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June 30, 2021

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***
(May 2021 Results)
BRRTS #: 02-41-576336 & 02-41-579429
FID #: 241828620
Sunrise Shopping Center
2410-2424 10th 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 May 2021 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 regards to this submission, please contact me at (847) 9963-3580. Thank you for your time.

Sincerely,
DAI Environmental, Inc.

Christopher Cailles

Christopher Cailles, P.E.
Project Engineer

Enclosure

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QUARTERLY GROUNDWATER SAMPLING REPORT
(MAY 2021 RESULTS)
SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE & 1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN 53172
WDNR BRRTS ACTIVITY #02-41-576336 & 02-41-579429
WDNR FID #241828620

June 30, 2021

DAI Project Number: 6255

Prepared For:
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Lake Forest, Illinois 60045

TABLE OF CONTENTS

LIST OF TABLES (APPENDIX A)

LIST OF FIGURES (APPENDIX B)

LIST OF APPENDICES

1.0 INTRODUCTION

Soil and groundwater Remedial Actions are being performed at the Sunrise Shopping Center facility, addressed as 2410-2424 10th 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 the 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

Quarterly groundwater sampling is being conducted at monitoring wells MW-3 to MW-5. 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 ±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 SW8270 by HVI.

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^{o}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 second quarter 2021 groundwater sampling event. The static water level elevations were collected from all monitoring wells on May 3, 2021. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that monitoring wells MW-1 through MW-4 indicate the highest quarterly variability, while MW-5 and MW-201 fluctuate less between quarters, in general. The highest static elevation differences are noted in monitoring wells MW-1 and MW-3, which are located in areas of the Site with known subsurface disturbance.

While there is much variability in elevation between quarters, the groundwater flow direction has remained generally consistent. The typical groundwater flow direction along the southern half of the Site is northwesterly, and a north-northeasterly groundwater flow direction is indicated along the northern half of the Site, though the most recent monitoring events have only indicated the northwesterly direction across the Site. The potentiometric surface map generated from the May 2021 data is included as Figure B.3.c.17 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the second quarter 2021 (i.e., April-June 2021) were collected on May 3rd and May 9, 2021, 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 (see Attachment A). The tables are compared to the Preventative Action Limits PAL (s) and Enforcement Standards listed in Table 1 of NR 140. A copy of the laboratory analytical report for the second quarter 2021 sampling is provided in this report as Attachment C.1.E.

Volatile Organic Compounds

Table A.1.A summarizes the results for Perc and Trichloroethene (TCE), the only VOCs of concern in the groundwater (previous quarterly reports include a full summary of VOC analyses). All results are for groundwater samples collected from MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location).

As noted in the table, since February 2016 Perc has been present consistently in monitoring well MW-5, with concentrations exceeding the Enforcement Standard of 0.005-mg/L. Concentrations were noted as increasing between November 2014 and October 2018, followed by an overall declining trend (though highly variable from quarter to quarter). The chemical injection activities conducted in July 2018 and August 2019 appear to have contributed to the declining concentrations. The results of the most recent groundwater from January 2021 sampling indicate a Perc concentration in MW-5 of 0.01-mg/L. Evaluating the data more broadly, the observed Perc concentrations have been generally consistent each quarter since September 2019 (sampling following the second chemical injection) and are considered stable. Figure B.3.b.1a provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination.

Since the groundwater sampling was initiated, the TCE concentration in MW-5 was observed at a level above the PAL on two (2) occasions: January 2019 (0.0027-mg/L) and April 2019 (0.00071-mg/L). All subsequent TCE concentrations have remained below the PAL, with the most recent result from January 2021 at a concentration of <0.00026-mg/L. Figure B.3.b.1b provides a historical summary of TCE groundwater concentrations.

Polynuclear Aromatic Hydrocarbons

Table A.1.B summarizes the results of the PAH analyses for MW-3 and MW-4. 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 (which is installed in the southern portion of the property where contamination from historical petroleum and/or coal storage was identified)

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 groundwater contamination was observed in MW-3. The most recent concentrations from May 2021 remain above the Enforcement Standards, although the results continue to be stable, with concentrations nearly identical to those observed during each quarterly sampling event since May 2020. As previously noted, it appears that the groundwater concentrations are most influenced by fluctuations in the groundwater table elevation through the contaminated fill material, particularly in the area for MW-3. Additionally, the monitoring well has been damaged as a result of snow removal operations, so that the integrity of casing may be negatively impacting the PAH sampling results. The damage to the monitoring well casing and fluctuations in the groundwater table elevations contribute to the high variability in observed concentrations over time. However, these impacts are still limited to the area along the southern property boundary.

Similar to the results from MW-3, the Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene concentrations in MW-4 (installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST) were also above the Enforcement Standards in May 2021. The concentrations increased slightly to those observed in October 2020 after four (4) consecutive quarters of decline. The Naphthalene groundwater concentration continues to remain below the PAL. The variability of the PAH concentrations in MW-4 appears to be largely influenced by fluctuations in the groundwater table elevation.

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 15th, 23rd, 29th, 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 Limit of Detection with the exception of Perc, Table A.5 only summarizes the Perc results.) The historical sump water sample results are also provided in Figure B.3.b.1a.

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

- Perc has been observed in monitoring well MW-5 at concentrations exceeding the Enforcement Standard since February 2016. The concentrations were observed to be increasing with time until chemical injection was performed in July 2018. Subsequently, Perc concentrations in MW-5, though highly variable, have shown an overall decline since October 2018. The additional chemical injection performed near MW-5 in August 2019 also helped reduce the mass of Perc contamination. However, because there is still Perc in the soil surrounding MW-5, the groundwater Perc concentrations in MW-5 remain at concentrations above the Enforcement Standard. The sampling data from September 2019 through the most recent sampling of May 2021 indicate relatively stable Perc concentrations in MW-5.
- 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 treatment and influent and effluent sampling will continue on a monthly basis.
- The PAH constituents Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene remain at concentrations above the Enforcement Standards in MW-3 and MW-4. Naphthalene concentrations remain below the PAL. PAH concentrations in MW-3 have remained nearly the same since May 2020. Concentrations in MW-4 increased slightly after four (4) consecutive quarters of decline. The quarterly sampling of MW-3 and MW-4 has indicated that groundwater concentrations are variable and are influenced by groundwater fluctuations through impacted backfill. The site-wide presence of fill material (including coal and cinders remaining from the historical use of the property) also likely contributes to the observed PAH groundwater concentrations. (A large portion of the Site exhibits low-level PAH soil contamination.) The most recent sampling data do not indicate an increase or spread of contamination.
- Quarterly groundwater sampling has been conducted since January 2018. The sampling results indicate levels of Perc, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene at concentrations above the Enforcement Standards. The concentrations of Perc in MW-5 are generally stable, and the PAH concentrations in MW-3 and MW-4, though variable, do not indicate an overall increase or further spread of contamination.

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	05/09/21	**0.012**	<0.00032
	01/18/21	**0.01**	<0.00026
	10/12/20	**0.014**	0.00047
	07/14/20	**0.01**	<0.00026
	05/05/20	**0.0088**	<0.00026
	01/17/20	**0.0084**	0.00038 (J)
	10/24/19	**0.012**	0.00039 (J)
	09/05/19	**0.0153**	0.00038 (J)
	07/07/19	**0.0106**	0.00048 (J)
	04/29/19	**0.0114**	**0.00071 (J)**
	01/25/19	**0.0065**	**0.0027**
	10/11/18	**0.021**	0.00027 (J)
	07/30/18	**0.0086**	<0.00026
	04/07/18	**0.0203**	<0.00033
	01/05/18	**0.0181**	<0.00033
	05/30/17	**0.0124**	<0.00033
	02/23/16	**0.0083**	<0.00033
	01/27/15	**0.0026**	<0.00033
	11/12/14 (TW-2)	**0.0026**	<0.00033
PAL[1]		**0.0005**	**0.0005**
Enforcement Standard[2]		**0.005**	**0.005**

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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)

Polynuclear Aromatic	Sample Location (Sample Date)						PAL[1]	ES[2]
	TW-5 (11/13/14)	MW-3 (01/27/15)	MW-3 (05/30/17)	MW-3 (01/05/18)	MW-3 (04/07/18)	MW-3 (07/30/18)		
Acenaphthene	0.00076	0.0000043 (J)	0.000026 (J)	0.0000077 (J)	0.000029	0.000014 (J)	NL	NL
Acenaphthylene	0.00013	0.0000036 (J)	0.000016 (J)	<0.0000045	0.000053	0.000023	NL	NL
Anthracene	0.00056	<0.0000023	0.00013	0.000031 (J)	0.00015	0.000073	0.6	3
Benzo(a)anthracene	0.00069	<0.0000031	0.00073	0.0000069 (J)	0.001	0.00043	NL	NL
Benzo(a)pyrene	**0.0006**	0.000011 (J)	**0.001**	<0.0000096	**0.0019**	**0.00068**	0.00002	0.0002
Benzo(b)fluoranthene	**0.00077**	0.00002 (J)	**0.002**	**0.000037**	**0.0039**	**0.0013**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0004	0.000016 (J)	0.0011	0.00018 (J)	0.0025	0.00082	NL	NL
Benzo(k)fluoranthene	0.00029	0.00001 (J)	0.00068	0.000014 (J)	0.0014	0.00041	NL	NL
Chrysene	**0.00084**	**0.000028 (J)**	**0.0015**	**0.000047 (J)**	**0.003**	**0.00095**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000091	<0.0000032	0.00022	<0.0000091	0.00034	0.00015	NL	NL
Fluoranthene	0.0024	0.000041 (J)	0.0031	0.00021	0.0052	0.0019	0.08	0.4
Fluorene	0.0011	0.0000035 (J)	0.000052	0.000022 (J)	0.000048	0.00004	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0003	0.0000081 (J)	0.00086	<0.000016	0.0021	0.00089	NL	NL
1-Methylnaphthalene	0.002	0.0000091 (J)	0.00018	0.00016	0.000033	0.000033	NL	NL
2-Methylnaphthalene	0.00017	0.0000084 (J)	0.00013	0.00016	0.000024	0.000031	NL	NL
Naphthalene	0.00016	<0.0000056	0.00012	0.00046	0.000051	0.000053 (J)	0.017	0.1
Phenanthrene	0.0021	0.000043 (J)	0.00071	0.000085	0.0013	0.00047	NL	NL
Pyrene	0.0025	0.000059	0.002	0.00011	0.0037	0.0012	0.05	0.25

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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
PNAs via USEPA Method SW8270SIM
NOTE – MW-3 installed to duplicate TW-5

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

Polynuclear Aromatic	Sample Location (Sample Date)						PAL[1]	ES[2]
	MW-3 (10/11/18)	MW-3 (01/25/19)	MW-3 (04/29/19)	MW-3 (07/07/19)	MW-3 (10/24/19)	MW-3 (01/17/20)		
Acenaphthene	0.00001 (J)	0.0000068 (J)	0.0015	0.000023 (J)	0.00016	0.0003	NL	NL
Acenaphthylene	<0.0000045	<0.0000047	0.0027	0.000084	0.00043	0.0002	NL	NL
Anthracene	0.00002 (J)	0.000027 (J)	0.0089	0.00013	0.00088	0.00028	0.6	3
Benzo(a)anthracene	0.000017 (J)	0.000053	0.11	0.00087	0.009	0.0042	NL	NL
Benzo(a)pyrene	**0.000024 (J)**	**0.00017**	**0.115**	**0.0019**	**0.015**	**0.0063**	0.00002	0.0002
Benzo(b)fluoranthene	**0.000074**	**0.00034**	**0.209**	**0.0036**	**0.03**	**0.0104**	0.00002	0.0002
Benzo(g,h,i)perylene	0.000037	0.00023	0.132	0.0025	0.018	0.0072	NL	NL
Benzo(k)fluoranthene	0.000026 (J)	0.00012	0.0643	0.0016	0.0095	0.004	NL	NL
Chrysene	**0.000079**	**0.00028**	**0.13**	**0.0026**	**0.016**	**0.0013**	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000009	0.000034 (J)	0.0258	0.00028	0.0034	0.0117	NL	NL
Fluoranthene	0.00026	0.00043	**0.248**	0.0035	0.025	0.0005	0.08	0.4
Fluorene	0.000031 (J)	0.000014 (J)	0.0028	0.000037	0.00022	0.00004	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.000027 (J)	0.00016	0.108	0.0019	0.014	0.0056	NL	NL
1-Methylnaphthalene	0.000019 (J)	0.000013 (J)	0.0003	0.000011 (J)	--	0.00039	NL	NL
2-Methylnaphthalene	0.000015 (J)	0.000012 (J)	0.00025	0.000014 (J)	--	0.000048	NL	NL
Naphthalene	0.000032 (J)	0.000022 (J)	0.00035	0.000019 (J)	0.00015	0.0001	0.017	0.1
Phenanthrene	0.000093	0.00011	0.066	0.00079	0.0061	0.003	NL	NL
Pyrene	0.0002	0.00031	**0.21**	0.0029	0.024	0.011	0.05	0.25

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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
PNAs via USEPA Method SW8270SIM

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

Polynuclear Aromatic	Sample Location (Sample Date)					PAL[1]	ES[2]
	MW-3 (05/05/20)	MW-3 (07/14/20)	MW-3 (10/12/20)	MW-3 (01/18/21)	MW-3 (05/03/21)		
Acenaphthene	0.000013 (J)	0.000026	0.00022	0.0028	0.00035	NL	NL
Acenaphthylene	0.00002 (J)	0.00034	0.000075	0.000096	0.00012	NL	NL
Anthracene	0.000086	0.00016	0.00016	0.00033	0.00065	0.6	3
Benzo(a)anthracene	0.00066	0.00057	0.00076	0.0014	0.0013	NL	NL
Benzo(a)pyrene	**0.0011**	**0.0012**	**0.0013**	**0.0024**	**0.0024**	0.00002	0.0002
Benzo(b)fluoranthene	**0.0023**	**0.0022**	**0.0027**	**0.005**	**0.0054**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0015	0.0017	0.0017	0.0032	0.0028	NL	NL
Benzo(k)fluoranthene	0.00078	0.00092	0.0009	0.0016	0.0021	NL	NL
Chrysene	**0.0012**	**0.0014**	**0.0015**	**0.0028**	**0.005**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.00026	0.00027	0.00027	0.00058	0.00043	NL	NL
Fluoranthene	0.0018	0.0028	0.0024	0.0045	0.015	0.08	0.4
Fluorene	0.000014 (J)	0.00004	0.00025	0.00018	0.00065	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0012	0.0014	0.0013	0.0025	0.0024	NL	NL
1-Methylnaphthalene	<0.0000057	0.000024	0.00027	0.00016	-	NL	NL
2-Methylnaphthalene	<0.0000048	0.000015	0.000091	0.00002 (J)	-	NL	NL
Naphthalene	<0.000018	0.00003	0.0001	0.00013	0.0001 (J)	0.017	0.1
Phenanthrene	0.00046	0.00038	0.00086	0.0012	0.013	NL	NL
Pyrene	0.0015	0.0016	0.0021	0.0041	0.0095	0.05	0.25

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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
PNAs via USEPA Method SW8270SIM

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

Polynuclear Aromatic	Sample Location (Sample Date)						PAL[1]	ES[2]
	TW-6 (11/13/14)	MW-4 (01/27/15)	MW-4 (02/23/16)	MW-4 (05/30/17)	MW-4 (01/05/18)	MW-4 (04/07/18)		
Acenaphthene	0.00049	0.0000039 (J)	0.00056	0.0386	0.0246	0.0031	NL	NL
Acenaphthylene	0.00012	0.000084	0.000073	0.0166	0.0083	0.00073	NL	NL
Anthracene	0.00006	0.00006	0.00011	0.0018 (J)	0.0019	0.00051	0.6	3
Benzo(a)anthracene	0.000013 (J)	<0.0000032	0.0000082 (J)	0.00044 (J)	<0.00014	0.000012 (J)	NL	NL
Benzo(a)pyrene	0.0000053 (J)	0.000017 (J)	0.000006 (J)	**<0.00049**	**<0.0002**	<0.0000095	0.00002	0.0002
Benzo(b)fluoranthene	0.0000093 (J)	**0.000043 (J)**	0.000014 (J)	**<0.00027**	**0.00022 (J)**	0.0000096 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000071 (J)	0.000025 (J)	0.0000081 (J)	<0.00031	<0.00013	<0.0000061	NL	NL
Benzo(k)fluoranthene	<0.000005	0.000021 (J)	<0.0000051	<0.00035	<0.00014	<0.0000068	NL	NL
Chrysene	**0.000021 (J)**	**0.000042 (J)**	0.000017 (J)	**0.0018 (J)**	**0.001 (J)**	**0.000031 (J)**	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000035	<0.0000033	<0.0000051	<0.00046	<0.00019	<0.000009	NL	NL
Fluoranthene	0.00004 (J)	0.000049	0.00003 (J)	0.0037	0.0046	0.0001	0.08	0.4
Fluorene	0.00061	0.000031 (J)	0.00051	0.0759	0.0504	0.0053	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0000044 (J)	0.000017 (J)	0.0000056 (J)	<0.00082	<0.00033	<0.000016	NL	NL
1-Methylnaphthalene	0.0087	0.000076	0.0041	0.357	0.183	0.0109	NL	NL
2-Methylnaphthalene	0.0065	0.000066	0.000037 (J)	0.0747	0.0126	0.00026	NL	NL
Naphthalene	0.0022	0.00027	0.00017	**0.0243**	**0.0151**	0.0022	0.017	0.1
Phenanthrene	0.00062	0.000033 (J)	0.00029	0.165	0.102	0.0033	NL	NL
Pyrene	0.00006	0.0001	0.000081	0.0165	0.0102	0.00032	0.05	0.25

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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
PNAs via USEPA Method SW8270SIM
NOTE – MW-4 installed to duplicate TW-6

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

Polynuclear Aromatic	Sample Location (Sample Date)						PAL[1]	ES[2]
	MW-4 (07/30/18)	MW-4 (10/11/18)	MW-4 (01/25/19)	MW-4 (04/29/19)	MW-4 (07/07/19)	MW-4 (10/24/19)		
Acenaphthene	0.0021	0.004	0.0016	0.0033	0.0028	0.01	NL	NL
Acenaphthylene	0.00064	0.00091	0.00024	0.00059	0.0005	0.0029	NL	NL
Anthracene	0.00024	0.001	0.000093	0.00033	0.00044	0.0068	0.6	3
Benzo(a)anthracene	<0.000035	0.00004 (J)	0.0000076 (J)	0.000061	<0.000026	0.00069	NL	NL
Benzo(a)pyrene	**<0.000048**	**<0.000029**	<0.0000095	**0.000041 (J)**	<0.000037	**0.00045**	0.00002	0.0002
Benzo(b)fluoranthene	**<0.000026**	**0.000022**	0.000012 (J)	**0.000093**	<0.00002	**0.00086**	0.00002	0.0002
Benzo(g,h,i)perylene	<0.000031	<0.000018	<0.0000061	0.000045	<0.000024	0.00049	NL	NL
Benzo(k)fluoranthene	<0.000035	<0.000021	0.000016 (J)	0.00005	<0.000026	0.00038	NL	NL
Chrysene	**<0.00006**	**0.000084 (J)**	**0.000033 (J)**	**0.00017**	<0.000046	**0.0016**	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000046	<0.000027	<0.000009	0.0000091 (J)	<0.000035	0.000074 (J)	NL	NL
Fluoranthene	0.000061 (J)	0.00019	0.000091	0.0004	0.00011 (J)	0.0026	0.08	0.4
Fluorene	0.0035	0.0067	0.0022	0.0046	0.0044	0.019	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.000081	<0.000048	<0.000016	0.00004 (J)	<0.000062	0.00033 (J)	NL	NL
1-Methylnaphthalene	0.0395	0.0268	0.006	0.0151	0.0174	--	NL	NL
2-Methylnaphthalene	0.00051	0.00021	0.000048	0.00026	0.00048	--	NL	NL
Naphthalene	0.0015	0.00081	0.00078	0.0014	0.0034	0.0026	0.017	0.1
Phenanthrene	0.0031	0.0059	0.00077	0.0037	0.0013	0.026	NL	NL
Pyrene	0.00017 (J)	0.0001	0.00021	0.0014	0.00037	0.0096	0.05	0.25

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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
PNAs via USEPA Method SW8270SIM

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

Polynuclear Aromatic	Sample Location (Sample Date)						PAL[1]	ES[2]
	MW-4 (01/17/20)	MW-4 (05/05/20)	MW-4 (07/14/20)	MW-4 (10/12/20)	MW-4 (01/18/21)	MW-4 (05/03/21)		
Acenaphthene	0.0357	0.097	0.047	0.016	0.012	0.015	NL	NL
Acenaphthylene	0.0114	0.029	0.011	0.0033	0.003	0.0053	NL	NL
Anthracene	0.0063	0.014	0.017	0.0057	0.0056	0.01	0.6	3
Benzo(a)anthracene	0.0036	0.0016 (J)	0.0014	0.00062 (J)	0.00029 (J)	0.00089	NL	NL
Benzo(a)pyrene	**0.0031**	**0.0012 (J)**	**0.00046 (J)**	**0.00029 (J)**	**0.00013 (J)**	**0.0003 (J)**	0.00002	0.0002
Benzo(b)fluoranthene	**0.0056**	**0.0032**	**0.00098**	**0.00065**	**0.00029**	**0.00061**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0032	0.0019	0.00054	0.00035 (J)	0.00016 (J)	0.00033	NL	NL
Benzo(k)fluoranthene	0.0022	0.00089 (J)	0.00055	0.0003 (J)	0.000096 (J)	0.0002 (J)	NL	NL
Chrysene	**0.0074**	**0.005**	**0.0038**	**0.0015**	**0.00082**	**0.0022**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000061 (J)	<0.00048	<0.00018	<0.00018	<0.00009	<0.00009	NL	NL
Fluoranthene	0.0128	0.015	0.008	0.0026	0.0016	0.0035	0.08	0.4
Fluorene	0.0576	**0.15**	0.055	0.017	0.014	0.029	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0025	0.00096 (J)	0.00036 (J)	<0.00032	<0.00016	0.00021 (J)	NL	NL
1-Methylnaphthalene	0.0947	0.24	0.087	0.03	0.021	-	NL	NL
2-Methylnaphthalene	0.0032	0.003	0.0018	0.00079	0.00052	-	NL	NL
Naphthalene	0.0074	**0.035**	**0.025**	0.007	0.0055	0.0091	0.017	0.1
Phenanthrene	0.0992	0.26	0.082	0.026	0.022	0.049	NL	NL
Pyrene	0.0344	0.049	0.028	0.01	0.0067	0.016	0.05	0.25

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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
PNAs via USEPA Method SW8270SIM

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

Sample Location	Sample Date	Tetrachloroethene
Sump	05/03/21	**0.016**
	04/06/21	**0.012**
	03/08/21	**0.01**
	02/02/21	**0.014**
	01/12/21	**0.005**
	12/09/20	**0.0048**
	11/12/20	**0.0068**
	10/12/20	**0.009**
	09/03/20	**0.0065**
	08/17/20	**0.01**
	07/14/20	**0.0078**
	06/03/20	**0.0068**
	05/05/20	**0.0054**
	04/06/20	**0.005**
	03/10/20	**0.0063**
	02/03/20	**0.006**
	01/07/20	**0.0065**
	12/03/19	**0.0068**
	11/04/19	**0.008**
	10/02/19	**0.0069**
	09/05/19	**0.0076**
	08/02/19	**0.005**
	07/19/19	**0.0062**
	06/25/19	**0.0054**
	06/06/19	**0.0069**
	05/29/19	**0.0043**
	05/23/19	**0.0042**
	05/15/19	**0.0093**
	02/04/19	**0.0064**
	01/05/18	**0.0082**
	06/04/17	**0.006**
PAL[1]		**0.0005**
Enforcement Standard[2]		**0.005**

[1] – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
[2] – 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

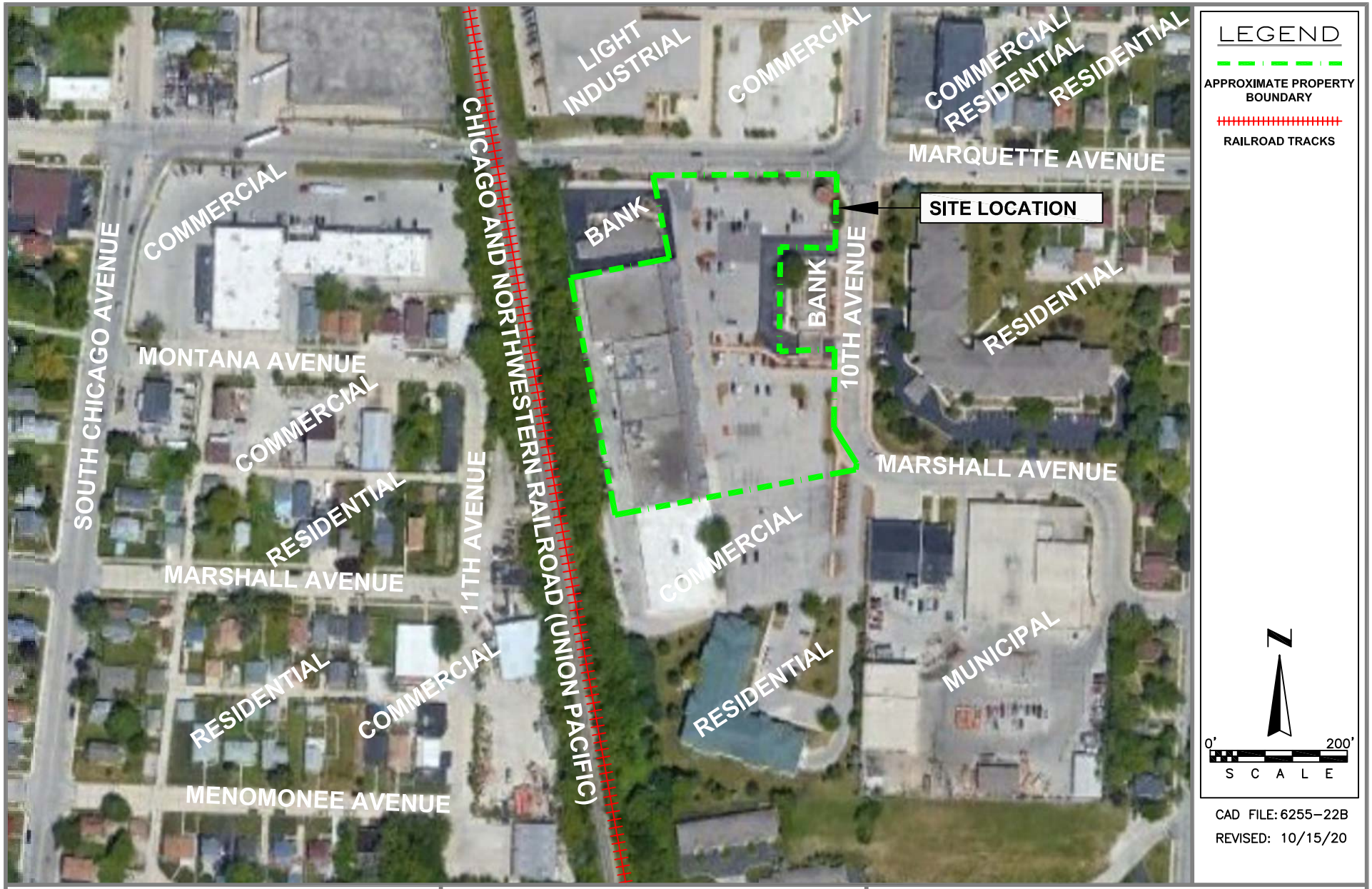
Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-1	99.13	05/03/21	2.97	14.49	96.16
		01/18/21	3.34		95.79
		10/12/20	Obstructed		--
		07/14/20	1.79		97.34
		05/05/20	1.80		97.33
		01/17/20	2.74		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	100.75	05/03/21	7.55	14.41	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
		10/14/19	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
MW-3	100.05	05/03/21	3.45	14.46	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
		10/14/19	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

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-4	100.57	05/03/21	6.19	14.57	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
MW-5	100.24	05/03/21	6.25	14.60	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	100.10	05/03/21	7.56	14.57	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

* – Relative Elevation based upon generic 100-ft on-site datum and survey data collected on January 27, 2015, and March 30, 2015.

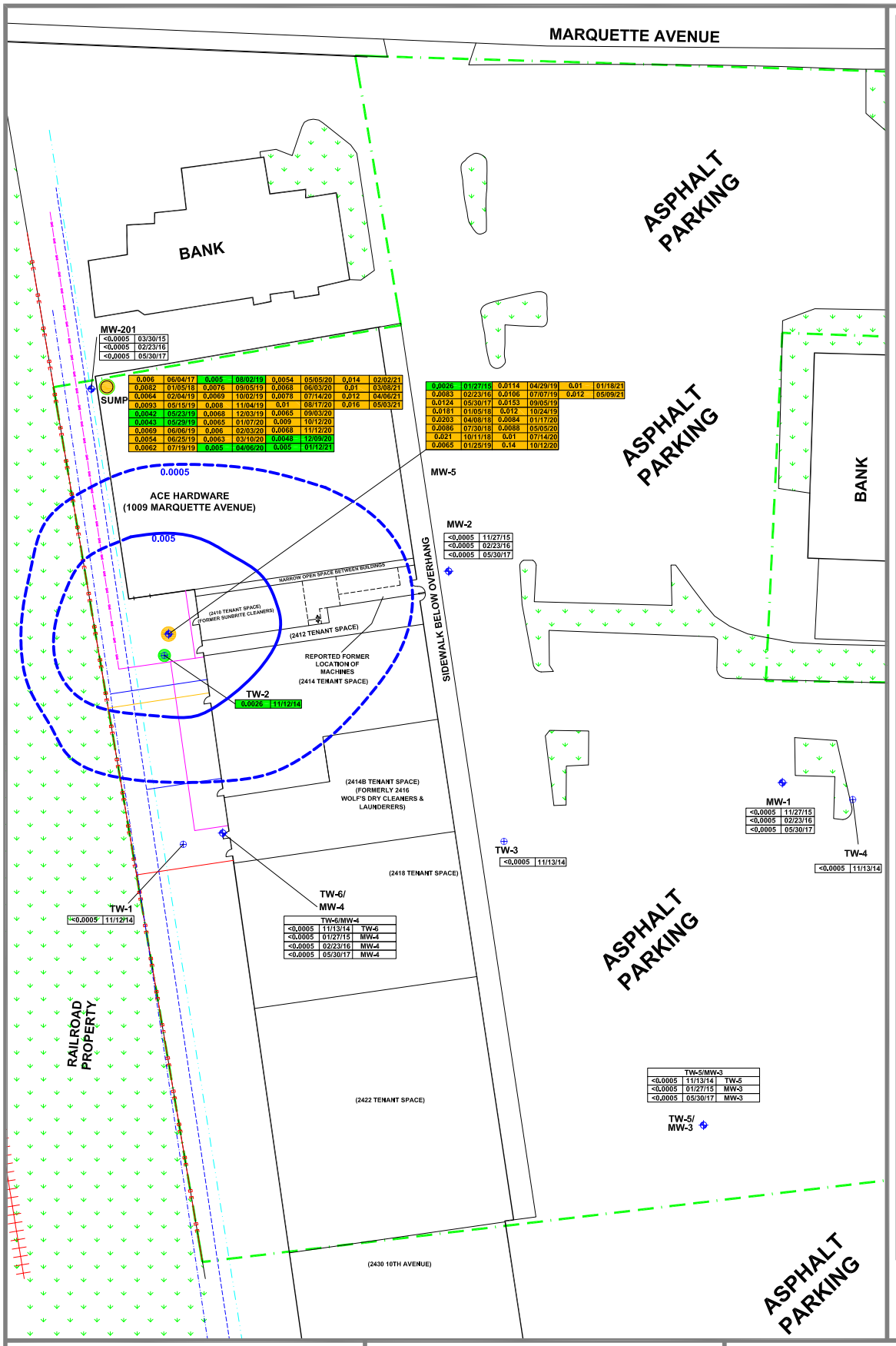
APPENDIX B
FIGURES



ENVIRONMENTAL DAI

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

- 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 PERC
- OBSERVED PAL AND ES EXCEEDANCE FOR PERC

PERC CONC. mg/L	SAMPLE DATE

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

N

0' 65'

S C A L E

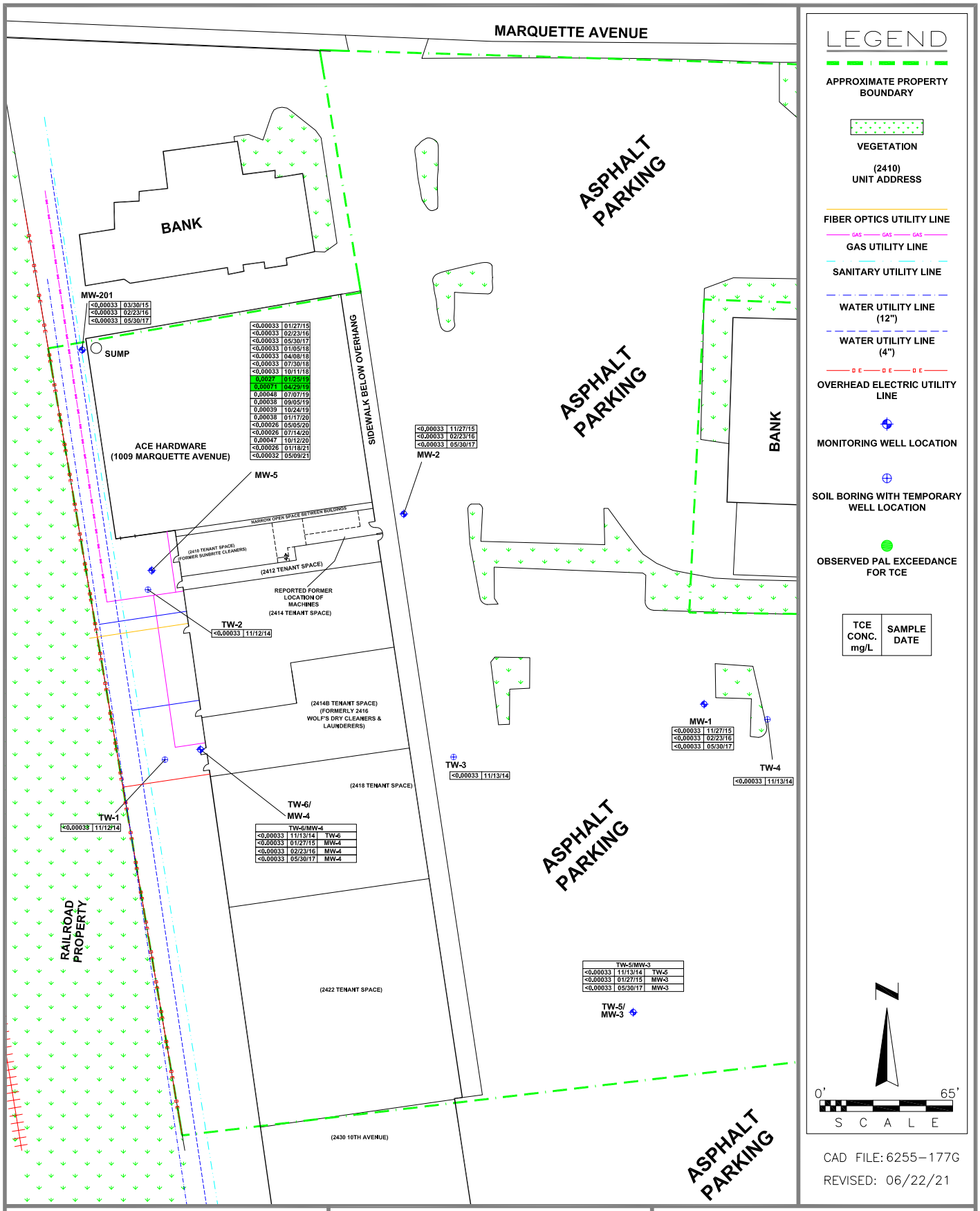
CAD FILE: 6255-133M

REVISED: 06/22/21

ENVIRONMENTAL

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

N

0' 65'

S C A L E

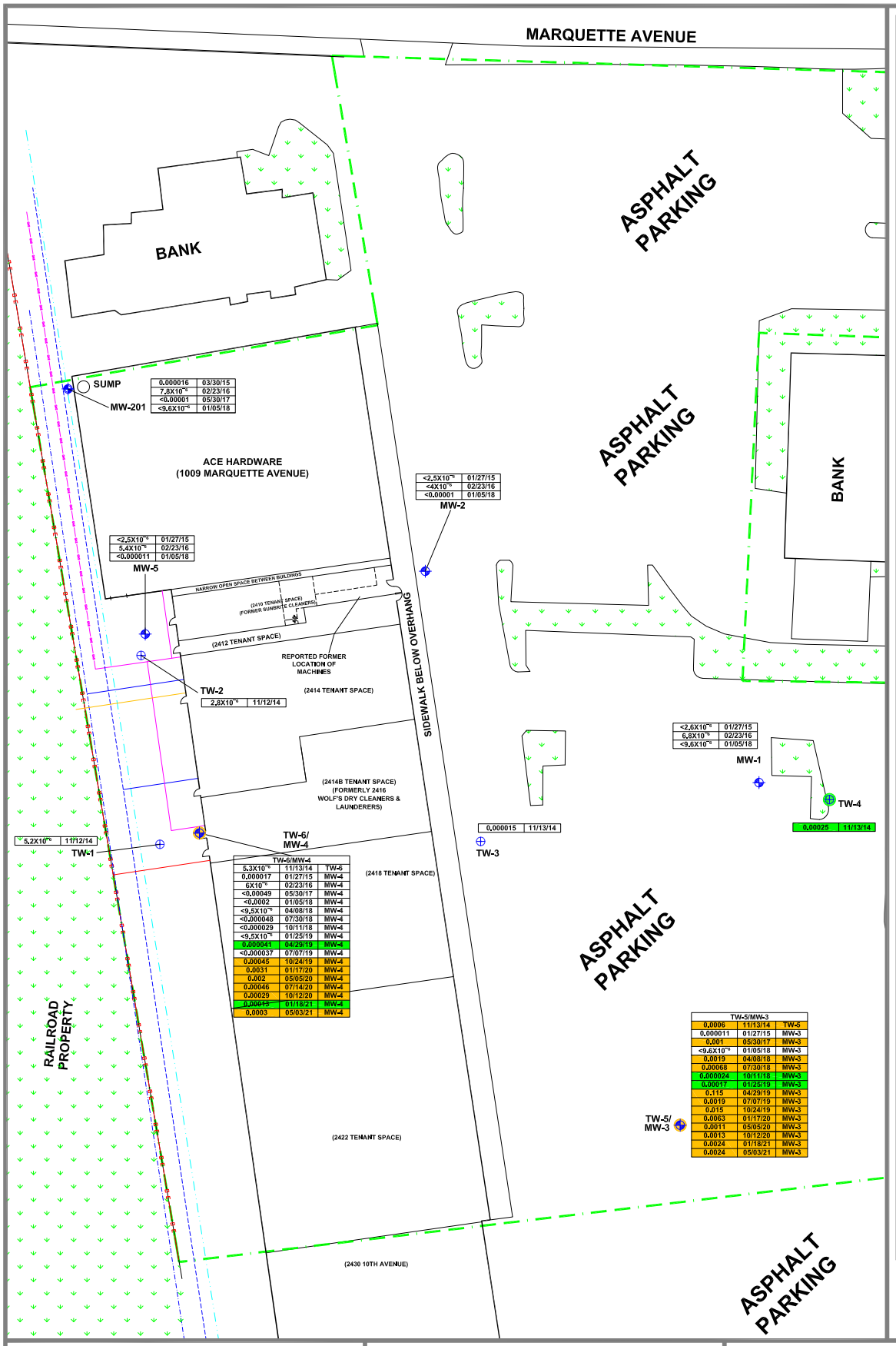
CAD FILE: 6255-177G

REVISED: 06/22/21

ENVIRONMENTAL DAI

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

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



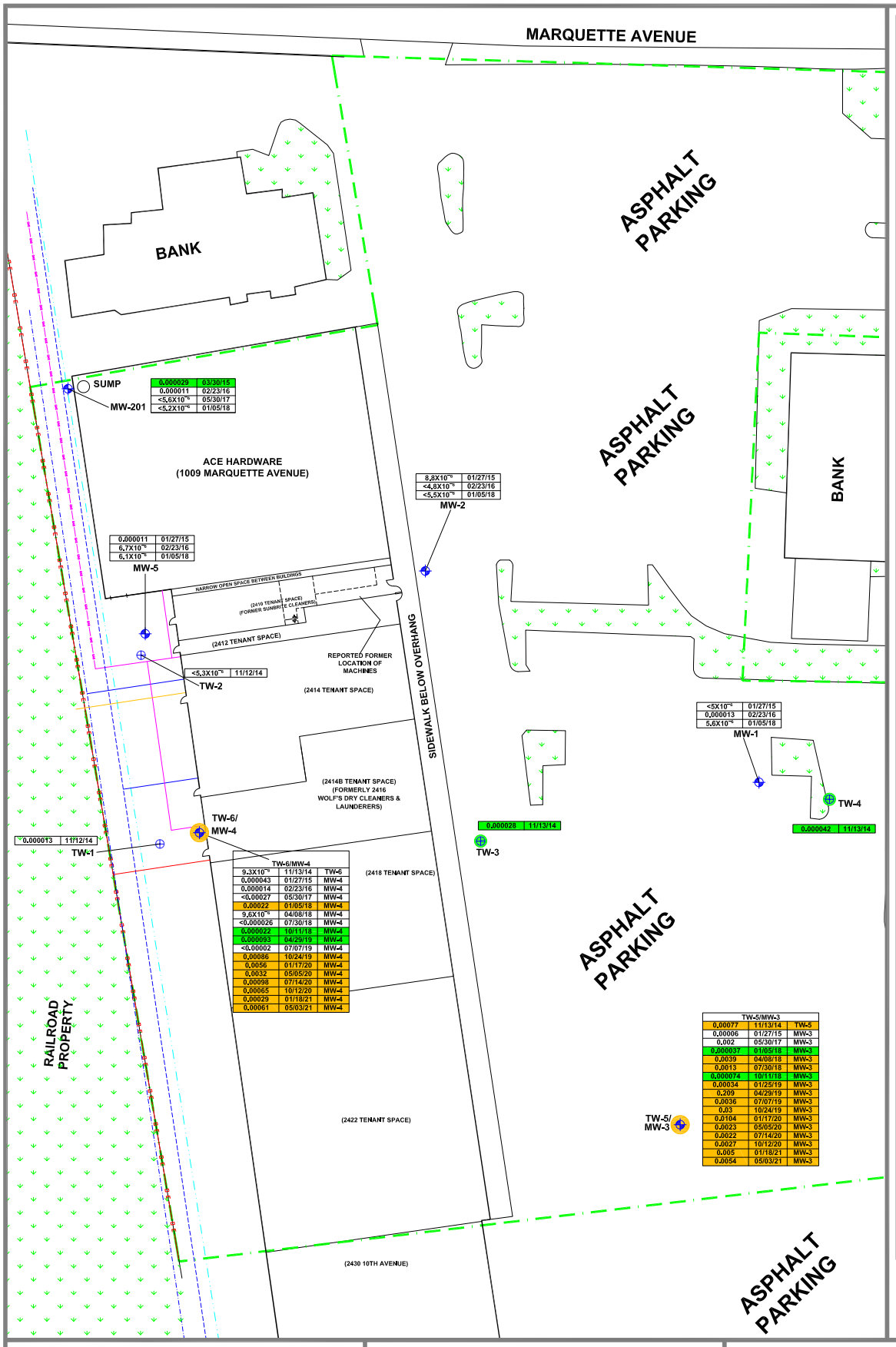
CAD FILE: 6255-178G

REVISED: 06/22/21

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

N

0' 65'

S C A L E

CAD FILE: 6255-179G

REVISED: 06/22/21

ENVIRONMENTAL DAI

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

N

0' 65'

S C A L E

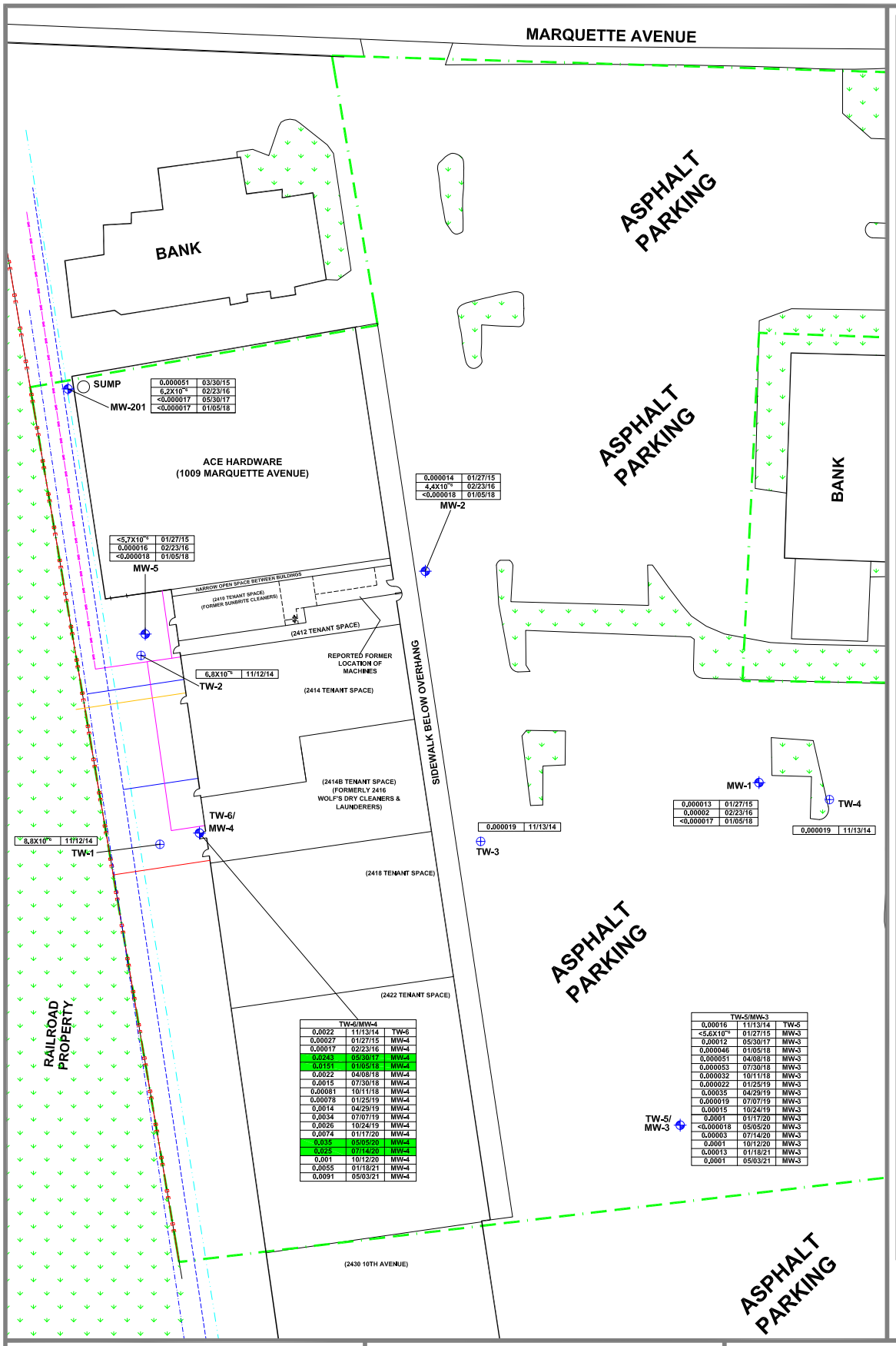
CAD FILE: 6255-180G

REVISED: 06/22/21

ENVIRONMENTAL DAI

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

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



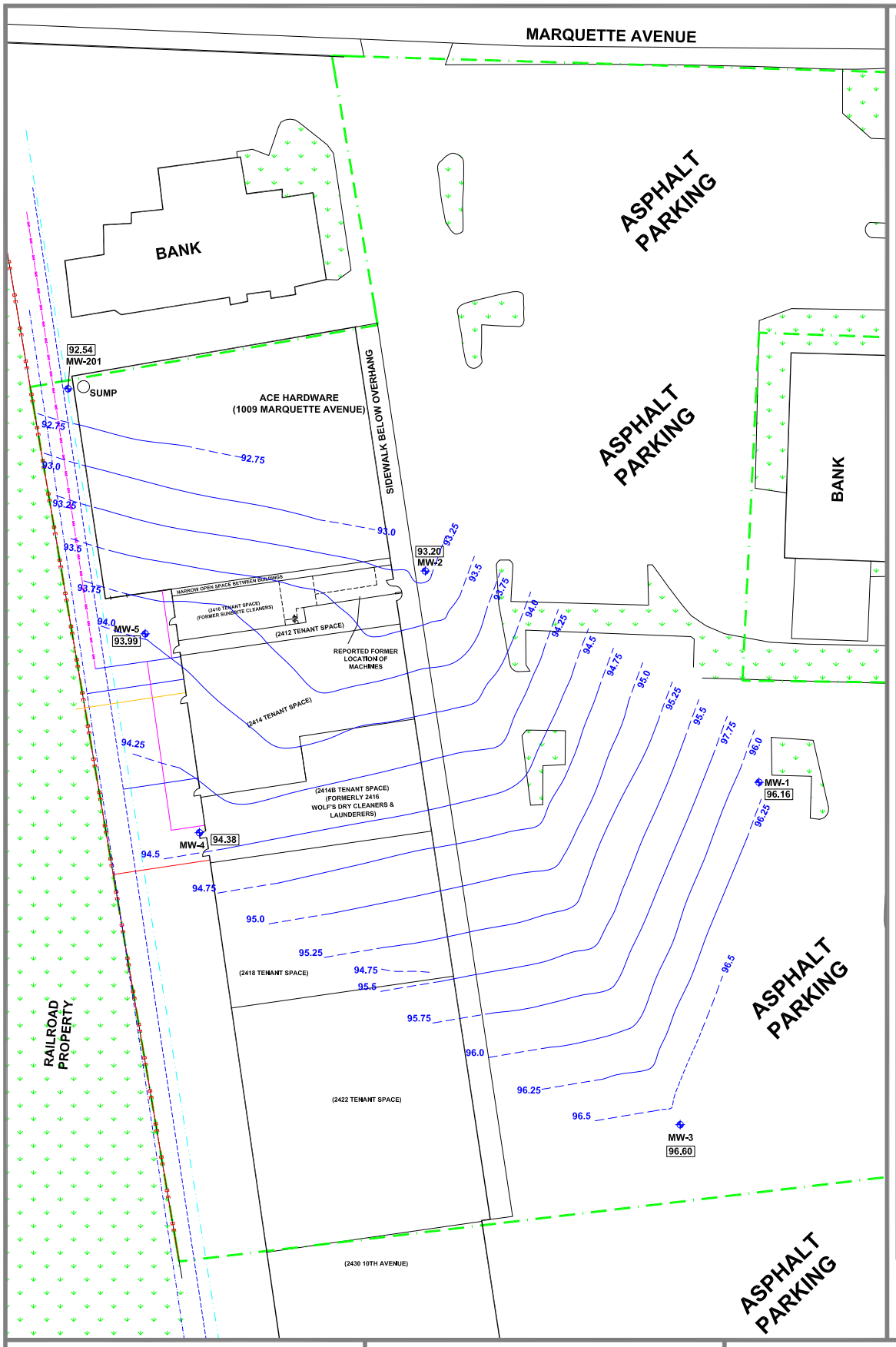
CAD FILE: 6255-181G

REVISED: 06/22/21

ENVIRONMENTAL

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

POTENTIOMETRIC SURFACE

INFERRED POTENTIOMETRIC SURFACE

N

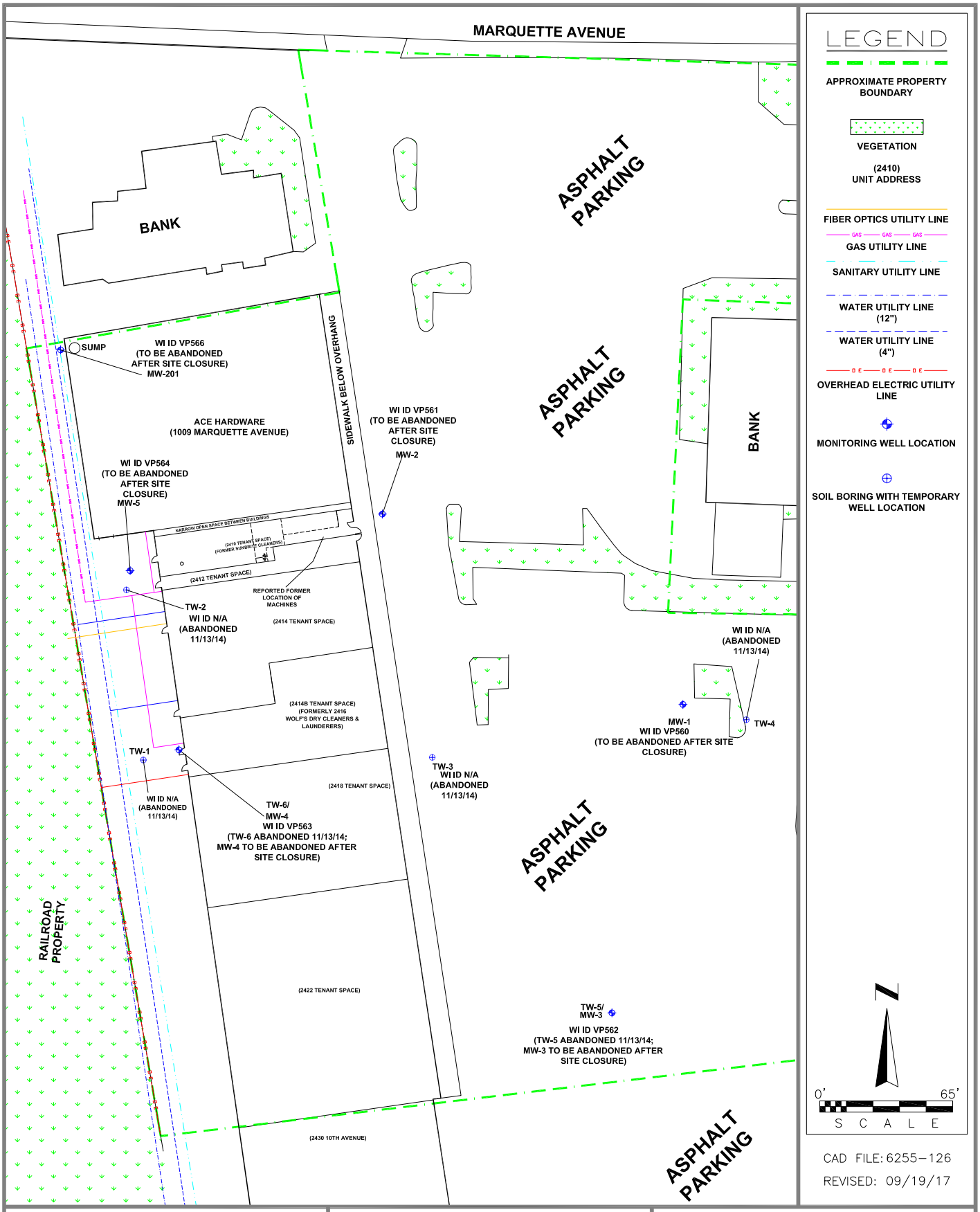
0' 65'
S C A L E

CAD FILE: 6255-168J
REVISED: 06/30/21

ENVIRONMENTAL DAI

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

FIGURE B.3.c.17
GROUNDWATER FLOW DIRECTION
(MAY 3, 2021)



CAD FILE: 6255-126

REVISED: 09/19/17

DAI ENVIRONMENTAL

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

FIGURE B.3.d
MONITORING WELLS

APPENDIX C.1.E
LABORATORY ANALYTICAL REPORTS
(SECOND QUARTER 2021)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 13, 2021

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

RE: Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2021. 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,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40226391001	**MW-3**	Water	05/03/21 10:50	05/06/21 08:50
40226391002	**MW-4**	Water	05/03/21 10:30	05/06/21 08:50
40226391003	**MW-5**	Water	05/03/21 10:05	05/06/21 08:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40226391001	**MW-3**	EPA 8270E by SIM	JJB	18
40226391002	**MW-4**	EPA 8270E by SIM	JJB	18

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40226391001	**MW-3**					
EPA 8270E by SIM	Acenaphthene	0.00035	mg/L	0.00011	05/10/21 11:21	
EPA 8270E by SIM	Acenaphthylene	0.00012	mg/L	0.000090	05/10/21 11:21	
EPA 8270E by SIM	Anthracene	0.00065	mg/L	0.00019	05/10/21 11:21	
EPA 8270E by SIM	Benzo(a)anthracene	0.0013	mg/L	0.00014	05/10/21 11:21	
EPA 8270E by SIM	Benzo(a)pyrene	0.0024	mg/L	0.00019	05/10/21 11:21	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.0054	mg/L	0.00010	05/10/21 11:21	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.0028	mg/L	0.00012	05/10/21 11:21	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.0021	mg/L	0.00014	05/10/21 11:21	
EPA 8270E by SIM	Chrysene	0.0050	mg/L	0.00024	05/10/21 11:21	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.00043	mg/L	0.00018	05/10/21 11:21	
EPA 8270E by SIM	Fluoranthene	0.015	mg/L	0.00019	05/10/21 11:21	
EPA 8270E by SIM	Fluorene	0.00065	mg/L	0.00014	05/10/21 11:21	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.0024	mg/L	0.00032	05/10/21 11:21	
EPA 8270E by SIM	Naphthalene	0.00010J	mg/L	0.00033	05/10/21 11:21	
EPA 8270E by SIM	Phenanthrene	0.013	mg/L	0.00025	05/10/21 11:21	
EPA 8270E by SIM	Pyrene	0.0095	mg/L	0.00014	05/10/21 11:21	
40226391002	**MW-4**					
EPA 8270E by SIM	Acenaphthene	0.015	mg/L	0.00027	05/10/21 11:39	
EPA 8270E by SIM	Acenaphthylene	0.0053	mg/L	0.00022	05/10/21 11:39	
EPA 8270E by SIM	Anthracene	0.010	mg/L	0.00047	05/10/21 11:39	
EPA 8270E by SIM	Benzo(a)anthracene	0.00089	mg/L	0.00034	05/10/21 11:39	
EPA 8270E by SIM	Benzo(a)pyrene	0.00030J	mg/L	0.00047	05/10/21 11:39	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.00061	mg/L	0.00026	05/10/21 11:39	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.00033	mg/L	0.00031	05/10/21 11:39	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.00020J	mg/L	0.00034	05/10/21 11:39	
EPA 8270E by SIM	Chrysene	0.0022	mg/L	0.00059	05/10/21 11:39	
EPA 8270E by SIM	Fluoranthene	0.0035	mg/L	0.00048	05/10/21 11:39	
EPA 8270E by SIM	Fluorene	0.029	mg/L	0.00036	05/10/21 11:39	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.00021J	mg/L	0.00079	05/10/21 11:39	
EPA 8270E by SIM	Naphthalene	0.0091	mg/L	0.00083	05/10/21 11:39	
EPA 8270E by SIM	Phenanthrene	0.049	mg/L	0.00062	05/10/21 11:39	
EPA 8270E by SIM	Pyrene	0.016	mg/L	0.00034	05/10/21 11:39	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Sample: MW-3 **Lab ID: 40226391001** Collected: 05/03/21 10:50 Received: 05/06/21 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.00035**	mg/L	0.00011	0.000022	4	05/07/21 09:38	05/10/21 11:21	83-32-9	
Acenaphthylene	**0.00012**	mg/L	0.000090	0.000018	4	05/07/21 09:38	05/10/21 11:21	208-96-8	
Anthracene	**0.00065**	mg/L	0.00019	0.000038	4	05/07/21 09:38	05/10/21 11:21	120-12-7	
Benzo(a)anthracene	**0.0013**	mg/L	0.00014	0.000027	4	05/07/21 09:38	05/10/21 11:21	56-55-3	
Benzo(a)pyrene	**0.0024**	mg/L	0.00019	0.000038	4	05/07/21 09:38	05/10/21 11:21	50-32-8	
Benzo(b)fluoranthene	**0.0054**	mg/L	0.00010	0.000021	4	05/07/21 09:38	05/10/21 11:21	205-99-2	
Benzo(g,h,i)perylene	**0.0028**	mg/L	0.00012	0.000024	4	05/07/21 09:38	05/10/21 11:21	191-24-2	
Benzo(k)fluoranthene	**0.0021**	mg/L	0.00014	0.000027	4	05/07/21 09:38	05/10/21 11:21	207-08-9	
Chrysene	**0.0050**	mg/L	0.00024	0.000047	4	05/07/21 09:38	05/10/21 11:21	218-01-9	
Dibenz(a,h)anthracene	**0.00043**	mg/L	0.00018	0.000036	4	05/07/21 09:38	05/10/21 11:21	53-70-3	
Fluoranthene	**0.015**	mg/L	0.00019	0.000038	4	05/07/21 09:38	05/10/21 11:21	206-44-0	
Fluorene	**0.00065**	mg/L	0.00014	0.000029	4	05/07/21 09:38	05/10/21 11:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0024**	mg/L	0.00032	0.000064	4	05/07/21 09:38	05/10/21 11:21	193-39-5	
Naphthalene	**0.00010J**	mg/L	0.00033	0.000066	4	05/07/21 09:38	05/10/21 11:21	91-20-3	
Phenanthrene	**0.013**	mg/L	0.00025	0.000050	4	05/07/21 09:38	05/10/21 11:21	85-01-8	
Pyrene	**0.0095**	mg/L	0.00014	0.000028	4	05/07/21 09:38	05/10/21 11:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%	39-120		4	05/07/21 09:38	05/10/21 11:21	321-60-8	
Terphenyl-d14 (S)	23	%	10-159		4	05/07/21 09:38	05/10/21 11:21	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Sample: MW-4 **Lab ID: 40226391002** Collected: 05/03/21 10:30 Received: 05/06/21 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.015**	mg/L	0.00027	0.000055	10	05/07/21 09:38	05/10/21 11:39	83-32-9	
Acenaphthylene	**0.0053**	mg/L	0.00022	0.000045	10	05/07/21 09:38	05/10/21 11:39	208-96-8	
Anthracene	**0.010**	mg/L	0.00047	0.000094	10	05/07/21 09:38	05/10/21 11:39	120-12-7	
Benzo(a)anthracene	**0.00089**	mg/L	0.00034	0.000068	10	05/07/21 09:38	05/10/21 11:39	56-55-3	
Benzo(a)pyrene	**0.00030J**	mg/L	0.00047	0.000095	10	05/07/21 09:38	05/10/21 11:39	50-32-8	
Benzo(b)fluoranthene	**0.00061**	mg/L	0.00026	0.000052	10	05/07/21 09:38	05/10/21 11:39	205-99-2	
Benzo(g,h,i)perylene	**0.00033**	mg/L	0.00031	0.000061	10	05/07/21 09:38	05/10/21 11:39	191-24-2	
Benzo(k)fluoranthene	**0.00020J**	mg/L	0.00034	0.000068	10	05/07/21 09:38	05/10/21 11:39	207-08-9	
Chrysene	**0.0022**	mg/L	0.00059	0.00012	10	05/07/21 09:38	05/10/21 11:39	218-01-9	
Dibenz(a,h)anthracene	**<0.000090**	mg/L	0.00045	0.000090	10	05/07/21 09:38	05/10/21 11:39	53-70-3	
Fluoranthene	**0.0035**	mg/L	0.00048	0.000096	10	05/07/21 09:38	05/10/21 11:39	206-44-0	
Fluorene	**0.029**	mg/L	0.00036	0.000072	10	05/07/21 09:38	05/10/21 11:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.00021J**	mg/L	0.00079	0.00016	10	05/07/21 09:38	05/10/21 11:39	193-39-5	
Naphthalene	**0.0091**	mg/L	0.00083	0.00017	10	05/07/21 09:38	05/10/21 11:39	91-20-3	
Phenanthrene	**0.049**	mg/L	0.00062	0.00012	10	05/07/21 09:38	05/10/21 11:39	85-01-8	
Pyrene	**0.016**	mg/L	0.00034	0.000069	10	05/07/21 09:38	05/10/21 11:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	39-120		10	05/07/21 09:38	05/10/21 11:39	321-60-8	
Terphenyl-d14 (S)	49	%	10-159		10	05/07/21 09:38	05/10/21 11:39	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

QC Batch: 384564
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40226391001, 40226391002

METHOD BLANK: 2218374 Matrix: Water
Associated Lab Samples: 40226391001, 40226391002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	mg/L	<0.0000061	0.000030	0.0000061	05/07/21 14:51	
Acenaphthylene	mg/L	<0.0000050	0.000025	0.0000050	05/07/21 14:51	
Anthracene	mg/L	<0.000010	0.000052	0.000010	05/07/21 14:51	
Benzo(a)anthracene	mg/L	<0.0000076	0.000038	0.0000076	05/07/21 14:51	
Benzo(a)pyrene	mg/L	<0.000011	0.000053	0.000011	05/07/21 14:51	
Benzo(b)fluoranthene	mg/L	<0.0000057	0.000029	0.0000057	05/07/21 14:51	
Benzo(g,h,i)perylene	mg/L	<0.0000068	0.000034	0.0000068	05/07/21 14:51	
Benzo(k)fluoranthene	mg/L	<0.0000076	0.000038	0.0000076	05/07/21 14:51	
Chrysene	mg/L	<0.000013	0.000065	0.000013	05/07/21 14:51	
Dibenz(a,h)anthracene	mg/L	<0.000010	0.000050	0.000010	05/07/21 14:51	
Fluoranthene	mg/L	<0.000011	0.000053	0.000011	05/07/21 14:51	
Fluorene	mg/L	<0.0000080	0.000040	0.0000080	05/07/21 14:51	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000018	0.000088	0.000018	05/07/21 14:51	
Naphthalene	mg/L	<0.000018	0.000092	0.000018	05/07/21 14:51	
Phenanthrene	mg/L	<0.000014	0.000069	0.000014	05/07/21 14:51	
Pyrene	mg/L	<0.0000076	0.000038	0.0000076	05/07/21 14:51	
2-Fluorobiphenyl (S)	%	54	39-120		05/07/21 14:51	
Terphenyl-d14 (S)	%	89	10-159		05/07/21 14:51	

LABORATORY CONTROL SAMPLE & LCSD: 2218375 2218376

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	mg/L	0.002	0.0014	0.0014	68	70	49-120	3	24	
Acenaphthylene	mg/L	0.002	0.0013	0.0013	65	67	43-85	3	26	
Anthracene	mg/L	0.002	0.0013	0.0013	65	67	57-110	3	28	
Benzo(a)anthracene	mg/L	0.002	0.0014	0.0015	71	75	47-118	5	27	
Benzo(a)pyrene	mg/L	0.002	0.0015	0.0016	74	80	70-120	7	20	
Benzo(b)fluoranthene	mg/L	0.002	0.0014	0.0015	72	76	54-97	6	21	
Benzo(g,h,i)perylene	mg/L	0.002	0.0011	0.0011	54	56	26-74	4	42	
Benzo(k)fluoranthene	mg/L	0.002	0.0017	0.0018	84	89	73-126	6	22	
Chrysene	mg/L	0.002	0.0017	0.0017	83	84	75-151	2	20	
Dibenz(a,h)anthracene	mg/L	0.002	0.00097	0.0010	48	51	13-72	6	50	
Fluoranthene	mg/L	0.002	0.0015	0.0016	77	80	63-120	4	20	
Fluorene	mg/L	0.002	0.0014	0.0014	68	71	53-120	5	26	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0014	0.0014	69	70	51-101	3	27	
Naphthalene	mg/L	0.002	0.0014	0.0014	68	69	41-120	1	24	
Phenanthrene	mg/L	0.002	0.0015	0.0016	75	78	47-100	4	22	
Pyrene	mg/L	0.002	0.0016	0.0017	80	83	70-128	4	20	
2-Fluorobiphenyl (S)	%				71	73	39-120			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

LABORATORY CONTROL SAMPLE & LCSD: 2218375 2218376

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Terphenyl-d14 (S)	%				86	91	10-159			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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.

BATCH QUALIFIERS

Batch: 384613

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SOUTH MILWAUKEE
Pace Project No.: 40226391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40226391001	**MW-3**	EPA 3510	384564	EPA 8270E by SIM	384613
40226391002	**MW-4**	EPA 3510	384564	EPA 8270E by SIM	384613

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40226391

(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:	Illinois
Sampled By (Print):	Marcus Grzeschner
Sampled By (Sign):	Marcus Grz
PO #:	Regulatory Program:

*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:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	Analyses Requested: RNAs
001	MW-3	5/3/21	10:50	GW				X
002	MW-4	5/3/21	10:30	GW				X
003	MW-5	5/3/21	10:05	GW			X	

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	5/5 121		5/5/21 1321
	5/5/21 1700	CS Logistics	5/5/21
CS Logistics	5/6/21 0850		5/6/21 0850

PACE Project No.: 40226391

Receipt Temp = .5 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 05/14/06

C019a(27Jun2006)

ORIGINAL

Client Name: DAI ENV.

Sample Preservation Receipt Form

Project # 40226391

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																																	2.5 / 5 / 10
002						2																											2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: DAI ENV.

Project #:

WO# : 40226391

40226391

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 - 90 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 5

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

Person examining contents:
Date: 5/6/21 /Initials: LP

Labeled By Initials: SRK

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:	☒Yes ☐No ☐N/A	1. 5/6/21 LP
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. Mail, Invoice, PDF, pres. 5/6/21 LP 5/6/21 SRK
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☒Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8. Vials MeOH preserved
Correct Containers Used: 5/6/21 SRK ☒Yes ☒No		9. ~~VOAs fitted with water~~, VOC cancelled per PM 5/6/21 SRK 5/6/21 SRK
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒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: VOC samples methanol preserved. cancel per CC - LKW 5/6/21

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 18, 2021

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

RE: Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2021. 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,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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CERTIFICATIONS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40226665001	**MW-5**	Water	05/09/21 09:00	05/11/21 08:45

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SAMPLE ANALYTE COUNT

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40226665001	**MW-5**	EPA 8260	SMT	64

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40226665001	**MW-5**					
EPA 8260	Tetrachloroethene	0.012	mg/L	0.0010	05/17/21 12:30	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Sample: MW-5 **Lab ID: 40226665001** Collected: 05/09/21 09:00 Received: 05/11/21 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		05/17/21 12:30	71-43-2	
Bromobenzene	**<0.00036**	mg/L	0.0010	0.00036	1		05/17/21 12:30	108-86-1	
Bromochloromethane	**<0.00036**	mg/L	0.0050	0.00036	1		05/17/21 12:30	74-97-5	
Bromodichloromethane	**<0.00042**	mg/L	0.0010	0.00042	1		05/17/21 12:30	75-27-4	
Bromoform	**<0.0038**	mg/L	0.0050	0.0038	1		05/17/21 12:30	75-25-2	
Bromomethane	**<0.0012**	mg/L	0.0050	0.0012	1		05/17/21 12:30	74-83-9	
n-Butylbenzene	**<0.00086**	mg/L	0.0010	0.00086	1		05/17/21 12:30	104-51-8	
sec-Butylbenzene	**<0.00042**	mg/L	0.0010	0.00042	1		05/17/21 12:30	135-98-8	
tert-Butylbenzene	**<0.00059**	mg/L	0.0010	0.00059	1		05/17/21 12:30	98-06-6	
Carbon tetrachloride	**<0.00037**	mg/L	0.0010	0.00037	1		05/17/21 12:30	56-23-5	
Chlorobenzene	**<0.00086**	mg/L	0.0010	0.00086	1		05/17/21 12:30	108-90-7	
Chloroethane	**<0.0014**	mg/L	0.0050	0.0014	1		05/17/21 12:30	75-00-3	
Chloroform	**<0.0012**	mg/L	0.0050	0.0012	1		05/17/21 12:30	67-66-3	
Chloromethane	**<0.0016**	mg/L	0.0050	0.0016	1		05/17/21 12:30	74-87-3	
2-Chlorotoluene	**<0.00089**	mg/L	0.0050	0.00089	1		05/17/21 12:30	95-49-8	
4-Chlorotoluene	**<0.00089**	mg/L	0.0050	0.00089	1		05/17/21 12:30	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.0024**	mg/L	0.0050	0.0024	1		05/17/21 12:30	96-12-8	
Dibromochloromethane	**<0.0026**	mg/L	0.0050	0.0026	1		05/17/21 12:30	124-48-1	
1,2-Dibromoethane (EDB)	**<0.00031**	mg/L	0.0010	0.00031	1		05/17/21 12:30	106-93-4	
Dibromomethane	**<0.00099**	mg/L	0.0050	0.00099	1		05/17/21 12:30	74-95-3	
1,2-Dichlorobenzene	**<0.00033**	mg/L	0.0010	0.00033	1		05/17/21 12:30	95-50-1	
1,3-Dichlorobenzene	**<0.00035**	mg/L	0.0010	0.00035	1		05/17/21 12:30	541-73-1	
1,4-Dichlorobenzene	**<0.00089**	mg/L	0.0010	0.00089	1		05/17/21 12:30	106-46-7	
Dichlorodifluoromethane	**<0.00046**	mg/L	0.0050	0.00046	1		05/17/21 12:30	75-71-8	
1,1-Dichloroethane	**<0.00030**	mg/L	0.0010	0.00030	1		05/17/21 12:30	75-34-3	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		05/17/21 12:30	107-06-2	
1,1-Dichloroethene	**<0.00058**	mg/L	0.0010	0.00058	1		05/17/21 12:30	75-35-4	
cis-1,2-Dichloroethene	**<0.00047**	mg/L	0.0010	0.00047	1		05/17/21 12:30	156-59-2	
trans-1,2-Dichloroethene	**<0.00053**	mg/L	0.0010	0.00053	1		05/17/21 12:30	156-60-5	
1,2-Dichloropropane	**<0.00045**	mg/L	0.0010	0.00045	1		05/17/21 12:30	78-87-5	
1,3-Dichloropropane	**<0.00030**	mg/L	0.0010	0.00030	1		05/17/21 12:30	142-28-9	
2,2-Dichloropropane	**<0.0042**	mg/L	0.0050	0.0042	1		05/17/21 12:30	594-20-7	
1,1-Dichloropropene	**<0.00041**	mg/L	0.0010	0.00041	1		05/17/21 12:30	563-58-6	
cis-1,3-Dichloropropene	**<0.00036**	mg/L	0.0010	0.00036	1		05/17/21 12:30	10061-01-5	
trans-1,3-Dichloropropene	**<0.0035**	mg/L	0.0050	0.0035	1		05/17/21 12:30	10061-02-6	
Diisopropyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		05/17/21 12:30	108-20-3	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		05/17/21 12:30	100-41-4	
Hexachloro-1,3-butadiene	**<0.0027**	mg/L	0.0050	0.0027	1		05/17/21 12:30	87-68-3	
Isopropylbenzene (Cumene)	**<0.0010**	mg/L	0.0050	0.0010	1		05/17/21 12:30	98-82-8	
p-Isopropyltoluene	**<0.0010**	mg/L	0.0050	0.0010	1		05/17/21 12:30	99-87-6	
Methylene Chloride	**<0.00032**	mg/L	0.0050	0.00032	1		05/17/21 12:30	75-09-2	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		05/17/21 12:30	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		05/17/21 12:30	91-20-3	
n-Propylbenzene	**<0.00035**	mg/L	0.0010	0.00035	1		05/17/21 12:30	103-65-1	
Styrene	**<0.00036**	mg/L	0.0010	0.00036	1		05/17/21 12:30	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Sample: MW-5 **Lab ID: 40226665001** Collected: 05/09/21 09:00 Received: 05/11/21 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.00036**	mg/L	0.0010	0.00036	1		05/17/21 12:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.00038**	mg/L	0.0010	0.00038	1		05/17/21 12:30	79-34-5	
Tetrachloroethene	**0.012**	mg/L	0.0010	0.00041	1		05/17/21 12:30	127-18-4	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		05/17/21 12:30	108-88-3	
1,2,3-Trichlorobenzene	**<0.0010**	mg/L	0.0050	0.0010	1		05/17/21 12:30	87-61-6	
1,2,4-Trichlorobenzene	**<0.00095**	mg/L	0.0050	0.00095	1		05/17/21 12:30	120-82-1	
1,1,1-Trichloroethane	**<0.00030**	mg/L	0.0010	0.00030	1		05/17/21 12:30	71-55-6	
1,1,2-Trichloroethane	**<0.00034**	mg/L	0.0050	0.00034	1		05/17/21 12:30	79-00-5	
Trichloroethene	**<0.00032**	mg/L	0.0010	0.00032	1		05/17/21 12:30	79-01-6	
Trichlorofluoromethane	**<0.00042**	mg/L	0.0010	0.00042	1		05/17/21 12:30	75-69-4	
1,2,3-Trichloropropane	**<0.00056**	mg/L	0.0050	0.00056	1		05/17/21 12:30	96-18-4	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		05/17/21 12:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.00036**	mg/L	0.0010	0.00036	1		05/17/21 12:30	108-67-8	
Vinyl chloride	**<0.00017**	mg/L	0.0010	0.00017	1		05/17/21 12:30	75-01-4	
m&p-Xylene	**<0.00070**	mg/L	0.0020	0.00070	1		05/17/21 12:30	179601-23-1	
o-Xylene	**<0.00035**	mg/L	0.0010	0.00035	1		05/17/21 12:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/17/21 12:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/17/21 12:30	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		05/17/21 12:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

QC Batch: 385073
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40226665001

METHOD BLANK: 2221692 Matrix: Water
Associated Lab Samples: 40226665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	<0.00036	0.0010	05/14/21 19:03	
1,1,1-Trichloroethane	mg/L	<0.00030	0.0010	05/14/21 19:03	
1,1,2,2-Tetrachloroethane	mg/L	<0.00038	0.0010	05/14/21 19:03	
1,1,2-Trichloroethane	mg/L	<0.00034	0.0050	05/14/21 19:03	
1,1-Dichloroethane	mg/L	<0.00030	0.0010	05/14/21 19:03	
1,1-Dichloroethene	mg/L	<0.00058	0.0010	05/14/21 19:03	
1,1-Dichloropropene	mg/L	<0.00041	0.0010	05/14/21 19:03	
1,2,3-Trichlorobenzene	mg/L	<0.0010	0.0050	05/14/21 19:03	
1,2,3-Trichloropropane	mg/L	<0.00056	0.0050	05/14/21 19:03	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.0050	05/14/21 19:03	
1,2,4-Trimethylbenzene	mg/L	<0.00045	0.0010	05/14/21 19:03	
1,2-Dibromo-3-chloropropane	mg/L	<0.0024	0.0050	05/14/21 19:03	
1,2-Dibromoethane (EDB)	mg/L	<0.00031	0.0010	05/14/21 19:03	
1,2-Dichlorobenzene	mg/L	<0.00033	0.0010	05/14/21 19:03	
1,2-Dichloroethane	mg/L	<0.00029	0.0010	05/14/21 19:03	
1,2-Dichloropropane	mg/L	<0.00045	0.0010	05/14/21 19:03	
1,3,5-Trimethylbenzene	mg/L	<0.00036	0.0010	05/14/21 19:03	
1,3-Dichlorobenzene	mg/L	<0.00035	0.0010	05/14/21 19:03	
1,3-Dichloropropane	mg/L	<0.00030	0.0010	05/14/21 19:03	
1,4-Dichlorobenzene	mg/L	<0.00089	0.0010	05/14/21 19:03	
2,2-Dichloropropane	mg/L	<0.0042	0.0050	05/14/21 19:03	
2-Chlorotoluene	mg/L	<0.00089	0.0050	05/14/21 19:03	
4-Chlorotoluene	mg/L	<0.00089	0.0050	05/14/21 19:03	
Benzene	mg/L	<0.00030	0.0010	05/14/21 19:03	
Bromobenzene	mg/L	<0.00036	0.0010	05/14/21 19:03	
Bromochloromethane	mg/L	<0.00036	0.0050	05/14/21 19:03	
Bromodichloromethane	mg/L	<0.00042	0.0010	05/14/21 19:03	
Bromoform	mg/L	<0.0038	0.0050	05/14/21 19:03	
Bromomethane	mg/L	<0.0012	0.0050	05/14/21 19:03	
Carbon tetrachloride	mg/L	<0.00037	0.0010	05/14/21 19:03	
Chlorobenzene	mg/L	<0.00086	0.0010	05/14/21 19:03	
Chloroethane	mg/L	<0.0014	0.0050	05/14/21 19:03	
Chloroform	mg/L	<0.0012	0.0050	05/14/21 19:03	
Chloromethane	mg/L	<0.0016	0.0050	05/14/21 19:03	
cis-1,2-Dichloroethene	mg/L	<0.00047	0.0010	05/14/21 19:03	
cis-1,3-Dichloropropene	mg/L	<0.00036	0.0010	05/14/21 19:03	
Dibromochloromethane	mg/L	<0.0026	0.0050	05/14/21 19:03	
Dibromomethane	mg/L	<0.00099	0.0050	05/14/21 19:03	
Dichlorodifluoromethane	mg/L	<0.00046	0.0050	05/14/21 19:03	
Diisopropyl ether	mg/L	<0.0011	0.0050	05/14/21 19:03	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

METHOD BLANK: 2221692 Matrix: Water
Associated Lab Samples: 40226665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/L	<0.00033	0.0010	05/14/21 19:03	
Hexachloro-1,3-butadiene	mg/L	<0.0027	0.0050	05/14/21 19:03	
Isopropylbenzene (Cumene)	mg/L	<0.0010	0.0050	05/14/21 19:03	
m&p-Xylene	mg/L	<0.00070	0.0020	05/14/21 19:03	
Methyl-tert-butyl ether	mg/L	<0.0011	0.0050	05/14/21 19:03	
Methylene Chloride	mg/L	<0.00032	0.0050	05/14/21 19:03	
n-Butylbenzene	mg/L	<0.00086	0.0010	05/14/21 19:03	
n-Propylbenzene	mg/L	<0.00035	0.0010	05/14/21 19:03	
Naphthalene	mg/L	<0.0011	0.0050	05/14/21 19:03	
o-Xylene	mg/L	<0.00035	0.0010	05/14/21 19:03	
p-Isopropyltoluene	mg/L	<0.0010	0.0050	05/14/21 19:03	
sec-Butylbenzene	mg/L	<0.00042	0.0010	05/14/21 19:03	
Styrene	mg/L	<0.00036	0.0010	05/14/21 19:03	
tert-Butylbenzene	mg/L	<0.00059	0.0010	05/14/21 19:03	
Tetrachloroethene	mg/L	<0.00041	0.0010	05/14/21 19:03	
Toluene	mg/L	<0.00029	0.0010	05/14/21 19:03	
trans-1,2-Dichloroethene	mg/L	<0.00053	0.0010	05/14/21 19:03	
trans-1,3-Dichloropropene	mg/L	<0.0035	0.0050	05/14/21 19:03	
Trichloroethene	mg/L	<0.00032	0.0010	05/14/21 19:03	
Trichlorofluoromethane	mg/L	<0.00042	0.0010	05/14/21 19:03	
Vinyl chloride	mg/L	<0.00017	0.0010	05/14/21 19:03	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	05/14/21 19:03	
4-Bromofluorobenzene (S)	%	100	70-130	05/14/21 19:03	
Toluene-d8 (S)	%	97	70-130	05/14/21 19:03	

LABORATORY CONTROL SAMPLE: 2221693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.05	0.051	102	70-130	
1,1,2,2-Tetrachloroethane	mg/L	0.05	0.044	88	66-130	
1,1,2-Trichloroethane	mg/L	0.05	0.047	94	70-130	
1,1-Dichloroethane	mg/L	0.05	0.050	100	68-132	
1,1-Dichloroethene	mg/L	0.05	0.052	105	85-126	
1,2,4-Trichlorobenzene	mg/L	0.05	0.041	83	70-130	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.039	78	51-126	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.047	93	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.047	94	70-130	
1,2-Dichloroethane	mg/L	0.05	0.049	98	70-130	
1,2-Dichloropropane	mg/L	0.05	0.048	97	78-125	
1,3-Dichlorobenzene	mg/L	0.05	0.047	94	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.047	94	70-130	
Benzene	mg/L	0.05	0.050	100	70-132	
Bromodichloromethane	mg/L	0.05	0.049	97	70-130	
Bromoform	mg/L	0.05	0.050	99	65-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

LABORATORY CONTROL SAMPLE: 2221693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/L	0.05	0.048	95	44-128	
Carbon tetrachloride	mg/L	0.05	0.054	109	70-130	
Chlorobenzene	mg/L	0.05	0.049	97	70-130	
Chloroethane	mg/L	0.05	0.055	109	73-137	
Chloroform	mg/L	0.05	0.049	98	80-122	
Chloromethane	mg/L	0.05	0.055	110	27-148	
cis-1,2-Dichloroethene	mg/L	0.05	0.050	100	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.046	93	70-130	
Dibromochloromethane	mg/L	0.05	0.048	96	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.066	132	22-151	
Ethylbenzene	mg/L	0.05	0.050	100	80-123	
Isopropylbenzene (Cumene)	mg/L	0.05	0.052	104	70-130	
m&p-Xylene	mg/L	0.1	0.10	101	70-130	
Methyl-tert-butyl ether	mg/L	0.05	0.046	92	66-130	
Methylene Chloride	mg/L	0.05	0.048	97	70-130	
o-Xylene	mg/L	0.05	0.050	101	70-130	
Styrene	mg/L	0.05	0.052	103	70-130	
Tetrachloroethene	mg/L	0.05	0.050	100	70-130	
Toluene	mg/L	0.05	0.049	97	80-121	
trans-1,2-Dichloroethene	mg/L	0.05	0.051	102	70-130	
trans-1,3-Dichloropropene	mg/L	0.05	0.041	83	58-125	
Trichloroethene	mg/L	0.05	0.051	101	70-130	
Trichlorofluoromethane	mg/L	0.05	0.062	124	84-148	
Vinyl chloride	mg/L	0.05	0.058	116	63-142	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223759 2223760

Parameter	Units	40226769005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/L	<1.0 ug/L	0.05	0.05	0.051	0.053	102	105	70-130	4	20	
1,1,2,2-Tetrachloroethane	mg/L	<1.0 ug/L	0.05	0.05	0.045	0.049	90	98	66-130	8	20	
1,1,2-Trichloroethane	mg/L	<5.0 ug/L	0.05	0.05	0.045	0.050	90	100	70-130	10	20	
1,1-Dichloroethane	mg/L	<1.0 ug/L	0.05	0.05	0.049	0.051	98	101	68-132	4	20	
1,1-Dichloroethene	mg/L	<1.0 ug/L	0.05	0.05	0.049	0.052	99	104	76-132	5	20	
1,2,4-Trichlorobenzene	mg/L	<5.0 ug/L	0.05	0.05	0.045	0.050	91	100	70-130	9	20	
1,2-Dibromo-3-chloropropane	mg/L	<5.0 ug/L	0.05	0.05	0.043	0.047	85	94	51-126	9	20	
1,2-Dibromoethane (EDB)	mg/L	<1.0 ug/L	0.05	0.05	0.046	0.049	92	99	70-130	7	20	
1,2-Dichlorobenzene	mg/L	<1.0 ug/L	0.05	0.05	0.047	0.051	95	103	70-130	8	20	
1,2-Dichloroethane	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.048	96	96	70-130	0	20	
1,2-Dichloropropane	mg/L	<1.0 ug/L	0.05	0.05	0.047	0.050	94	99	77-125	6	20	
1,3-Dichlorobenzene	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.051	96	102	70-130	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223759 2223760

Parameter	Units	40226769005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.052	97	104	70-130	7	20	
Benzene	mg/L	<1.0 ug/L	0.05	0.05	0.049	0.051	98	103	70-132	4	20	
Bromodichloromethane	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.051	96	102	70-130	6	20	
Bromoform	mg/L	<5.0 ug/L	0.05	0.05	0.049	0.053	98	106	65-130	8	20	
Bromomethane	mg/L	<5.0 ug/L	0.05	0.05	0.044	0.048	87	97	44-128	11	21	
Carbon tetrachloride	mg/L	<1.0 ug/L	0.05	0.05	0.054	0.056	108	112	70-132	4	20	
Chlorobenzene	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.052	96	104	70-130	8	20	
Chloroethane	mg/L	<5.0 ug/L	0.05	0.05	0.050	0.052	101	105	70-137	4	20	
Chloroform	mg/L	<5.0 ug/L	0.05	0.05	0.049	0.051	97	103	80-122	6	20	
Chloromethane	mg/L	<5.0 ug/L	0.05	0.05	0.045	0.047	90	94	17-149	5	20	
cis-1,2-Dichloroethene	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.051	97	103	70-130	6	20	
cis-1,3-Dichloropropene	mg/L	<1.0 ug/L	0.05	0.05	0.047	0.049	94	99	70-130	5	20	
Dibromochloromethane	mg/L	<5.0 ug/L	0.05	0.05	0.047	0.051	94	102	70-130	9	20	
Dichlorodifluoromethane	mg/L	<5.0 ug/L	0.05	0.05	0.043	0.046	85	91	22-158	7	20	
Ethylbenzene	mg/L	<1.0 ug/L	0.05	0.05	0.049	0.052	98	104	80-123	6	20	
Isopropylbenzene (Cumene)	mg/L	<5.0 ug/L	0.05	0.05	0.051	0.054	103	108	70-130	5	20	
m&p-Xylene	mg/L	<2.0 ug/L	0.1	0.1	0.10	0.10	100	104	70-130	5	20	
Methyl-tert-butyl ether	mg/L	<5.0 ug/L	0.05	0.05	0.045	0.049	90	98	66-130	9	20	
Methylene Chloride	mg/L	<5.0 ug/L	0.05	0.05	0.047	0.049	93	98	70-130	5	20	
o-Xylene	mg/L	<1.0 ug/L	0.05	0.05	0.049	0.052	99	104	70-130	5	20	
Styrene	mg/L	<1.0 ug/L	0.05	0.05	0.051	0.054	102	108	70-130	6	20	
Tetrachloroethene	mg/L	<1.0 ug/L	0.05	0.05	0.050	0.052	99	103	70-130	4	20	
Toluene	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.050	95	101	80-121	6	20	
trans-1,2-Dichloroethene	mg/L	<1.0 ug/L	0.05	0.05	0.050	0.052	100	103	70-134	4	20	
trans-1,3-Dichloropropene	mg/L	<5.0 ug/L	0.05	0.05	0.041	0.045	82	90	58-130	9	20	
Trichloroethene	mg/L	<1.0 ug/L	0.05	0.05	0.050	0.051	100	103	70-130	2	20	
Trichlorofluoromethane	mg/L	<1.0 ug/L	0.05	0.05	0.058	0.061	115	122	82-151	5	20	
Vinyl chloride	mg/L	<1.0 ug/L	0.05	0.05	0.051	0.052	102	104	61-143	3	20	
1,2-Dichlorobenzene-d4 (S)	%						100	98	70-130			
4-Bromofluorobenzene (S)	%						102	103	70-130			
Toluene-d8 (S)	%						98	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40226665

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40226665001	**MW-5**	EPA 8260	385073		

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

40226665

Pace Analytical®
www.pacelabs.com

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

(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 Ace
Project State:	Wisconsin
Sampled By (Print):	Marcus Gyrsching
Sampled By (Sign):	Marcus Gyrsching
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-5	5/9/21	9:00	GW			2 VOCs			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/10/21 12:[illegible]	[signature]	5/10/21 1230
[signature]	5/10/21 1700	CS Logistics	5/10/21
CS Logistics	5/11/21 0845	[signature] pace	5/11/21 0845

PACE Project No. 40226665

Receipt Temp = .5 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

(Intact) / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

Client Name: DAT ENV.

Project # 40226665

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																																	2.5 / 5 / 10
002																	3																2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
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014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

SHIP

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: DAT ENV. Project #:

WO# : 40226665

40226665

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 - 90 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: .5

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

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

Person examining contents:
Date: 5/11/24 /Initials: JF

Labeled By Initials: JF

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. Mail, Invoice 5/11/24 JF
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒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:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2