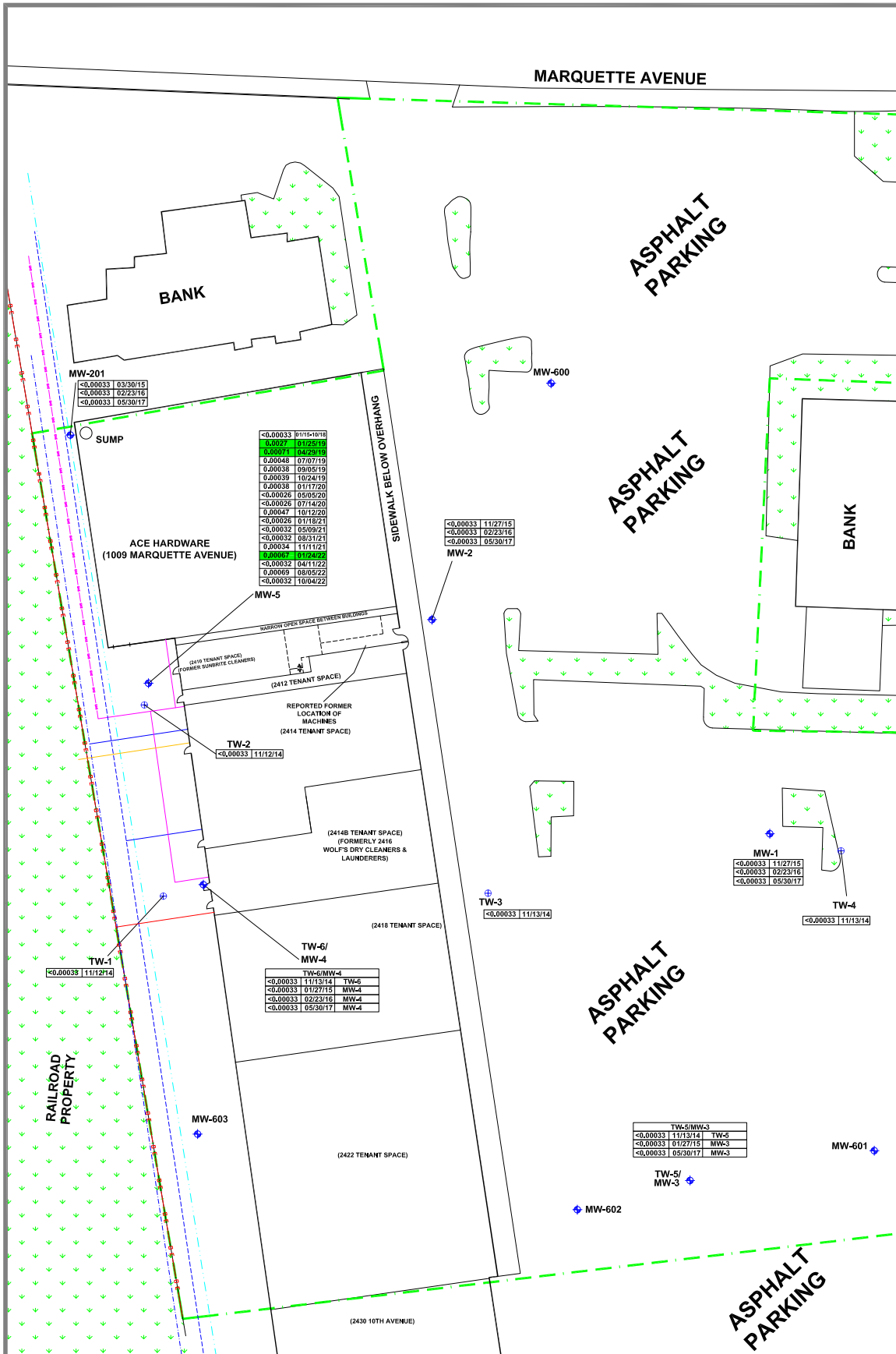
SCALE

CAD FILE: 6255-212C  
REVISED: 10/13/22



**SUNRISE SHOPPING CENTER**  
 2410-2424 10TH AVENUE  
 1009 MARQUETTE AVENUE  
 SOUTH MILWAUKEE, WISCONSIN

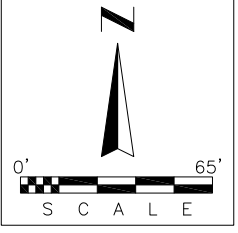
**FIGURE B.3.b.1a**  
**GROUNDWATER**  
**ISOCONCENTRATION**  
**(PERC)**



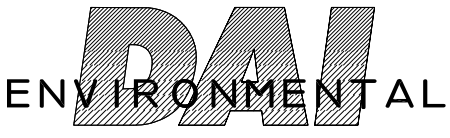
**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410)**  
UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED PAL EXCEEDANCE FOR TCE

TCE CONC. mg/L	SAMPLE DATE
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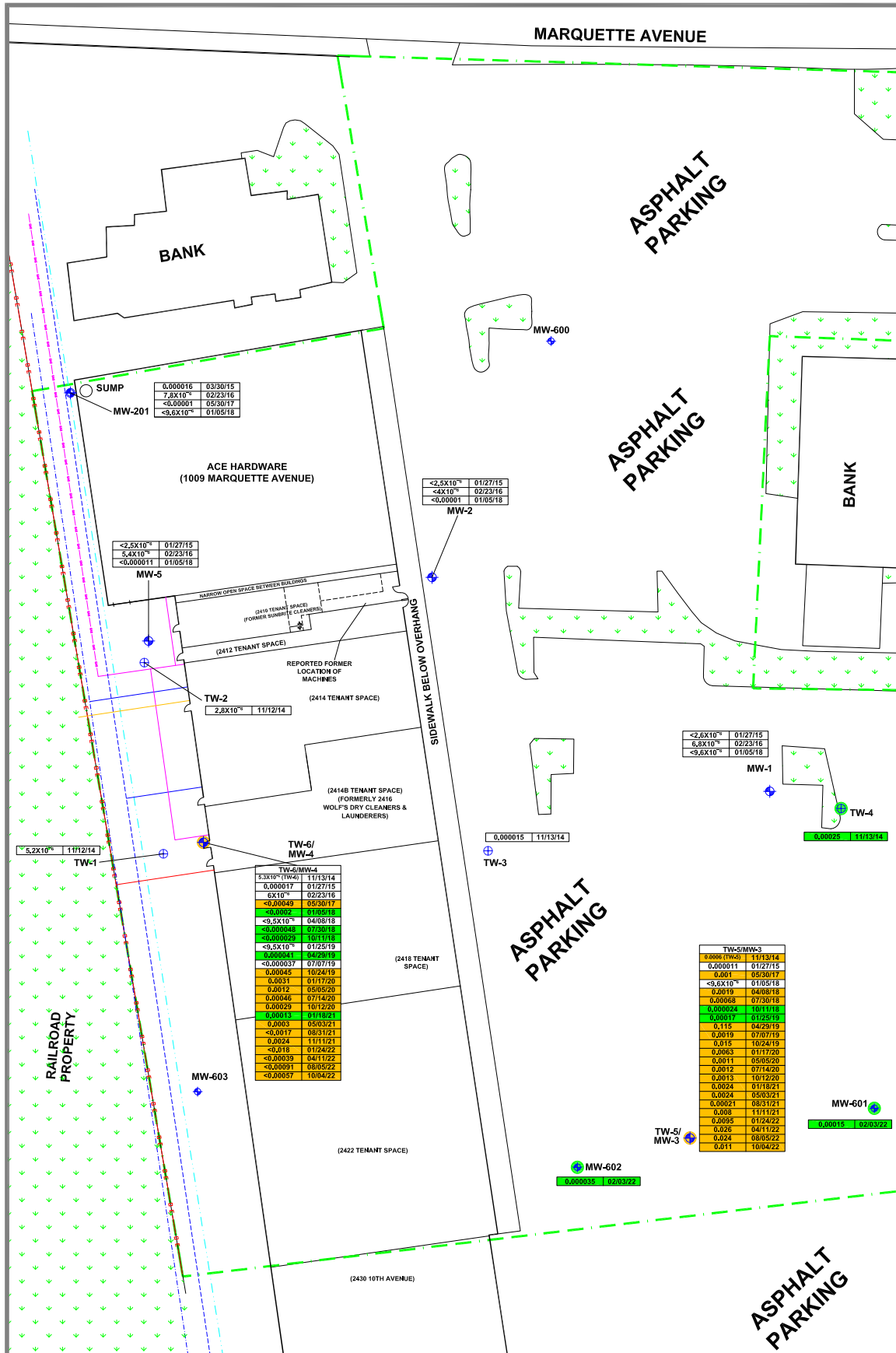


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REVISED: 10/13/22



**SUNRISE SHOPPING CENTER**  
2410-2424 10TH AVENUE  
1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN

**FIGURE B.3.b.1b**  
**GROUNDWATER**  
**ISOCONCENTRATION**  
**(TCE)**



### LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- + MONITORING WELL LOCATION
- ⊕ SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
<2.6X10 <sup>-6</sup>	01/27/15
6.8X10 <sup>-6</sup>	02/23/16
<9.6X10 <sup>-6</sup>	01/05/18

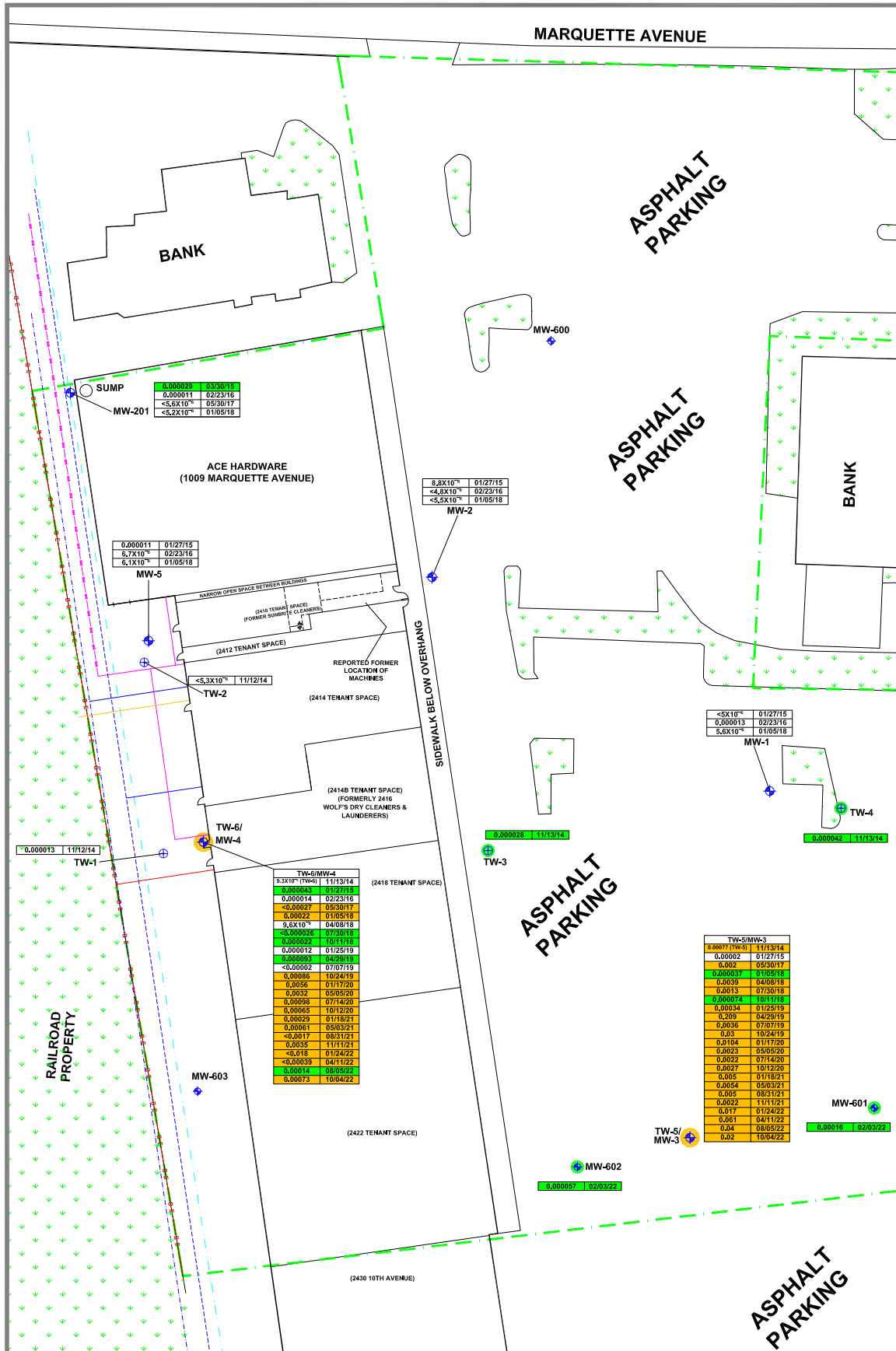
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REVISED: 10/13/22

# DAI

## ENVIRONMENTAL

SUNRISE SHOPPING CENTER  
2410-2424 10TH AVENUE  
1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.2a  
GROUNDWATER  
ISOCONCENTRATION  
(BENZO(A)PYRENE)

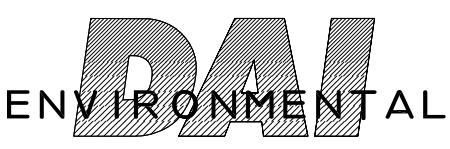


### LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

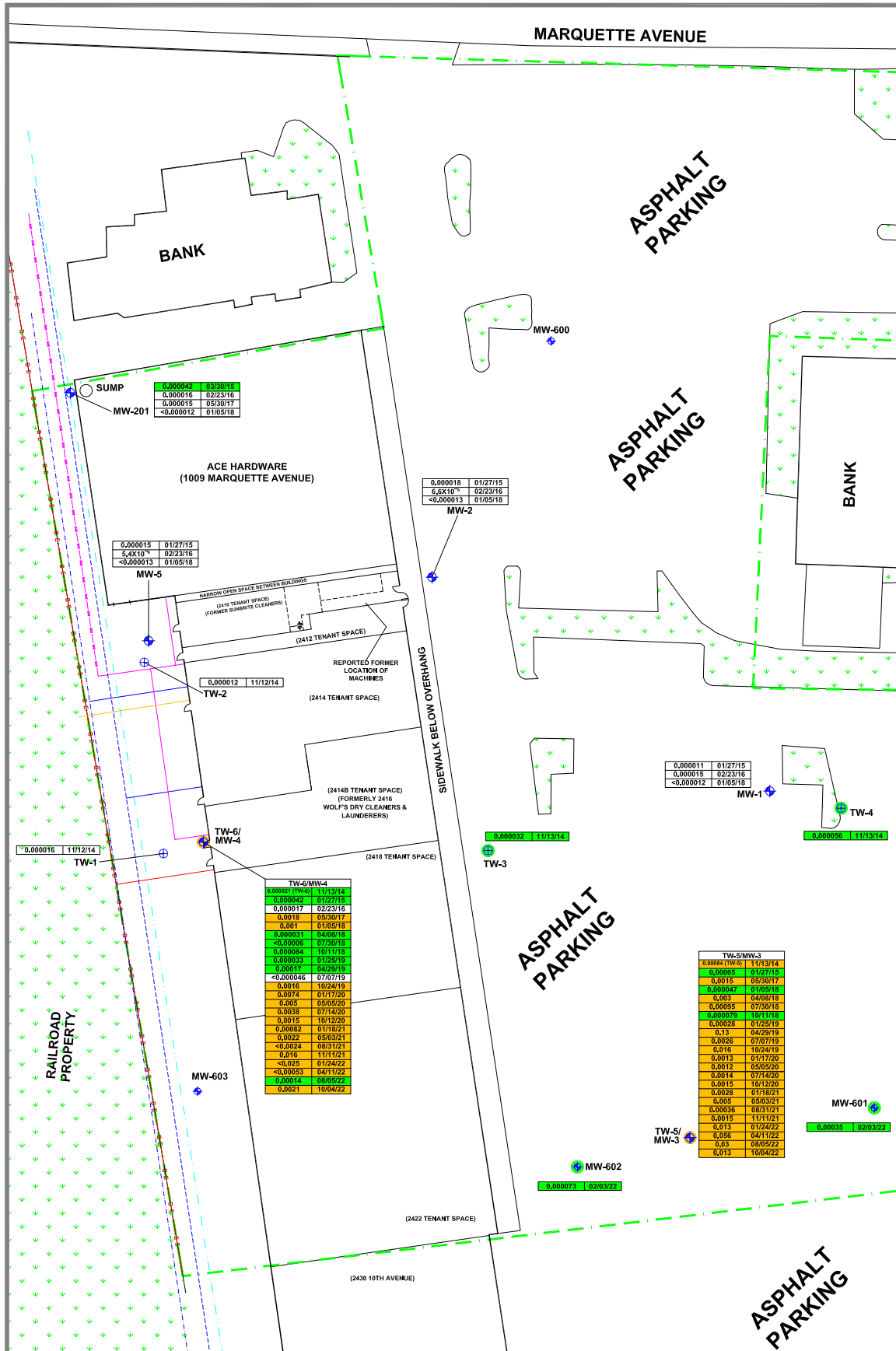
PAH CONC. mg/L	SAMPLE DATE
0.000013	11/12/14
0.000011	02/23/16
0.000011	05/30/17
0.000011	01/05/18
0.000011	01/27/15
6.7X10 <sup>-6</sup>	02/23/16
6.1X10 <sup>-6</sup>	01/05/18
8.8X10 <sup>-6</sup>	01/27/15
4.8X10 <sup>-6</sup>	02/23/16
5.5X10 <sup>-6</sup>	01/05/18
0.000013	02/23/16
5.6X10 <sup>-6</sup>	01/05/18
0.000028	11/12/14
0.000042	11/13/14
0.000043	11/13/14
0.000014	02/23/16
0.000022	01/05/18
9.6X10 <sup>-6</sup>	04/08/18
0.000022	10/11/18
0.000012	01/25/19
0.000022	04/29/19
-0.000022	07/07/19
0.000086	10/24/19
0.000056	01/17/20
0.000032	05/05/20
0.000098	07/14/20
0.000065	10/12/20
0.000029	01/15/21
0.000051	05/03/21
-0.00117	08/31/21
0.00033	11/11/21
-0.018	01/24/22
-0.00039	04/11/22
0.000014	08/05/22
0.000073	10/04/22
0.000013	02/23/16
0.000022	01/05/18
0.000037	01/05/18
0.00039	04/05/18
0.0013	07/30/18
0.000074	10/11/18
0.000034	01/25/19
0.209	04/29/19
0.0036	07/07/19
0.83	10/24/19
0.0104	01/17/20
0.0023	05/05/20
0.0022	07/14/20
0.0027	10/12/20
0.005	01/18/21
0.0054	05/03/21
0.005	08/31/21
0.0022	11/11/21
0.017	01/24/22
0.061	04/11/22
0.04	08/05/22
0.02	10/04/22
0.000016	02/03/22

CAD FILE: 6255-216C  
REVISED: 10/13/22



**SUNRISE SHOPPING CENTER**  
2410-2424 10TH AVENUE  
1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN

**FIGURE B.3.b.2b**  
**GROUNDWATER**  
**ISOCONCENTRATION**  
**(BENZO(B)FLUORANTHENE)**



### LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
0.000011	01/27/15
0.000015	02/23/16
<0.000012	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000016	01/27/15
5.4x10 <sup>-6</sup>	02/23/16
<0.000013	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000012	01/27/15
6.6x10 <sup>-6</sup>	02/23/16
<0.000013	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000012	11/12/14

PAH CONC. mg/L	SAMPLE DATE
0.000016	11/12/14

PAH CONC. mg/L	SAMPLE DATE
0.000011	01/27/15
0.000015	02/23/16
<0.000012	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000032	11/12/14

PAH CONC. mg/L	SAMPLE DATE
0.000056	11/12/14

PAH CONC. mg/L	SAMPLE DATE
0.000032	02/03/22

PAH CONC. mg/L	SAMPLE DATE
0.000035	02/03/22

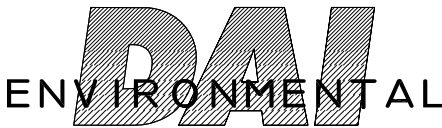
PAH CONC. mg/L	SAMPLE DATE
0.000044	01/27/15
0.000047	01/05/18
0.003	04/08/19
0.00095	07/30/19
0.000079	10/11/15
0.00028	01/25/19
0.3	04/29/19
0.0026	07/07/19
0.016	10/24/19
0.0013	01/11/20
0.0012	05/05/20
0.0014	07/14/20
0.0015	10/12/20
0.0009	01/18/21
0.005	05/03/21
0.00036	08/31/21
0.0015	11/11/21
0.013	01/24/22
0.056	04/11/22
0.3	08/05/22
0.013	10/04/22

PAH CONC. mg/L	SAMPLE DATE
0.000017	02/23/16
0.0018	05/30/17
0.001	01/05/18
0.000031	04/08/19
<0.000006	07/30/19
0.000084	10/11/19
0.000033	01/25/19
0.00017	04/29/19
<0.000046	07/07/19
0.0016	10/24/19
0.0014	01/11/20
0.005	05/05/20
0.0038	07/14/20
0.0015	10/12/20
0.00082	01/18/21
0.0022	05/03/21
<0.00024	08/31/21
0.016	11/11/21
<0.025	01/24/22
<0.00053	04/11/22
0.00014	08/05/22
0.0021	10/04/22

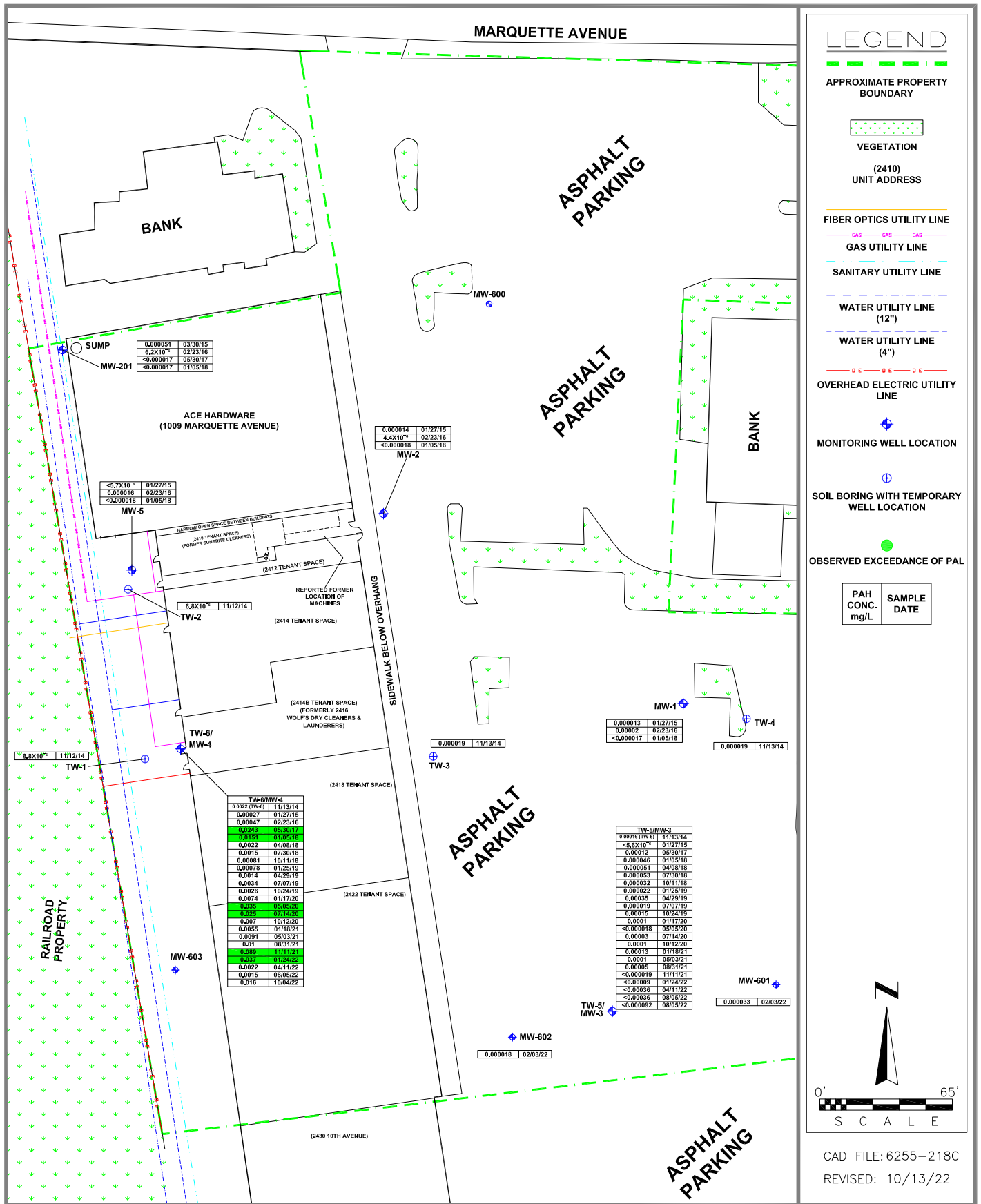
  

CAD FILE: 6255-217C  
REVISED: 10/13/22



SUNRISE SHOPPING CENTER  
2410-2424 10TH AVENUE  
1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN

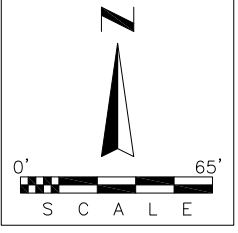
FIGURE B.3.b.2c  
GROUNDWATER  
ISOCONCENTRATION  
(CHRYSENE)



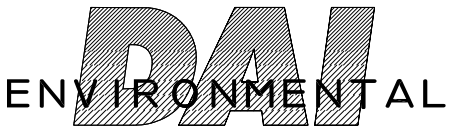
### LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410)**  
UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL

PAH CONC. mg/L	SAMPLE DATE
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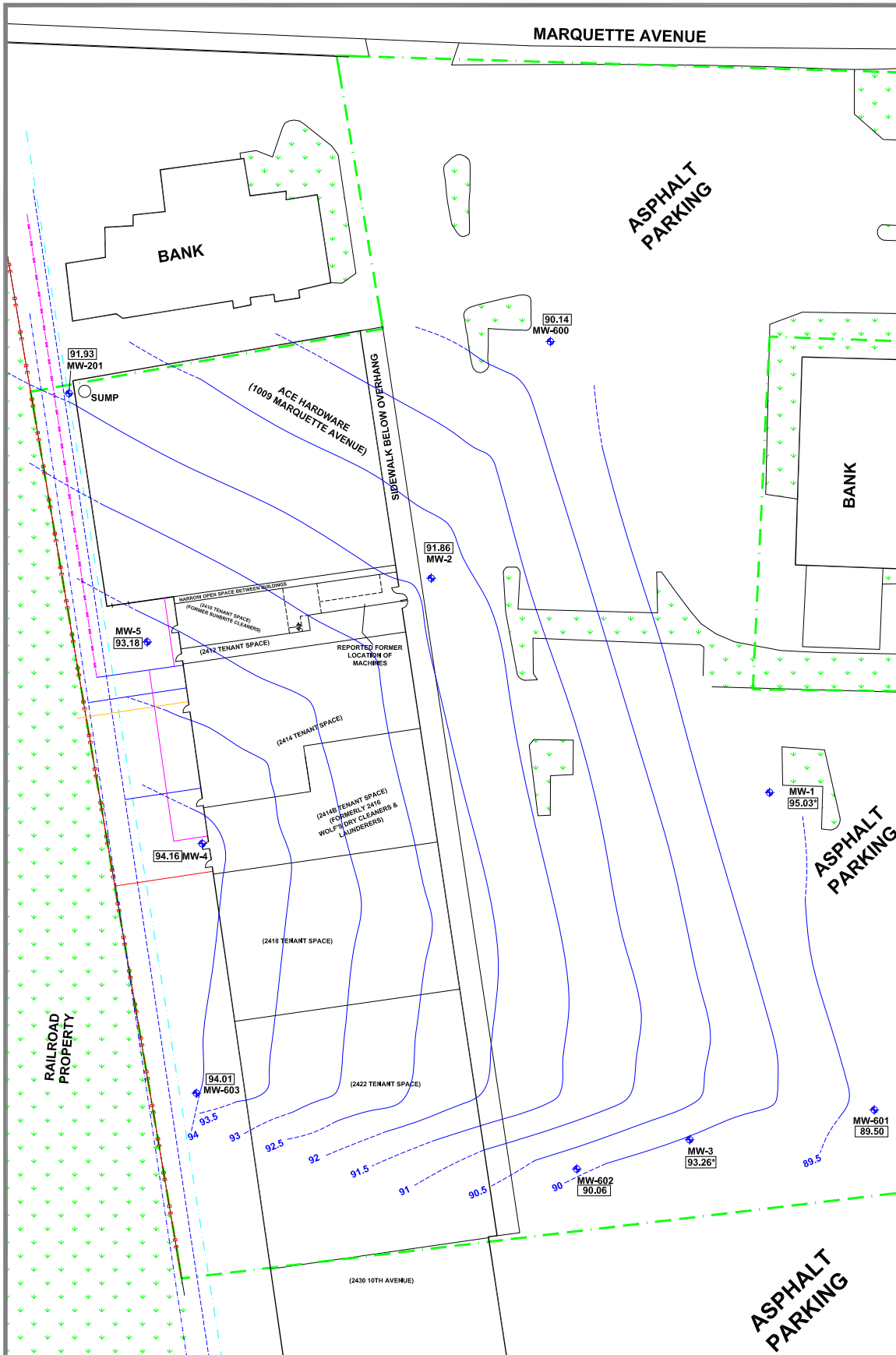


CAD FILE: 6255-218C  
REVISED: 10/13/22



**SUNRISE SHOPPING CENTER**  
2410-2424 10TH AVENUE  
1009 MARQUETTE AVENUE  
SOUTH MILWAUKEE, WISCONSIN

**FIGURE B.3.b.2d**  
**GROUNDWATER**  
**ISOCONCENTRATION**  
**(NAPHTHALENE)**



### LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- 96.78 GROUNDWATER ELEVATION
- 96.78 NOT USED IN INTERPOLATION
- POTENTIOMETRIC SURFACE
- INFERRED POTENTIOMETRIC SURFACE

S C A L E

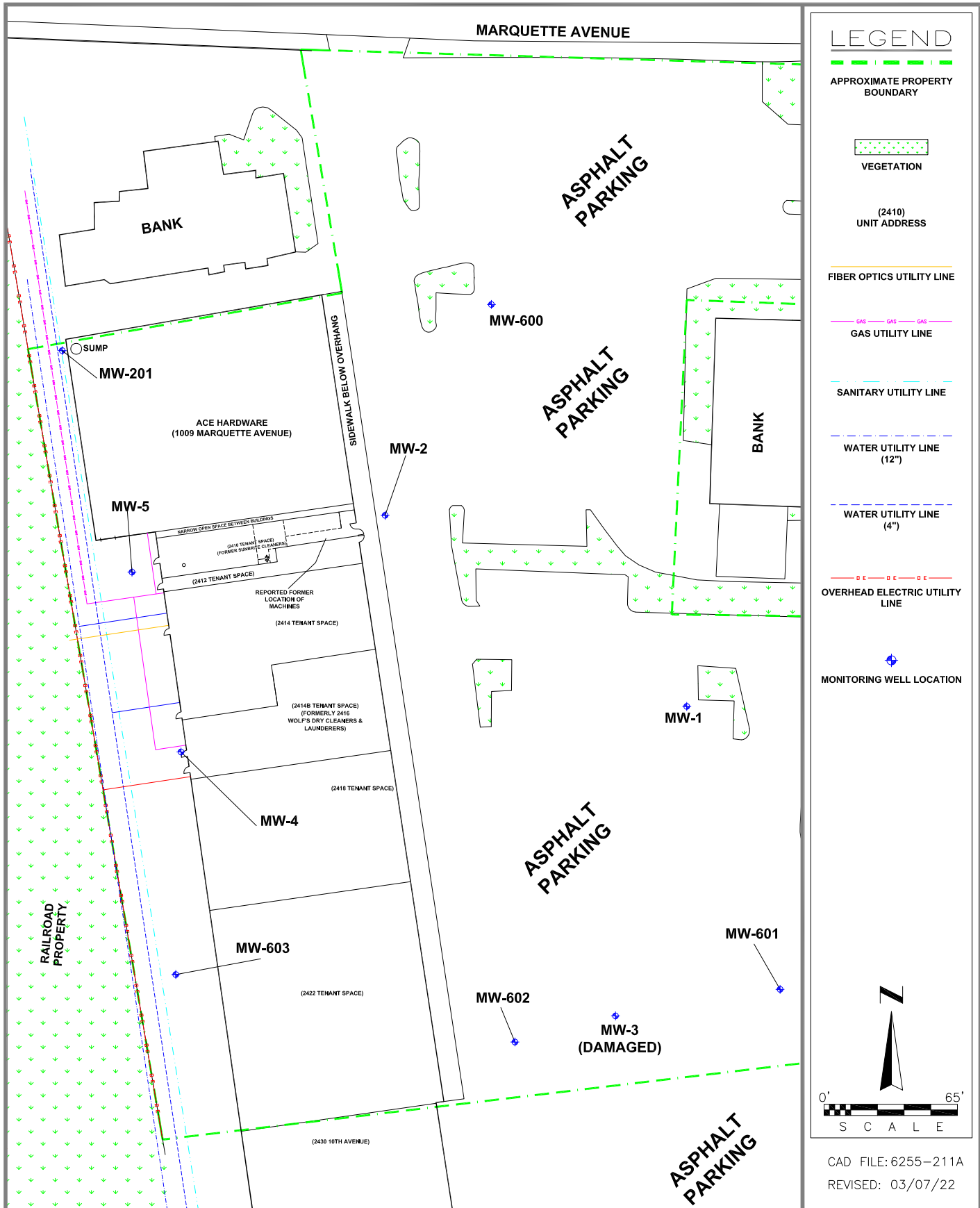
CAD FILE: 6255-224  
 REVISED: 10/24/22

**DAI**  
 ENVIRONMENTAL

**SUNRISE SHOPPING CENTER**  
 2410-2424 10TH AVENUE  
 1009 MARQUETTE AVENUE  
 SOUTH MILWAUKEE, WISCONSIN

**FIGURE B.3.c.24**  
**GROUNDWATER FLOW DIRECTION**  
**(OCTOBER 3, 2022)**





**APPENDIX C.1.E  
LABORATORY ANALYTICAL REPORT  
(FOURTH QUARTER 2022)**

October 11, 2022

Chris Cailles  
DAI Environmental  
Polo Park Business Center  
27834 Irma Lee Circle  
Lake Forest, IL 60045

RE: Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



Steven Mleczko  
steve.mleczko@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Jenny Rovzar, DAI



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

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### **Pace Analytical Services Green Bay**

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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40252602001	MW-3	Water	10/04/22 12:30	10/06/22 08:10
40252602002	MW-4	Water	10/04/22 13:30	10/06/22 08:10
40252602003	MW-5	Water	10/04/22 14:30	10/06/22 08:10

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### SAMPLE ANALYTE COUNT

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40252602001	MW-3	EPA 8270E by SIM	RJN	20
40252602002	MW-4	EPA 8270E by SIM	RJN	20
40252602003	MW-5	EPA 8260	EIB	64

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40252602001</b>	<b>MW-3</b>					
EPA 8270E by SIM	Acenaphthene	0.00011J	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Acenaphthylene	0.00059	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Anthracene	0.00089	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Benzo(a)anthracene	0.0043	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Benzo(a)pyrene	0.011	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.020	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.014	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.0072	mg/L	0.00023	10/10/22 16:26	L2
EPA 8270E by SIM	Chrysene	0.013	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.0023	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Fluoranthene	0.022	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Fluorene	0.00024	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.011	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Phenanthrene	0.0069	mg/L	0.00023	10/10/22 16:26	
EPA 8270E by SIM	Pyrene	0.015	mg/L	0.00023	10/10/22 16:26	
<b>40252602002</b>	<b>MW-4</b>					
EPA 8270E by SIM	Acenaphthene	0.028	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Acenaphthylene	0.0050	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Anthracene	0.0050	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.00073J	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Chrysene	0.0021J	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Fluoranthene	0.0062	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Fluorene	0.047	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	1-Methylnaphthalene	0.045	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Naphthalene	0.016	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Phenanthrene	0.064	mg/L	0.0022	10/10/22 16:45	
EPA 8270E by SIM	Pyrene	0.020	mg/L	0.0022	10/10/22 16:45	
<b>40252602003</b>	<b>MW-5</b>					
EPA 8260	Tetrachloroethene	0.019	mg/L	0.0010	10/10/22 23:03	
EPA 8260	1,1,1-Trichloroethane	0.00062J	mg/L	0.0010	10/10/22 23:03	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

**Sample: MW-3**      **Lab ID: 40252602001**      Collected: 10/04/22 12:30      Received: 10/06/22 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>0.00011J</b>	mg/L	0.00023	0.000065	5	10/07/22 08:42	10/10/22 16:26	83-32-9	
Acenaphthylene	<b>0.00059</b>	mg/L	0.00023	0.000058	5	10/07/22 08:42	10/10/22 16:26	208-96-8	
Anthracene	<b>0.00089</b>	mg/L	0.00023	0.000086	5	10/07/22 08:42	10/10/22 16:26	120-12-7	
Benzo(a)anthracene	<b>0.0043</b>	mg/L	0.00023	0.000063	5	10/07/22 08:42	10/10/22 16:26	56-55-3	
Benzo(a)pyrene	<b>0.011</b>	mg/L	0.00023	0.000059	5	10/07/22 08:42	10/10/22 16:26	50-32-8	
Benzo(b)fluoranthene	<b>0.020</b>	mg/L	0.00023	0.000042	5	10/07/22 08:42	10/10/22 16:26	205-99-2	
Benzo(g,h,i)perylene	<b>0.014</b>	mg/L	0.00023	0.00011	5	10/07/22 08:42	10/10/22 16:26	191-24-2	
Benzo(k)fluoranthene	<b>0.0072</b>	mg/L	0.00023	0.00010	5	10/07/22 08:42	10/10/22 16:26	207-08-9	L2
Chrysene	<b>0.013</b>	mg/L	0.00023	0.000058	5	10/07/22 08:42	10/10/22 16:26	218-01-9	
Dibenz(a,h)anthracene	<b>0.0023</b>	mg/L	0.00023	0.000083	5	10/07/22 08:42	10/10/22 16:26	53-70-3	
Fluoranthene	<b>0.022</b>	mg/L	0.00023	0.00012	5	10/07/22 08:42	10/10/22 16:26	206-44-0	
Fluorene	<b>0.00024</b>	mg/L	0.00023	0.00011	5	10/07/22 08:42	10/10/22 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.011</b>	mg/L	0.00023	0.000072	5	10/07/22 08:42	10/10/22 16:26	193-39-5	
1-Methylnaphthalene	<b>&lt;0.000083</b>	mg/L	0.00023	0.000083	5	10/07/22 08:42	10/10/22 16:26	90-12-0	
2-Methylnaphthalene	<b>&lt;0.000064</b>	mg/L	0.00023	0.000064	5	10/07/22 08:42	10/10/22 16:26	91-57-6	
Naphthalene	<b>&lt;0.000092</b>	mg/L	0.00023	0.000092	5	10/07/22 08:42	10/10/22 16:26	91-20-3	
Phenanthrene	<b>0.0069</b>	mg/L	0.00023	0.00012	5	10/07/22 08:42	10/10/22 16:26	85-01-8	
Pyrene	<b>0.015</b>	mg/L	0.00023	0.00010	5	10/07/22 08:42	10/10/22 16:26	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	44-120		5	10/07/22 08:42	10/10/22 16:26	321-60-8	
Terphenyl-d14 (S)	75	%	49-120		5	10/07/22 08:42	10/10/22 16:26	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

**Sample: MW-4**      **Lab ID: 40252602002**      Collected: 10/04/22 13:30      Received: 10/06/22 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>0.028</b>	mg/L	0.0022	0.00062	50	10/07/22 08:42	10/10/22 16:45	83-32-9	
Acenaphthylene	<b>0.0050</b>	mg/L	0.0022	0.00057	50	10/07/22 08:42	10/10/22 16:45	208-96-8	
Anthracene	<b>0.0050</b>	mg/L	0.0022	0.00083	50	10/07/22 08:42	10/10/22 16:45	120-12-7	
Benzo(a)anthracene	<b>&lt;0.00061</b>	mg/L	0.0022	0.00061	50	10/07/22 08:42	10/10/22 16:45	56-55-3	
Benzo(a)pyrene	<b>&lt;0.00057</b>	mg/L	0.0022	0.00057	50	10/07/22 08:42	10/10/22 16:45	50-32-8	
Benzo(b)fluoranthene	<b>0.00073J</b>	mg/L	0.0022	0.00041	50	10/07/22 08:42	10/10/22 16:45	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0010</b>	mg/L	0.0022	0.0010	50	10/07/22 08:42	10/10/22 16:45	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0010</b>	mg/L	0.0022	0.0010	50	10/07/22 08:42	10/10/22 16:45	207-08-9	L2
Chrysene	<b>0.0021J</b>	mg/L	0.0022	0.00057	50	10/07/22 08:42	10/10/22 16:45	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.00080</b>	mg/L	0.0022	0.00080	50	10/07/22 08:42	10/10/22 16:45	53-70-3	
Fluoranthene	<b>0.0062</b>	mg/L	0.0022	0.0012	50	10/07/22 08:42	10/10/22 16:45	206-44-0	
Fluorene	<b>0.047</b>	mg/L	0.0022	0.0011	50	10/07/22 08:42	10/10/22 16:45	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.00070</b>	mg/L	0.0022	0.00070	50	10/07/22 08:42	10/10/22 16:45	193-39-5	
1-Methylnaphthalene	<b>0.045</b>	mg/L	0.0022	0.00080	50	10/07/22 08:42	10/10/22 16:45	90-12-0	
2-Methylnaphthalene	<b>&lt;0.00062</b>	mg/L	0.0022	0.00062	50	10/07/22 08:42	10/10/22 16:45	91-57-6	
Naphthalene	<b>0.016</b>	mg/L	0.0022	0.00089	50	10/07/22 08:42	10/10/22 16:45	91-20-3	
Phenanthrene	<b>0.064</b>	mg/L	0.0022	0.0011	50	10/07/22 08:42	10/10/22 16:45	85-01-8	
Pyrene	<b>0.020</b>	mg/L	0.0022	0.0010	50	10/07/22 08:42	10/10/22 16:45	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	89	%	44-120		50	10/07/22 08:42	10/10/22 16:45	321-60-8	
Terphenyl-d14 (S)	79	%	49-120		50	10/07/22 08:42	10/10/22 16:45	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

Sample: MW-5 Lab ID: 40252602003 Collected: 10/04/22 14:30 Received: 10/06/22 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.00030	mg/L	0.0010	0.00030	1		10/10/22 23:03	71-43-2	
Bromobenzene	<0.00036	mg/L	0.0010	0.00036	1		10/10/22 23:03	108-86-1	
Bromochloromethane	<0.00036	mg/L	0.0050	0.00036	1		10/10/22 23:03	74-97-5	
Bromodichloromethane	<0.00042	mg/L	0.0010	0.00042	1		10/10/22 23:03	75-27-4	
Bromoform	<0.0038	mg/L	0.0050	0.0038	1		10/10/22 23:03	75-25-2	
Bromomethane	<0.0012	mg/L	0.0050	0.0012	1		10/10/22 23:03	74-83-9	
n-Butylbenzene	<0.00086	mg/L	0.0010	0.00086	1		10/10/22 23:03	104-51-8	
sec-Butylbenzene	<0.00042	mg/L	0.0010	0.00042	1		10/10/22 23:03	135-98-8	
tert-Butylbenzene	<0.00059	mg/L	0.0010	0.00059	1		10/10/22 23:03	98-06-6	
Carbon tetrachloride	<0.00037	mg/L	0.0010	0.00037	1		10/10/22 23:03	56-23-5	
Chlorobenzene	<0.00086	mg/L	0.0010	0.00086	1		10/10/22 23:03	108-90-7	
Chloroethane	<0.0014	mg/L	0.0050	0.0014	1		10/10/22 23:03	75-00-3	
Chloroform	<0.0012	mg/L	0.0050	0.0012	1		10/10/22 23:03	67-66-3	
Chloromethane	<0.0016	mg/L	0.0050	0.0016	1		10/10/22 23:03	74-87-3	
2-Chlorotoluene	<0.00089	mg/L	0.0050	0.00089	1		10/10/22 23:03	95-49-8	
4-Chlorotoluene	<0.00089	mg/L	0.0050	0.00089	1		10/10/22 23:03	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0024	mg/L	0.0050	0.0024	1		10/10/22 23:03	96-12-8	
Dibromochloromethane	<0.0026	mg/L	0.0050	0.0026	1		10/10/22 23:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.00031	mg/L	0.0010	0.00031	1		10/10/22 23:03	106-93-4	
Dibromomethane	<0.00099	mg/L	0.0050	0.00099	1		10/10/22 23:03	74-95-3	
1,2-Dichlorobenzene	<0.00033	mg/L	0.0010	0.00033	1		10/10/22 23:03	95-50-1	
1,3-Dichlorobenzene	<0.00035	mg/L	0.0010	0.00035	1		10/10/22 23:03	541-73-1	
1,4-Dichlorobenzene	<0.00089	mg/L	0.0010	0.00089	1		10/10/22 23:03	106-46-7	
Dichlorodifluoromethane	<0.00046	mg/L	0.0050	0.00046	1		10/10/22 23:03	75-71-8	
1,1-Dichloroethane	<0.00030	mg/L	0.0010	0.00030	1		10/10/22 23:03	75-34-3	
1,2-Dichloroethane	<0.00029	mg/L	0.0010	0.00029	1		10/10/22 23:03	107-06-2	
1,1-Dichloroethene	<0.00058	mg/L	0.0010	0.00058	1		10/10/22 23:03	75-35-4	
cis-1,2-Dichloroethene	<0.00047	mg/L	0.0010	0.00047	1		10/10/22 23:03	156-59-2	
trans-1,2-Dichloroethene	<0.00053	mg/L	0.0010	0.00053	1		10/10/22 23:03	156-60-5	
1,2-Dichloropropane	<0.00045	mg/L	0.0010	0.00045	1		10/10/22 23:03	78-87-5	
1,3-Dichloropropane	<0.00030	mg/L	0.0010	0.00030	1		10/10/22 23:03	142-28-9	
2,2-Dichloropropane	<0.0042	mg/L	0.0050	0.0042	1		10/10/22 23:03	594-20-7	
1,1-Dichloropropene	<0.00041	mg/L	0.0010	0.00041	1		10/10/22 23:03	563-58-6	
cis-1,3-Dichloropropene	<0.00036	mg/L	0.0010	0.00036	1		10/10/22 23:03	10061-01-5	
trans-1,3-Dichloropropene	<0.0035	mg/L	0.0050	0.0035	1		10/10/22 23:03	10061-02-6	
Diisopropyl ether	<0.0011	mg/L	0.0050	0.0011	1		10/10/22 23:03	108-20-3	
Ethylbenzene	<0.00033	mg/L	0.0010	0.00033	1		10/10/22 23:03	100-41-4	
Hexachloro-1,3-butadiene	<0.0027	mg/L	0.0050	0.0027	1		10/10/22 23:03	87-68-3	
Isopropylbenzene (Cumene)	<0.0010	mg/L	0.0050	0.0010	1		10/10/22 23:03	98-82-8	
p-Isopropyltoluene	<0.0010	mg/L	0.0050	0.0010	1		10/10/22 23:03	99-87-6	
Methylene Chloride	<0.00032	mg/L	0.0050	0.00032	1		10/10/22 23:03	75-09-2	
Methyl-tert-butyl ether	<0.0011	mg/L	0.0050	0.0011	1		10/10/22 23:03	1634-04-4	
Naphthalene	<0.0011	mg/L	0.0050	0.0011	1		10/10/22 23:03	91-20-3	
n-Propylbenzene	<0.00035	mg/L	0.0010	0.00035	1		10/10/22 23:03	103-65-1	
Styrene	<0.00036	mg/L	0.0010	0.00036	1		10/10/22 23:03	100-42-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

**Sample: MW-5**      **Lab ID: 40252602003**      Collected: 10/04/22 14:30      Received: 10/06/22 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.00036	mg/L	0.0010	0.00036	1		10/10/22 23:03	630-20-6	
1,1,1,2-Tetrachloroethane	<0.00038	mg/L	0.0010	0.00038	1		10/10/22 23:03	79-34-5	
Tetrachloroethene	0.019	mg/L	0.0010	0.00041	1		10/10/22 23:03	127-18-4	
Toluene	<0.00029	mg/L	0.0010	0.00029	1		10/10/22 23:03	108-88-3	
1,2,3-Trichlorobenzene	<0.0010	mg/L	0.0050	0.0010	1		10/10/22 23:03	87-61-6	
1,2,4-Trichlorobenzene	<0.00095	mg/L	0.0050	0.00095	1		10/10/22 23:03	120-82-1	
1,1,1-Trichloroethane	0.00062J	mg/L	0.0010	0.00030	1		10/10/22 23:03	71-55-6	
1,1,2-Trichloroethane	<0.00034	mg/L	0.0050	0.00034	1		10/10/22 23:03	79-00-5	
Trichloroethene	<0.00032	mg/L	0.0010	0.00032	1		10/10/22 23:03	79-01-6	
Trichlorofluoromethane	<0.00042	mg/L	0.0010	0.00042	1		10/10/22 23:03	75-69-4	
1,2,3-Trichloropropane	<0.00056	mg/L	0.0050	0.00056	1		10/10/22 23:03	96-18-4	
1,2,4-Trimethylbenzene	<0.00045	mg/L	0.0010	0.00045	1		10/10/22 23:03	95-63-6	
1,3,5-Trimethylbenzene	<0.00036	mg/L	0.0010	0.00036	1		10/10/22 23:03	108-67-8	
Vinyl chloride	<0.00017	mg/L	0.0010	0.00017	1		10/10/22 23:03	75-01-4	
m&p-Xylene	<0.00070	mg/L	0.0020	0.00070	1		10/10/22 23:03	179601-23-1	
o-Xylene	<0.00035	mg/L	0.0010	0.00035	1		10/10/22 23:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/10/22 23:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/10/22 23:03	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		10/10/22 23:03	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

QC Batch: 428019      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40252602003

METHOD BLANK: 2464698      Matrix: Water  
Associated Lab Samples: 40252602003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	<0.00036	0.0010	10/10/22 17:32	
1,1,1-Trichloroethane	mg/L	<0.00030	0.0010	10/10/22 17:32	
1,1,2,2-Tetrachloroethane	mg/L	<0.00038	0.0010	10/10/22 17:32	
1,1,2-Trichloroethane	mg/L	<0.00034	0.0050	10/10/22 17:32	
1,1-Dichloroethane	mg/L	<0.00030	0.0010	10/10/22 17:32	
1,1-Dichloroethene	mg/L	<0.00058	0.0010	10/10/22 17:32	
1,1-Dichloropropene	mg/L	<0.00041	0.0010	10/10/22 17:32	
1,2,3-Trichlorobenzene	mg/L	<0.0010	0.0050	10/10/22 17:32	
1,2,3-Trichloropropane	mg/L	<0.00056	0.0050	10/10/22 17:32	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.0050	10/10/22 17:32	
1,2,4-Trimethylbenzene	mg/L	<0.00045	0.0010	10/10/22 17:32	
1,2-Dibromo-3-chloropropane	mg/L	<0.0024	0.0050	10/10/22 17:32	
1,2-Dibromoethane (EDB)	mg/L	<0.00031	0.0010	10/10/22 17:32	
1,2-Dichlorobenzene	mg/L	<0.00033	0.0010	10/10/22 17:32	
1,2-Dichloroethane	mg/L	<0.00029	0.0010	10/10/22 17:32	
1,2-Dichloropropane	mg/L	<0.00045	0.0010	10/10/22 17:32	
1,3,5-Trimethylbenzene	mg/L	<0.00036	0.0010	10/10/22 17:32	
1,3-Dichlorobenzene	mg/L	<0.00035	0.0010	10/10/22 17:32	
1,3-Dichloropropane	mg/L	<0.00030	0.0010	10/10/22 17:32	
1,4-Dichlorobenzene	mg/L	<0.00089	0.0010	10/10/22 17:32	
2,2-Dichloropropane	mg/L	<0.0042	0.0050	10/10/22 17:32	
2-Chlorotoluene	mg/L	<0.00089	0.0050	10/10/22 17:32	
4-Chlorotoluene	mg/L	<0.00089	0.0050	10/10/22 17:32	
Benzene	mg/L	<0.00030	0.0010	10/10/22 17:32	
Bromobenzene	mg/L	<0.00036	0.0010	10/10/22 17:32	
Bromochloromethane	mg/L	<0.00036	0.0050	10/10/22 17:32	
Bromodichloromethane	mg/L	<0.00042	0.0010	10/10/22 17:32	
Bromoform	mg/L	<0.0038	0.0050	10/10/22 17:32	
Bromomethane	mg/L	<0.0012	0.0050	10/10/22 17:32	
Carbon tetrachloride	mg/L	<0.00037	0.0010	10/10/22 17:32	
Chlorobenzene	mg/L	<0.00086	0.0010	10/10/22 17:32	
Chloroethane	mg/L	<0.0014	0.0050	10/10/22 17:32	
Chloroform	mg/L	<0.0012	0.0050	10/10/22 17:32	
Chloromethane	mg/L	<0.0016	0.0050	10/10/22 17:32	
cis-1,2-Dichloroethene	mg/L	<0.00047	0.0010	10/10/22 17:32	
cis-1,3-Dichloropropene	mg/L	<0.00036	0.0010	10/10/22 17:32	
Dibromochloromethane	mg/L	<0.0026	0.0050	10/10/22 17:32	
Dibromomethane	mg/L	<0.00099	0.0050	10/10/22 17:32	
Dichlorodifluoromethane	mg/L	<0.00046	0.0050	10/10/22 17:32	
Diisopropyl ether	mg/L	<0.0011	0.0050	10/10/22 17:32	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

METHOD BLANK: 2464698

Matrix: Water

Associated Lab Samples: 40252602003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/L	<0.00033	0.0010	10/10/22 17:32	
Hexachloro-1,3-butadiene	mg/L	<0.0027	0.0050	10/10/22 17:32	
Isopropylbenzene (Cumene)	mg/L	<0.0010	0.0050	10/10/22 17:32	
m&p-Xylene	mg/L	<0.00070	0.0020	10/10/22 17:32	
Methyl-tert-butyl ether	mg/L	<0.0011	0.0050	10/10/22 17:32	
Methylene Chloride	mg/L	<0.00032	0.0050	10/10/22 17:32	
n-Butylbenzene	mg/L	<0.00086	0.0010	10/10/22 17:32	
n-Propylbenzene	mg/L	<0.00035	0.0010	10/10/22 17:32	
Naphthalene	mg/L	<0.0011	0.0050	10/10/22 17:32	
o-Xylene	mg/L	<0.00035	0.0010	10/10/22 17:32	
p-Isopropyltoluene	mg/L	<0.0010	0.0050	10/10/22 17:32	
sec-Butylbenzene	mg/L	<0.00042	0.0010	10/10/22 17:32	
Styrene	mg/L	<0.00036	0.0010	10/10/22 17:32	
tert-Butylbenzene	mg/L	<0.00059	0.0010	10/10/22 17:32	
Tetrachloroethene	mg/L	<0.00041	0.0010	10/10/22 17:32	
Toluene	mg/L	<0.00029	0.0010	10/10/22 17:32	
trans-1,2-Dichloroethene	mg/L	<0.00053	0.0010	10/10/22 17:32	
trans-1,3-Dichloropropene	mg/L	<0.0035	0.0050	10/10/22 17:32	
Trichloroethene	mg/L	<0.00032	0.0010	10/10/22 17:32	
Trichlorofluoromethane	mg/L	<0.00042	0.0010	10/10/22 17:32	
Vinyl chloride	mg/L	<0.00017	0.0010	10/10/22 17:32	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	10/10/22 17:32	
4-Bromofluorobenzene (S)	%	100	70-130	10/10/22 17:32	
Toluene-d8 (S)	%	97	70-130	10/10/22 17:32	

LABORATORY CONTROL SAMPLE: 2464699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.05	0.052	105	70-134	
1,1,2,2-Tetrachloroethane	mg/L	0.05	0.047	95	69-130	
1,1,2-Trichloroethane	mg/L	0.05	0.046	91	70-130	
1,1-Dichloroethane	mg/L	0.05	0.048	97	70-130	
1,1-Dichloroethene	mg/L	0.05	0.049	97	74-131	
1,2,4-Trichlorobenzene	mg/L	0.05	0.050	100	68-130	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.045	90	64-137	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.048	96	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.050	100	70-130	
1,2-Dichloroethane	mg/L	0.05	0.049	98	70-137	
1,2-Dichloropropane	mg/L	0.05	0.049	98	80-121	
1,3-Dichlorobenzene	mg/L	0.05	0.051	103	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.051	102	70-130	
Benzene	mg/L	0.05	0.048	96	70-130	
Bromodichloromethane	mg/L	0.05	0.049	99	70-130	
Bromoform	mg/L	0.05	0.046	92	70-130	

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### QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

LABORATORY CONTROL SAMPLE: 2464699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/L	0.05	0.040	79	21-147	
Carbon tetrachloride	mg/L	0.05	0.053	106	80-146	
Chlorobenzene	mg/L	0.05	0.049	98	70-130	
Chloroethane	mg/L	0.05	0.049	99	52-165	
Chloroform	mg/L	0.05	0.050	100	80-123	
Chloromethane	mg/L	0.05	0.041	81	51-122	
cis-1,2-Dichloroethene	mg/L	0.05	0.048	97	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.049	97	70-130	
Dibromochloromethane	mg/L	0.05	0.046	93	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.030	60	25-121	
Ethylbenzene	mg/L	0.05	0.053	105	80-120	
Isopropylbenzene (Cumene)	mg/L	0.05	0.055	110	70-130	
m&p-Xylene	mg/L	0.1	0.11	107	70-130	
Methyl-tert-butyl ether	mg/L	0.05	0.045	90	70-130	
Methylene Chloride	mg/L	0.05	0.049	99	70-130	
o-Xylene	mg/L	0.05	0.051	102	70-130	
Styrene	mg/L	0.05	0.053	107	70-130	
Tetrachloroethene	mg/L	0.05	0.049	99	70-130	
Toluene	mg/L	0.05	0.050	99	80-120	
trans-1,2-Dichloroethene	mg/L	0.05	0.049	98	70-130	
trans-1,3-Dichloropropene	mg/L	0.05	0.040	80	70-130	
Trichloroethene	mg/L	0.05	0.049	99	70-130	
Trichlorofluoromethane	mg/L	0.05	0.049	99	65-160	
Vinyl chloride	mg/L	0.05	0.046	91	63-134	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2466711 2466712

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40252601002	Spike Conc.	Spike Conc.	Result							Result
1,1,1-Trichloroethane	mg/L	<0.00030	0.05	0.05	0.055	0.053	110	105	70-134	4	20	
1,1,2,2-Tetrachloroethane	mg/L	<0.00038	0.05	0.05	0.049	0.050	97	100	61-135	3	20	
1,1,2-Trichloroethane	mg/L	<0.00034	0.05	0.05	0.046	0.048	93	97	70-130	5	20	
1,1-Dichloroethane	mg/L	<0.00030	0.05	0.05	0.051	0.049	101	98	70-130	4	20	
1,1-Dichloroethene	mg/L	<0.00058	0.05	0.05	0.048	0.047	95	95	71-130	1	20	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.05	0.05	0.051	0.050	102	101	68-131	1	20	
1,2-Dibromo-3-chloropropane	mg/L	<0.0024	0.05	0.05	0.042	0.048	83	95	51-141	14	20	
1,2-Dibromoethane (EDB)	mg/L	<0.00031	0.05	0.05	0.046	0.049	93	99	70-130	7	20	
1,2-Dichlorobenzene	mg/L	<0.00033	0.05	0.05	0.051	0.050	101	101	70-130	0	20	
1,2-Dichloroethane	mg/L	<0.00029	0.05	0.05	0.050	0.050	99	100	70-137	1	20	
1,2-Dichloropropane	mg/L	<0.00045	0.05	0.05	0.050	0.051	101	103	80-121	2	20	
1,3-Dichlorobenzene	mg/L	<0.00035	0.05	0.05	0.053	0.053	106	105	70-130	1	20	

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### QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2466711		2466712		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40252601002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	mg/L	<0.00089	0.05	0.05	0.052	0.052	103	104	70-130	0	20		
Benzene	mg/L	<0.00030	0.05	0.05	0.050	0.049	101	99	70-130	2	20		
Bromodichloromethane	mg/L	<0.00042	0.05	0.05	0.053	0.052	105	104	70-130	1	20		
Bromoform	mg/L	<0.0038	0.05	0.05	0.048	0.050	96	100	70-133	4	20		
Bromomethane	mg/L	<0.0012	0.05	0.05	0.043	0.043	87	87	21-149	0	22		
Carbon tetrachloride	mg/L	<0.00037	0.05	0.05	0.055	0.054	110	107	80-146	3	20		
Chlorobenzene	mg/L	<0.00086	0.05	0.05	0.051	0.050	101	100	70-130	1	20		
Chloroethane	mg/L	<0.0014	0.05	0.05	0.049	0.046	98	91	52-165	7	20		
Chloroform	mg/L	<0.0012	0.05	0.05	0.052	0.051	105	102	80-123	3	20		
Chloromethane	mg/L	<0.0016	0.05	0.05	0.040	0.039	80	77	42-125	3	20		
cis-1,2-Dichloroethene	mg/L	<0.00047	0.05	0.05	0.049	0.048	98	96	70-130	3	20		
cis-1,3-Dichloropropene	mg/L	<0.00036	0.05	0.05	0.050	0.050	100	99	70-130	0	20		
Dibromochloromethane	mg/L	<0.0026	0.05	0.05	0.048	0.049	96	98	70-130	2	20		
Dichlorodifluoromethane	mg/L	<0.00046	0.05	0.05	0.029	0.027	58	54	25-121	8	20		
Ethylbenzene	mg/L	<0.00033	0.05	0.05	0.054	0.054	109	109	80-121	0	20		
Isopropylbenzene (Cumene)	mg/L	<0.0010	0.05	0.05	0.056	0.055	112	110	70-130	2	20		
m&p-Xylene	mg/L	<0.00070	0.1	0.1	0.11	0.11	108	107	70-130	0	20		
Methyl-tert-butyl ether	mg/L	<0.0011	0.05	0.05	0.047	0.047	93	94	70-130	1	20		
Methylene Chloride	mg/L	<0.00032	0.05	0.05	0.051	0.051	103	102	70-130	1	20		
o-Xylene	mg/L	<0.00035	0.05	0.05	0.052	0.053	104	106	70-130	2	20		
Styrene	mg/L	<0.00036	0.05	0.05	0.055	0.055	110	110	70-132	0	20		
Tetrachloroethene	mg/L	<0.00041	0.05	0.05	0.050	0.050	101	101	70-130	0	20		
Toluene	mg/L	<0.00029	0.05	0.05	0.050	0.051	100	101	80-120	1	20		
trans-1,2-Dichloroethene	mg/L	<0.00053	0.05	0.05	0.051	0.050	103	100	70-130	2	20		
trans-1,3-Dichloropropene	mg/L	<0.0035	0.05	0.05	0.042	0.043	84	86	70-130	3	20		
Trichloroethene	mg/L	<0.00032	0.05	0.05	0.053	0.051	105	102	70-130	3	20		
Trichlorofluoromethane	mg/L	<0.00042	0.05	0.05	0.051	0.049	101	98	65-160	3	20		
Vinyl chloride	mg/L	<0.00017	0.05	0.05	0.045	0.044	90	87	60-137	3	20		
1,2-Dichlorobenzene-d4 (S)	%						100	100	70-130				
4-Bromofluorobenzene (S)	%						104	103	70-130				
Toluene-d8 (S)	%						100	100	70-130				

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

QC Batch: 428081 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40252602001, 40252602002

METHOD BLANK: 2465235 Matrix: Water

Associated Lab Samples: 40252602001, 40252602002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/L	<0.000018	0.000050	10/10/22 08:26	
2-Methylnaphthalene	mg/L	<0.000014	0.000050	10/10/22 08:26	
Acenaphthene	mg/L	<0.000014	0.000050	10/10/22 08:26	
Acenaphthylene	mg/L	<0.000013	0.000050	10/10/22 08:26	
Anthracene	mg/L	<0.000018	0.000050	10/10/22 08:26	
Benzo(a)anthracene	mg/L	<0.000014	0.000050	10/10/22 08:26	
Benzo(a)pyrene	mg/L	<0.000013	0.000050	10/10/22 08:26	
Benzo(b)fluoranthene	mg/L	<0.0000091	0.000050	10/10/22 08:26	
Benzo(g,h,i)perylene	mg/L	<0.000023	0.000050	10/10/22 08:26	
Benzo(k)fluoranthene	mg/L	<0.000022	0.000050	10/10/22 08:26	
Chrysene	mg/L	<0.000013	0.000050	10/10/22 08:26	
Dibenz(a,h)anthracene	mg/L	<0.000018	0.000050	10/10/22 08:26	
Fluoranthene	mg/L	<0.000026	0.000050	10/10/22 08:26	
Fluorene	mg/L	<0.000024	0.000050	10/10/22 08:26	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000016	0.000050	10/10/22 08:26	
Naphthalene	mg/L	<0.000020	0.000050	10/10/22 08:26	
Phenanthrene	mg/L	<0.000026	0.000050	10/10/22 08:26	
Pyrene	mg/L	<0.000023	0.000050	10/10/22 08:26	
2-Fluorobiphenyl (S)	%	72	44-120	10/10/22 08:26	
Terphenyl-d14 (S)	%	81	49-120	10/10/22 08:26	

LABORATORY CONTROL SAMPLE: 2465236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/L	0.002	0.0014	70	51-120	
2-Methylnaphthalene	mg/L	0.002	0.0014	68	50-120	
Acenaphthene	mg/L	0.002	0.0014	69	65-120	
Acenaphthylene	mg/L	0.002	0.0014	68	61-120	
Anthracene	mg/L	0.002	0.0014	71	61-104	
Benzo(a)anthracene	mg/L	0.002	0.0014	70	51-96	
Benzo(a)pyrene	mg/L	0.002	0.0014	68	68-120	
Benzo(b)fluoranthene	mg/L	0.002	0.0013	67	55-97	
Benzo(g,h,i)perylene	mg/L	0.002	0.0015	76	69-120	
Benzo(k)fluoranthene	mg/L	0.002	0.0014	71	73-120 L2	
Chrysene	mg/L	0.002	0.0015	75	72-126	
Dibenz(a,h)anthracene	mg/L	0.002	0.0016	78	57-115	
Fluoranthene	mg/L	0.002	0.0015	75	58-111	
Fluorene	mg/L	0.002	0.0014	70	62-120	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0016	79	66-120	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

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LABORATORY CONTROL SAMPLE: 2465236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/L	0.002	0.0013	67	53-120	
Phenanthrene	mg/L	0.002	0.0014	69	59-120	
Pyrene	mg/L	0.002	0.0013	67	59-120	
2-Fluorobiphenyl (S)	%			69	44-120	
Terphenyl-d14 (S)	%			77	49-120	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 6255 SOUTH MILWAUKEE

Pace Project No.: 40252602

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 6255 SOUTH MILWAUKEE  
Pace Project No.: 40252602

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40252602001	MW-3	EPA 3510	428081	EPA 8270E by SIM	428122
40252602002	MW-4	EPA 3510	428081	EPA 8270E by SIM	428122
40252602003	MW-5	EPA 8260	428019		

**REPORT OF LABORATORY ANALYSIS**

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(Please Print Clearly)

Company Name: DAI Environmental  
 Branch/Location: Lake Forest  
 Project Contact: Chris Cailles  
 Phone: 847-573-8900  
 Project Number: 6255  
 Project Name: South Milwaukee  
 Project State: Wisconsin  
 Sampled By (Print): Marcus Grieschner  
 Sampled By (Sign): Marcus Grieschner  
 PO #: Regulatory Program:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

41052602

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:		
Mail To Contact:		
Mail To Company:		
Mail To Address:		
Invoice To Contact:		
Invoice To Company:		
Invoice To Address:		
Invoice To Phone:		
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	Pick Letter	Analyses Requested	
		VOCs	PAH

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-3	10/4/22	12:30	GW
002	MW-4	10/4/22	1:30	GW
003	MW-5	10/4/22	2:30	GW

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>Marcus Grieschner</i> Date/Time: <i>10/5/22 10:33</i>	Received By: <i>Mike Le</i> Date/Time: <i>10/5/22 10:35</i>
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: <i>Mike Le</i> Date/Time: <i>10/5/22 5:00</i>	Received By: <i>CS Logistics</i> Date/Time: <i>10/5/22 8:00</i>
Email #1:	Relinquished By: <i>CS Logistics</i> Date/Time: <i>10/6/22 8:10</i>	Received By: <i>Morgan Pace</i> Date/Time: <i>10/6/22 8:10</i>
Email #2:	Relinquished By:	Received By:
Telephone:	Relinquished By:	Received By:
Fax:	Relinquished By:	Received By:
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:	Received By:

PACE Project No. 41052602

Receipt Temp = 0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present (Not Present) Intact (Not Intact)

Client Name: DAI

Sample Preservation Receipt Form

Project # 41252602

All containers needing preservation have been checked and noted below:  
Lab Lot# of pH paper:

Yes  No  N/A

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	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC	GN 1	GN 2		
001					2																															2.5 / 5
002					2																															2.5 / 5
003																	3																			2.5 / 5
004																																				2.5 / 5
005																																				2.5 / 5
006																																				2.5 / 5
007																																				2.5 / 5
008																																				2.5 / 5
009																																				2.5 / 5
010																																				2.5 / 5
011																																				2.5 / 5
012																																				2.5 / 5
013																																				2.5 / 5
014																																				2.5 / 5
015																																				2.5 / 5
016																																				2.5 / 5
017																																				2.5 / 5
018																																				2.5 / 5
019																																				2.5 / 5
020																																				2.5 / 5

10/6/22 mp

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	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

**Sample Condition Upon Receipt Form (SCUR)**

Project #:

Client Name: DAI

WO#: 40252602

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: \_\_\_\_\_

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 - 110 Type of Ice: Wet Blue Dry None  Meltwater Only

Cooler Temperature Uncorr: - / Corr: 0°

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

Person examining contents:  
 Date: 10/6/22 / Initials: mp  
 Labeled By Initials: SUT

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg#, filter, preservation, mail/invoice 10/6/22 mp</u>
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.
- DI 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.
Correct Type: <u>Pace Green Bay, Pace IR, Non-Pace</u>		
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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