DAI ENVIRONMENTAL

Environmental Engineers, Geologists and Scientists

Tel 847.573.8900
Fax 847.573.8953

Polo Park Business Center
27834 N. Irma Lee Circle
Lake Forest, Illinois 60045-5130

October 29, 2018

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 2018 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. As discussed in the December 28, 2017, *Site Investigation Work Plan*, quarterly groundwater sampling is being performed to obtain the additional data needed to determine the most appropriate method for addressing Polynuclear Aromatic Hydrocarbon groundwater contamination and to monitor the Tetrachloroethene groundwater concentration in monitoring well MW-5.

A brief discussion of the quarterly sampling protocol and results of the October 2018 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 847-573-8900 extension 580. Thank you for your time.

Sincerely,
DAI Environmental, Inc.

Christopher Cailles

Christopher Cailles, P.E.
Project Engineer

Enclosure

cc: Steven Dukatt – Carol Investment Corporation (w/enclosure)

ENVIRONMENTAL

Environmental Engineers, Geologists and Scientists

Tel 847.573.8900
Fax 847.573.8953

Polo Park Business Center
27834 N. Irma Lee Circle
Lake Forest, Illinois 60045-5130

QUARTERLY GROUNDWATER SAMPLING REPORT
(OCTOBER 2018 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

October 29, 2018

DAI Project Number: 6255

Prepared For:
Carol Investment Corporation
1410 South Clinton Street
Chicago, IL 60607

Prepared By:
DAI Environmental, Inc.
Polo Park Business Center
27834 Irma Lee Circle
Lake Forest, Illinois 60045

TABLE OF CONTENTS

LIST OF TABLES (APPENDIX A)

LIST OF FIGURES (APPENDIX B)

LIST OF APPENDICES

1.0 INTRODUCTION

As discussed in the December 28, 2017, *Site Investigation Work Plan* (SIWP), quarterly groundwater sampling is being conducted by DAI Environmental, Inc., (DAI) at the Sunrise Shopping Center addressed as 2410-2424 10th Avenue and 1009 Marquette Avenue in South Milwaukee, WI (Site). Figure B.1.b.1 in Attachment B provides an aerial view of the Site and surrounding property. The groundwater sampling is being performed to obtain the additional data needed to determine the most appropriate method for addressing Polynuclear Aromatic Hydrocarbon (PAH) groundwater contamination and to monitor for changes in Tetrachloroethene (Perc) groundwater concentration. A brief discussion of the quarterly sampling protocol and results are provided below.

2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM

As described in the December 2017 SIWP, a complete round of groundwater sampling was performed on January 5, 2018. Groundwater samples were collected from each of the six (6) permanent monitoring wells (MW-1 to MW-5 and MW-201) installed at the Sunrise Shopping Center Site. The groundwater samples were submitted to an independent commercial laboratory for analysis of PAHs. Figure B.3.d provides the locations of the monitoring wells. A sample was also collected from monitoring well MW-5 for analysis of Volatile Organic Compounds (VOCs), primarily for the purpose of evaluating the Perc groundwater concentration. Results of the January 2018 groundwater sampling were provided to Wisconsin Department of Natural Resources (WDNR) in the *Site Investigation Report Amendment Addendum* dated February 28, 2018.

2.1 Quarterly Sampling Protocol

Based upon the January 2018 sampling results, quarterly groundwater sampling throughout 2018 shall continue 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.

No additional PAH sampling is to be performed from monitoring wells MW-1, MW-2, MW-5, or MW-201. January 2018 sampling results verified that no groundwater concentrations in any of the four (4) monitoring wells exceeds the Preventative Action Limits (PALs) listed in Table 1 of NR 140.

2.2 Groundwater Sampling Procedures and Chemical Analysis

Groundwater samples were collected for the fourth quarter 2018 (i.e., July-September 2018) on October 11, 2018. Consistent with sampling protocol followed during Site Investigation activities, the three (3) monitoring wells were purged prior to sample collected, 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

In order 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 2018 groundwater sampling event. The static water level elevations were collected from all monitoring wells on October 11, 2018. Table A.6 in Attachment A provides a historical summary of groundwater elevation information. The potentiometric surface map generated from the October 2018 data is included as Figure B.3.c.5 (see Attachment B).

Review of Table A.6 shows that the groundwater elevations observed in October 2018 were a foot or more higher in MW-1 through MW-4 than observed in July 2018, while monitoring wells MW-5 and MW-201 were higher by 0.34-ft and 0.47-ft, respectively. The highest static elevation differences between July and October 2018 are noted in monitoring wells MW-1 and MW-3, which are located in areas of the Site with known subsurface disturbance. The groundwater flow direction along the southern half of the Site remains northwesterly and a northerly groundwater flow direction is indicated along the northern half of the Site (see Figure B.3.c.6) from the October 2018 data.

3.2 Groundwater Analytical Results

During the fourth 2018, groundwater samples were collected for VOC analyses from MW-5, and for PAHs from MW-3 and MW-4. 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 PALs and Enforcement Standards listed in Table 1 of NR 140. A copy of the laboratory analytical report is provided in this report as Attachment C.1.E.

Volatile Organic Compounds

Table A.1.A summarizes the groundwater results for VOC analyses at MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location). As observed in the table, Perc has been consistently noted in monitoring well MW-5, with concentrations exceeding the Enforcement Standard of 0.005-mg/L since February 2016. As a result of these Enforcement Standard exceedances, the area around MW-5 received chemical injection of RemOx® during the pilot-scale injection testing performed on July 19, 2018. The July 30th Perc concentration of 0.0086-mg/L was a decrease from April 2018 (0.0203-mg/L). However, the October 11, 2018, Perc concentration indicates a rebound to a concentration to 0.021-mg/L, which is consistent with the second quarter (April) 2018 results. Additional chemical injection has been proposed within the area of MW-5 to further reduce concentrations to below the Enforcement Standard. Figure B.3.b.1 provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination.

Polynuclear Aromatic Hydrocarbons

Table A.1.B summarizes the results of the PAH analyses for MW-3 and MW-4. 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 is identified) indicates the presence of PAH contamination in groundwater during each sampling event. However, the fluctuations in PAH concentrations do not indicate a discernable trend. The most recent sampling results collected in October 2018 show Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene groundwater concentrations in MW-3 at concentrations above the PAL, but below the Enforcement Standards, which are similar to January 2018 results. The October 2018 contaminant concentrations have decreased for a second consecutive quarter.

The October 2018 sampling results from MW-4 (installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST) indicate several PAH constituents at concentrations above the Limit of Detection (LOD), with Benzo(b)fluoranthene and Chrysene observed at concentrations marginally above the PALs. Benzo(a)pyrene was reported at a concentration below the LOD, but where the LOD was above the PALs. This concentration is not considered an exceedance per NR140.14(3)(a). While no exceedances were reported in the

July 2018 sampling event, the reported concentrations in July 2018 and October 2018 are comparable and do indicate an increasing trend, i.e., the concentrations appear generally stable since the completion of the pilot test chemical injection in July 2018.

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.

4.0 SUMMARY AND SCHEDULE

- Perc has been observed in monitoring well MW-5 at concentrations exceeding the Enforcement Standards and increasing in magnitude each quarter since February 2016. On July 19, 2018 pilot-scale chemical injections were conducted within the area of MW-5. While the July 2018 Perc concentration measured in MW-5 indicated a reduction in concentration from the second quarter sample results, the October 2018 concentration of 0.021-mg/L is comparable to the April 2018 concentration of 0.0203-mg/L. Therefore, while the July 2018 results do indicate that the chemical injection activities were helpful in reducing the Perc concentration in the area of MW-5, the Perc concentrations have rebounded so further injection within this area is proposed.
- The most recent round of groundwater samples indicate that the Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene groundwater concentrations in MW-3 exceed the PALs, but not the Enforcement Standards. The October 2018 observed concentrations indicate a decline for the second consecutive quarter. The observed concentrations in MW-3 continue to fluctuate and are not yet indicative of any trend. Without an indication of increasing concentration and/or contaminant spread, no Remedial Actions are planned for MW-3.
- The groundwater sampling results from MW-4 indicate Benzo(b)fluoranthene and Chrysene at concentrations exceeding the PALs, but not the Enforcement Standards. The observed concentrations are marginally above the PAL and generally comparable to the July 2018 sampling results. The pilot-scale chemical injection appears to have been effective in reducing PAH groundwater concentrations, and the PAH concentrations in MW-4 appear stable.
- The December 2017 SIWP proposed the completion of four (4) quarters of groundwater sampling during 2018. Quarterly groundwater sampling will continue until Site closure is requested.

APPENDIX A
TABLES

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

Volatile Organic Compound	Sample Location (Sample Date)								PAL[1]	ES[2]
	TW-2 (11/12/14)	MW-5 (01/27/15)	MW-5 (02/23/16)	MW-5 (05/30/17)	MW-5 (01/05/18)	MW-5 (04/07/18)	MW-5 (07/30/18)	MW-5 (10/11/18)		
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00025	<0.00025	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00024	<0.00024	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00036	<0.00036	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.00036*	<0.00036*	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.004*	<0.004*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.00097	<0.00097	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00071	<0.00071	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.00085	<0.00085	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.0003	<0.0003	NL	NL
Carbon tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00017	<0.00017	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00071	<0.00071	NL	NL
Chloroethane	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.0013	<0.0013	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0013*	<0.0013*	0.0006	0.006
Chloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0022	<0.0022	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00093	<0.00093	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00076	<0.00076	NL	NL
Dibromochloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0026	<0.0026	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0018*	<0.0018*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00016*	<0.00018*	<0.00018*	<0.00018*	<0.00018*	<0.00018*	<0.00083*	<0.00083*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.00094	<0.00094	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00071	<0.00071	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00063	<0.00063	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00094	<0.00094	0.015	0.075
Dichlorodifluoromethane	<0.0002	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.0005	<0.0005	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00027	<0.00027	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00028	<0.00028	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	<0.00024	<0.00024	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00027	<0.00027	0.007	0.07
trans-1,2-Dichoroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.0011	<0.0011	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00028	<0.00028	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00083	<0.00083	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.00048	<0.00048	<0.00048	<0.00048	<0.0023	<0.0023	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00054	<0.00054	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.008*	<0.008*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0019	<0.0019	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00022	<0.00022	0.14	0.7
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0012	<0.0012	NL	NL

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

Volatile Organic Compound	Sample Location (Sample Date)								PAL[1]	ES[2]
	TW-2 (11/12/14)	MW-5 (01/27/15)	MW-5 (02/23/16)	MW-5 (05/30/17)	MW-5 (01/05/18)	MW-5 (04/07/18)	MW-5 (07/30/18)	MW-5 (10/11/18)		
Isopropyl benzene	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00039	<0.00039	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0008	<0.0008	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00058*	<0.00058*	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.0012	<0.0012	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0012	<0.0012	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00081	<0.00081	NL	NL
Styrene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00047	<0.00047	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00027	<0.00027	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00028*	<0.00028*	0.00002	0.0002
Tetrachloroethene	**0.0026**	**0.0026**	**<u>0.0083</u>**	**<u>0.0124</u>**	**<u>0.0181</u>**	**<u>0.0203</u>**	**<u>0.0086</u>**	**<u>0.021</u>**	0.0005	0.005
Toluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00017	<0.00017	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.00063	<0.00063	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.00095	<0.00095	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.00057	0.000897	0.00088	0.00095 (J)	0.04	0.2
1,1,2-Trichloroethane	<0.00016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00055*	<0.00055*	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00026	0.00027 (J)	0.0005	0.005
Trichlorofluoromethane	<0.00017	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00021	<0.00021	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00059	<0.00059	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00084	<0.00084	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00087	<0.00087		
Vinyl chloride	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00017	<0.00017	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.00073	<0.00073	3.96	260

[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
<u>Underlined</u> – Concentration exceeds the PAL and the ES
* – Limit of detection reported greater than most stringent applicable standard; "non-detect" concentration not taken as exceedance per NR140.14(3)(a)
(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification
NL – Not Listed in NR 140
VOCs via USEPA Method SW8260
NOTE – MW-5 generally duplicated TW-2

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)	MW-3 (10/11/18)		
Acenaphthene	0.00076	0.0000043 (J)	0.000026 (J)	0.0000077 (J)	0.000029	0.000014 (J)	0.00001 (J)	NL	NL
Acenaphthylene	0.00013	0.0000036 (J)	0.000016 (J)	<0.0000045	0.000053	0.000023	<0.0000045	NL	NL
Anthracene	0.00056	<0.0000023	0.00013	0.000031 (J)	0.00015	0.000073	0.00002 (J)	0.6	3
Benzo(a)anthracene	0.00069	<0.0000031	0.00073	0.0000069 (J)	0.001	0.00043	0.000017 (J)	NL	NL
Benzo(a)pyrene	**0.0006**	0.000011 (J)	**0.001**	<0.0000096	**0.0019**	**0.00068**	**0.000024 (J)**	0.00002	0.0002
Benzo(b)fluoranthene	**0.00077**	0.00002 (J)	**0.002**	**0.000037**	**0.0039**	**0.0013**	**0.000074**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0004	0.000016 (J)	0.0011	0.00018 (J)	0.0025	0.00082	0.000037	NL	NL
Benzo(k)fluoranthene	0.00029	0.00001 (J)	0.00068	0.000014 (J)	0.0014	0.00041	0.000026 (J)	NL	NL
Chrysene	**0.00084**	**0.000028 (J)**	**0.0015**	**0.000047 (J)**	**0.003**	**0.00095**	**0.000079**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000091	<0.0000032	0.00022	<0.0000091	0.00034	0.00015	<0.000009	NL	NL
Fluoranthene	0.0024	0.000041 (J)	0.0031	0.00021	0.0052	0.0019	0.00026	0.08	0.4
Fluorene	0.0011	0.0000035 (J)	0.000052	0.000022 (J)	0.000048	0.00004	0.000031 (J)	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0003	0.0000081 (J)	0.00086	<0.000016	0.0021	0.00089	0.000027 (J)	NL	NL
1-Methylnaphthalene	0.002	0.0000091 (J)	0.00018	0.00016	0.000033	0.000033	0.000019 (J)	NL	NL
2-Methylnaphthalene	0.00017	0.0000084 (J)	0.00013	0.00016	0.000024	0.000031	0.000015 (J)	NL	NL
Naphthalene	0.00016	<0.0000056	0.00012	0.00046	0.000051	0.000053 (J)	0.000032 (J)	0.017	0.1
Phenanthrene	0.0021	0.000043 (J)	0.00071	0.000085	0.0013	0.00047	0.000093	NL	NL
Pyrene	0.0025	0.000059	0.002	0.00011	0.0037	0.0012	0.0002	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]
	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)		
Acenaphthene	0.00049	0.0000039 (J)	0.00056	0.0386	0.0246	NL	NL
Acenaphthylene	0.00012	0.000084	0.000073	0.0166	0.0083	NL	NL
Anthracene	0.00006	0.00006	0.00011	0.0018 (J)	0.0019	0.6	3
Benzo(a)anthracene	0.000013 (J)	<0.0000032	0.0000082 (J)	0.00044 (J)	<0.00014	NL	NL
Benzo(a)pyrene	0.0000053 (J)	0.000017 (J)	0.000006 (J)	**<0.00049**	**<0.0002**	0.00002	0.0002
Benzo(b)fluoranthene	0.0000093 (J)	**0.000043 (J)**	0.000014 (J)	**<0.00027**	**0.00022 (J)**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000071 (J)	0.000025 (J)	0.0000081 (J)	<0.00031	<0.00013	NL	NL
Benzo(k)fluoranthene	<0.000005	0.000021 (J)	<0.0000051	<0.00035	<0.00014	NL	NL
Chrysene	**0.000021 (J)**	**0.000042 (J)**	0.000017 (J)	**0.0018 (J)**	**0.001 (J)**	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000035	<0.0000033	<0.0000051	<0.00046	<0.00019	NL	NL
Fluoranthene	0.00004 (J)	0.000049	0.00003 (J)	0.0037	0.0046	0.08	0.4
Fluorene	0.00061	0.000031 (J)	0.00051	0.0759	0.0504	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0000044 (J)	0.000017 (J)	0.0000056 (J)	<0.00082	<0.00033	NL	NL
1-Methylnaphthalene	0.0087	0.000076	0.0041	0.357	0.183	NL	NL
2-Methylnaphthalene	0.0065	0.000066	0.000037 (J)	0.0747	0.0126	NL	NL
Naphthalene	0.0022	0.00027	0.00017	**0.0243**	**0.0151**	0.01	0.1
Phenanthrene	0.00062	0.000033 (J)	0.00029	0.165	0.102	NL	NL
Pyrene	0.00006	0.0001	0.000081	0.0165	0.0102	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 (04/07/18)	MW-4 (07/30/18)	MW-4 (10/11/18)		
Acenaphthene	0.0031	0.0021	0.004	NL	NL
Acenaphthylene	0.00073	0.00064	0.00091	NL	NL
Anthracene	0.00051	0.00024	0.001	0.6	3
Benzo(a)anthracene	0.000012 (J)	<0.000035	0.00004 (J)	NL	NL
Benzo(a)pyrene	<0.0000095	**<0.000048**	**<0.000029**	0.00002	0.0002
Benzo(b)fluoranthene	0.0000096 (J)	**<0.000026**	**0.000022**	0.00002	0.0002
Benzo(g,h,i)perylene	<0.0000061	<0.000031	<0.000018	NL	NL
Benzo(k)fluoranthene	<0.0000068	<0.000035	<0.000021	NL	NL
Chrysene	**0.000031 (J)**	**<0.00006**	**0.000084 (J)**	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000009	<0.000046	<0.000027	NL	NL
Fluoranthene	0.0001	0.000061 (J)	0.00019	0.08	0.4
Fluorene	0.0053	0.0035	0.0067	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.000016	<0.000081	<0.000048	NL	NL
1-Methylnaphthalene	0.0109	0.0395	0.0268	NL	NL
2-Methylnaphthalene	0.00026	0.00051	0.00021	NL	NL
Naphthalene	0.0022	0.0015	0.00081	0.01	0.1
Phenanthrene	0.0033	0.0031	0.0059	NL	NL
Pyrene	0.00032	0.00017 (J)	0.0001	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.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	10/11/18	1.66	14.49	97.47
		7/30/18	3.32		95.81
		4/08/18	2.24		96.89
		2/27/18	1.58		97.55
		5/30/17	2.17		96.96
		4/24/15	1.46		97.67
		3/30/15	1.98		97.15
		1/27/15	3.93		95.20
MW-2	100.75	10/11/18	6.45	14.41	94.30
		7/30/18	7.45		93.30
		4/08/18	8.36		92.39
		2/27/18	8.54		92.21
		5/30/17	7.95		92.80
		4/24/15	7.21		93.54
		3/30/15	8.01		92.74
		1/27/15	8.60		92.15
MW-3	100.05	10/11/18	2.35	14.46	97.70
		7/30/18	3.62		96.43
		4/08/18	2.53		97.52
		2/27/18	2.43		97.62
		5/30/17	2.45		97.60
		4/24/15	2.27		97.78
		3/30/15	2.73		97.32
		1/27/15	4.46		95.59
MW-4	100.57	10/11/18	5.43	14.57	95.14
		7/30/18	6.91		93.66
		4/08/18	7.26		93.31
		2/27/18	7.23		93.34
		5/30/17	6.38		94.19
		4/24/15	5.94		94.63
		3/30/15	7.04		93.53
		1/27/15	6.53		94.04
MW-5	100.24	10/11/18	5.85	14.60	94.39
		7/30/18	6.19		94.05
		4/08/18	6.27		93.97
		2/27/18	6.15		94.09
		5/30/17	5.96		94.28
		4/24/15	5.92		94.32
		3/30/15	6.26		93.98
		1/27/15	6.50		93.74
MW-201	100.10	10/11/18	6.22	14.57	93.88
		7/30/18	6.69		93.41
		4/08/18	6.79		93.34
		2/27/18	6.46		93.64
		5/30/17	6.26		93.84
		4/24/15	5.91		94.19
		3/30/15	6.28		93.82
		1/27/15	Not Installed		Not Installed

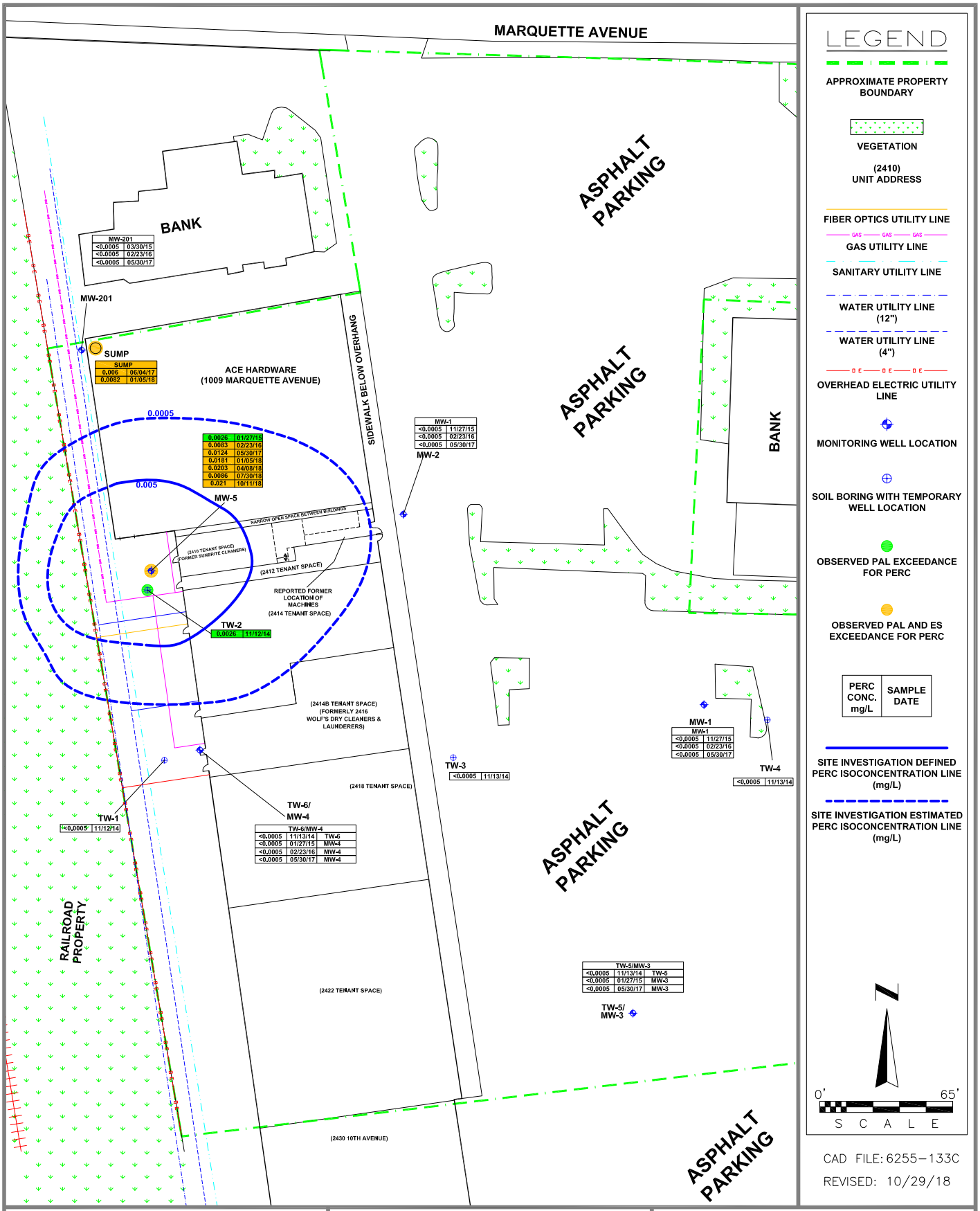
* – Relative Elevation based upon generic 100-ft on-site datum and survey data collected on January 27, 2015, and March 30, 2015.

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
(2015 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

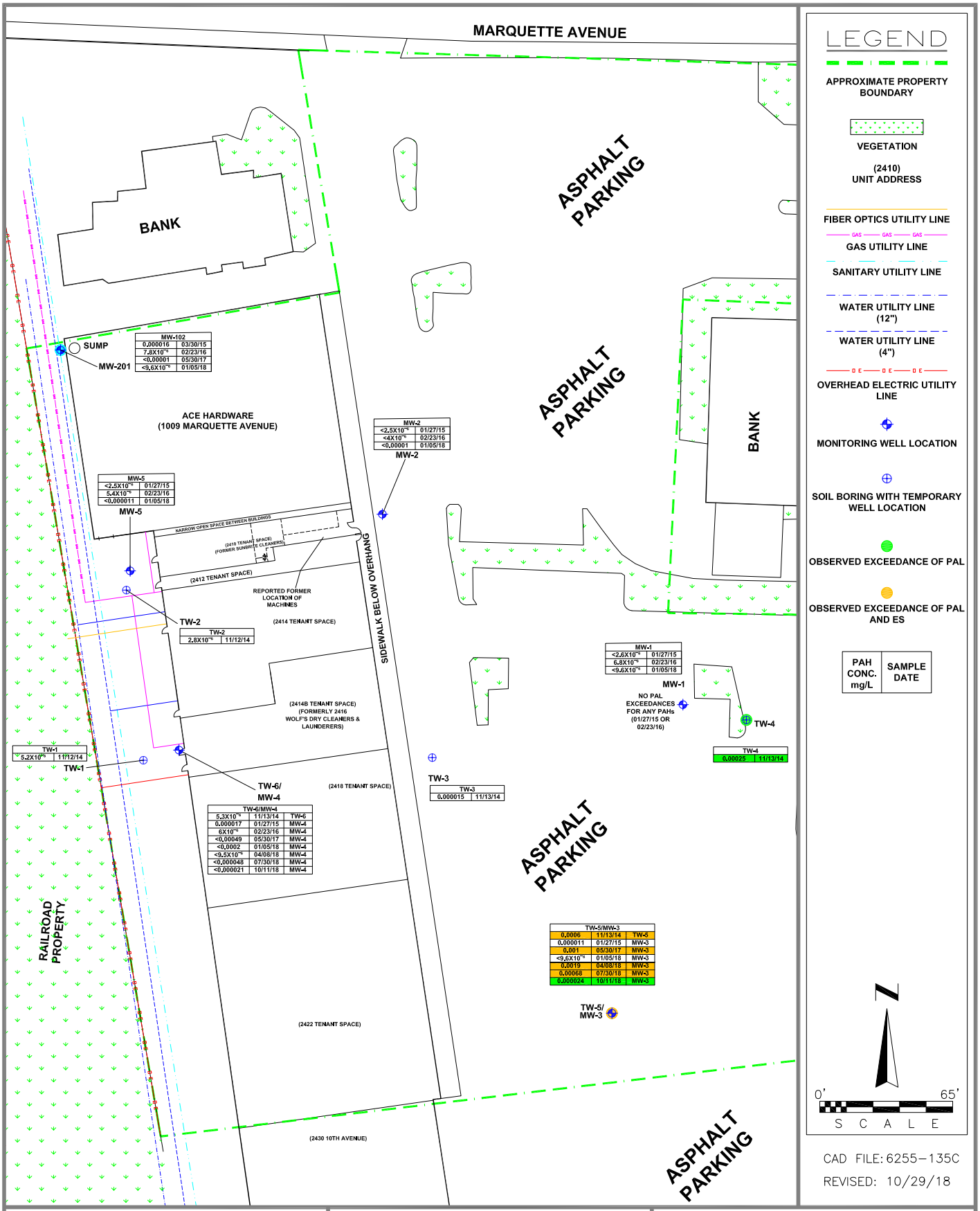
CAD FILE: 6255-133C

REVISED: 10/29/18

ENVIRONMENTAL

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

FIGURE B.3.b.1
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 EXCEEDANCE OF PAL

OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE

N

0' 65'

S C A L E

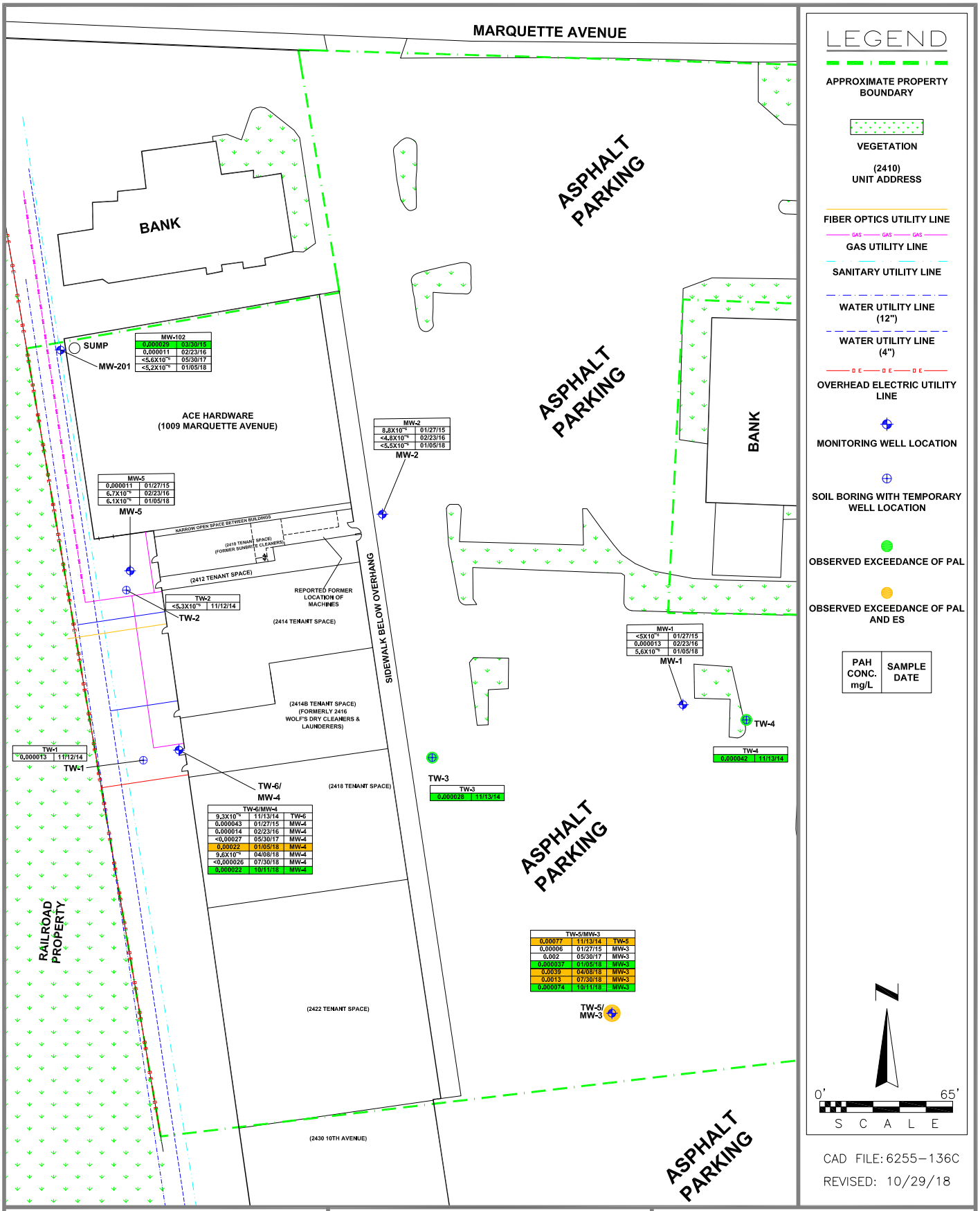
CAD FILE: 6255-135C

REVISED: 10/29/18

ENVIRONMENTAL DAI

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

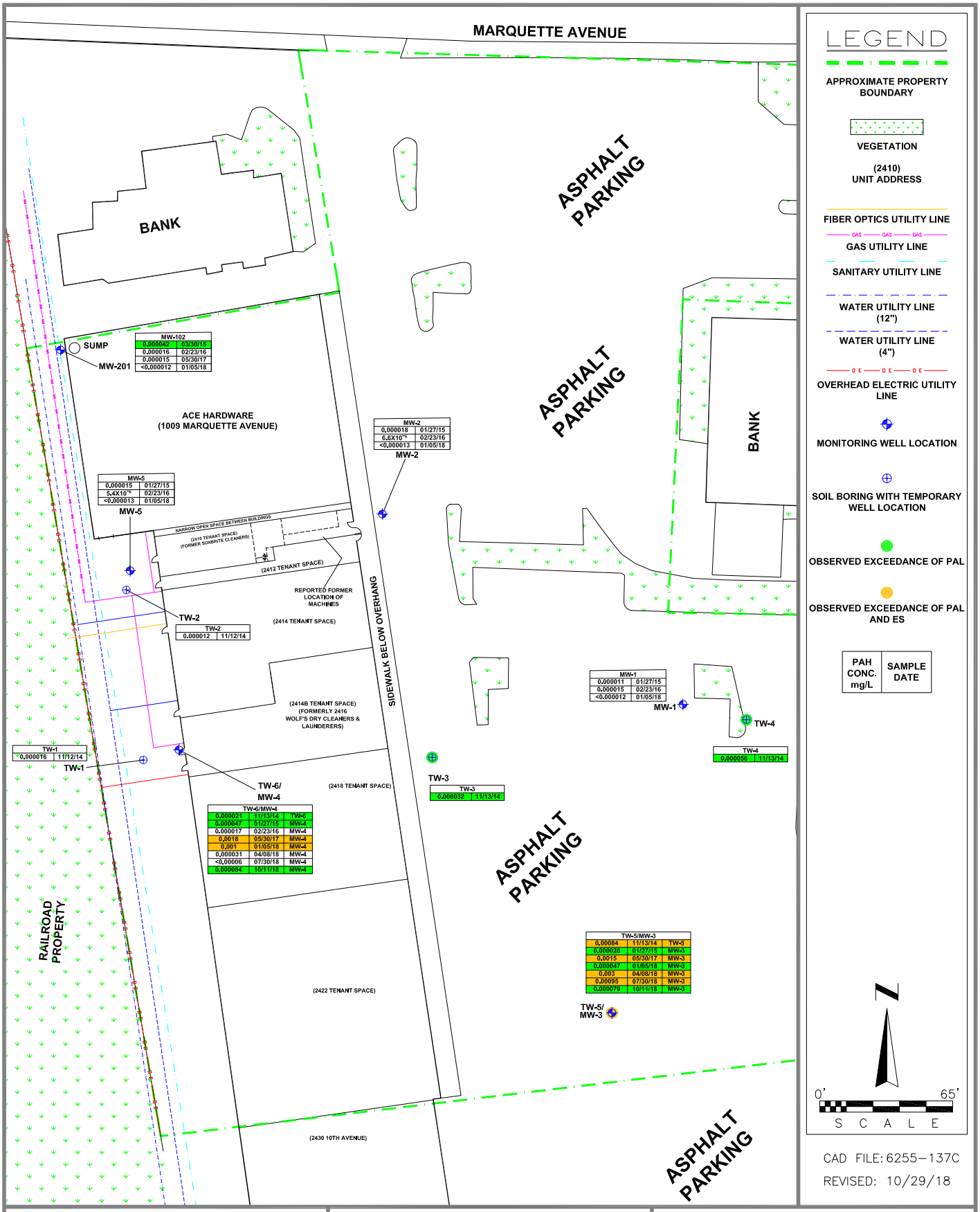
CAD FILE: 6255-136C

REVISED: 10/29/18

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)



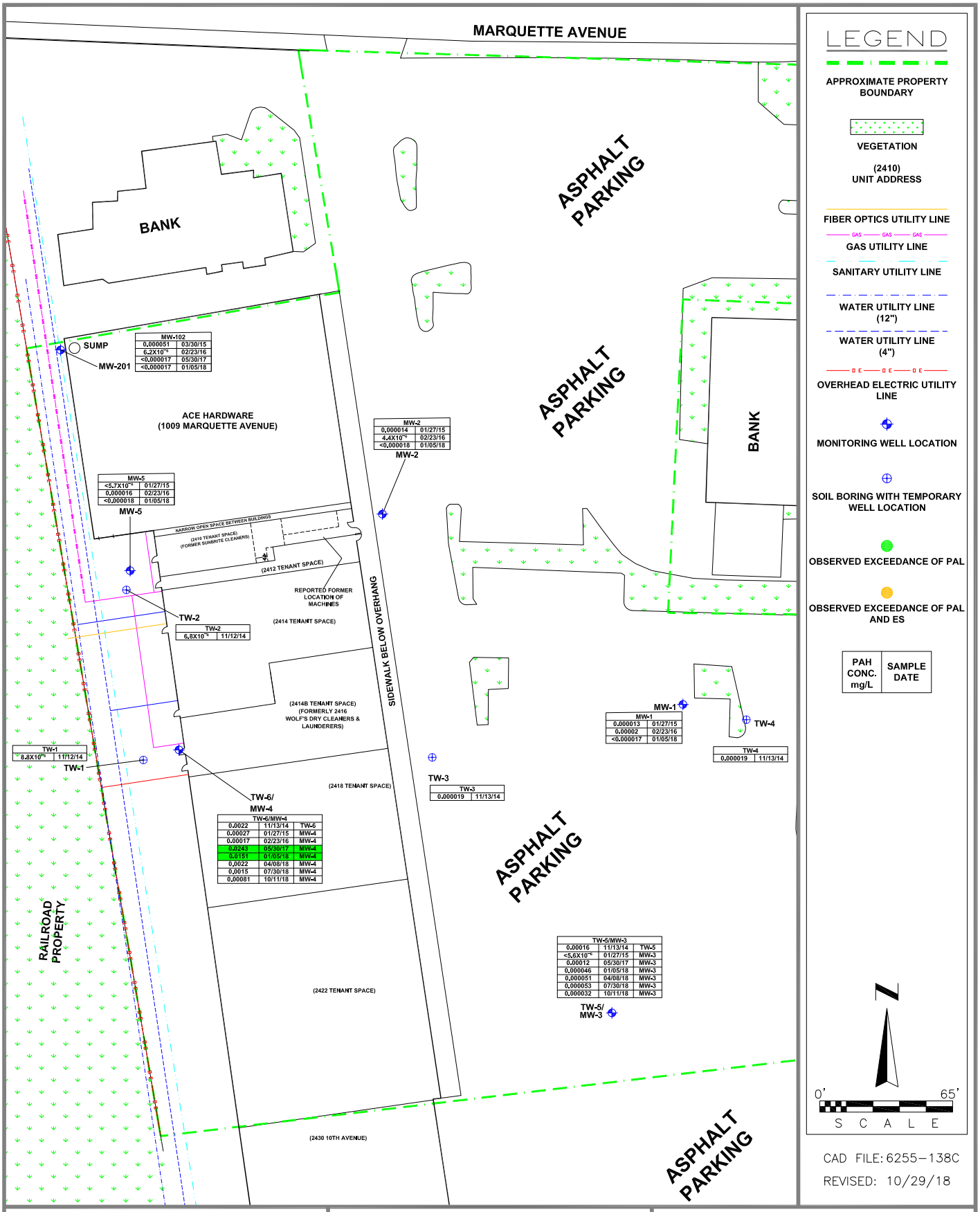
CAD FILE: 6255-137C

REVISED: 10/29/18

ENVIRONMENTAL

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

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



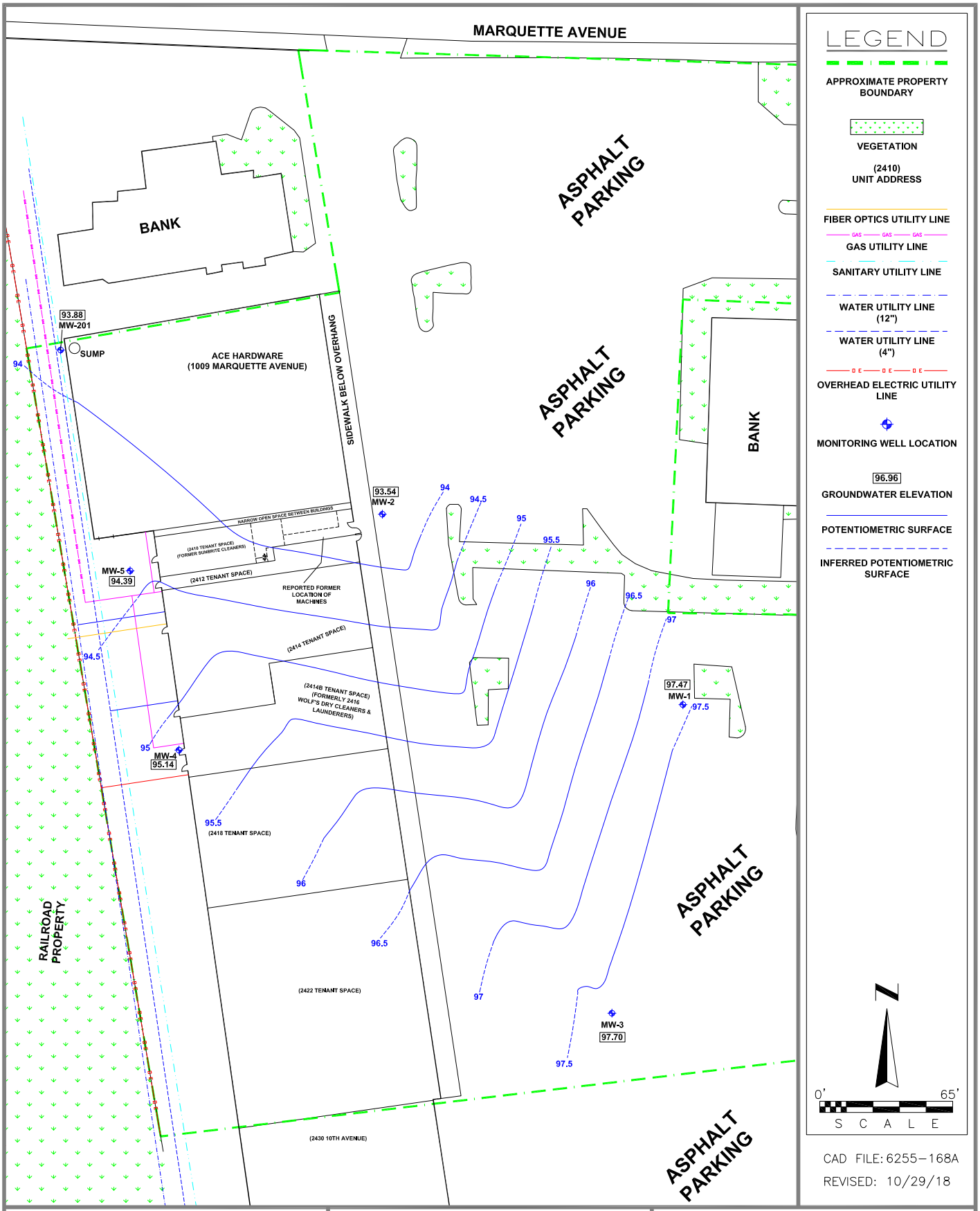
CAD FILE: 6255-138C

REVISED: 10/29/18

ENVIRONMENTAL DAI

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

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



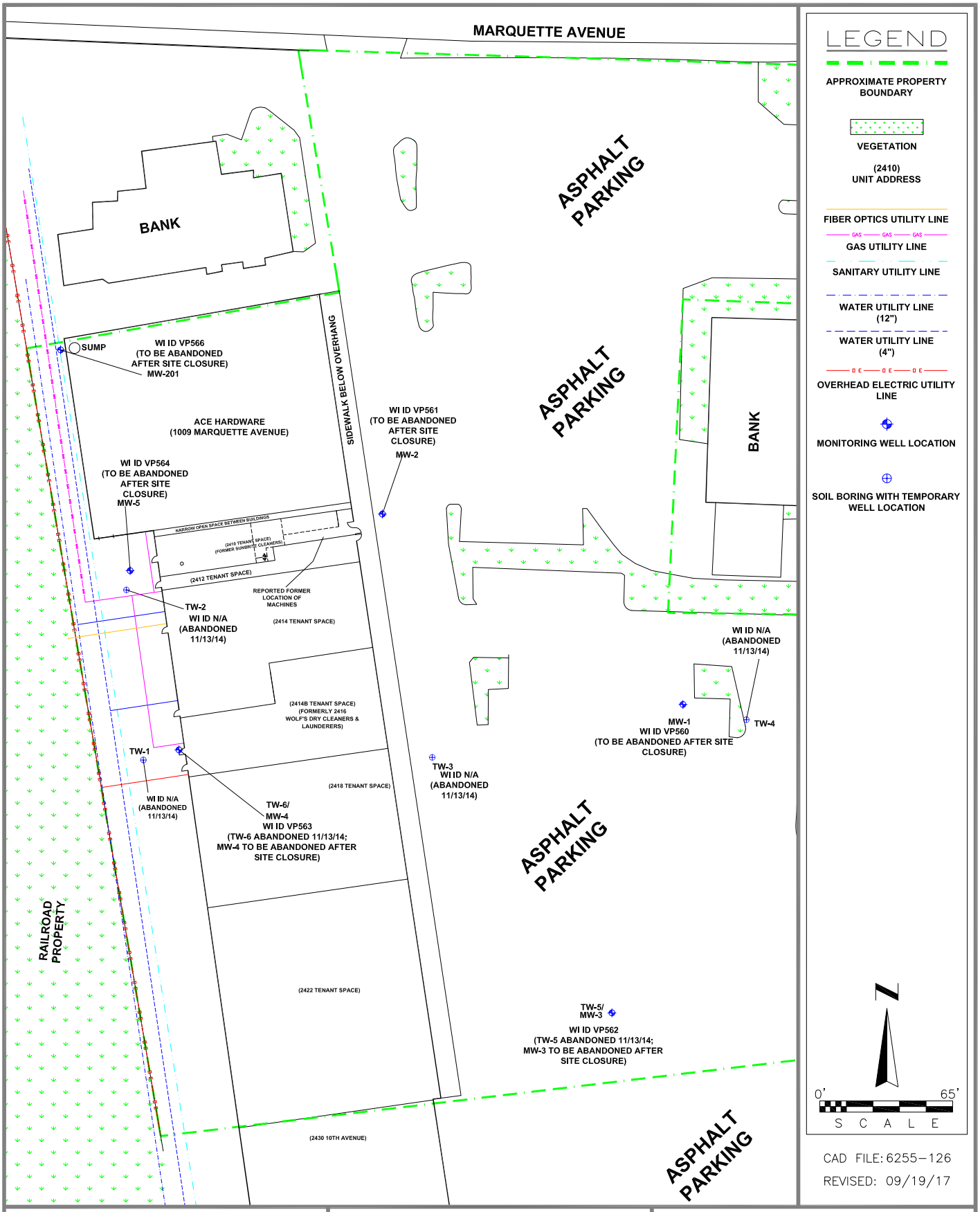
CAD FILE: 6255-168A

REVISED: 10/29/18

ENVIRONMENTAL

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

FIGURE B.3.c.6
GROUNDWATER FLOW DIRECTION
(OCTOBER 11, 2018)



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 REPORT
(FOURTH QUARTER 2018)

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

October 22, 2018

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

RE: Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

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

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

Sincerely,

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177639001	**MW-3**	Water	10/11/18 10:00	10/13/18 09:20
40177639002	**MW-4**	Water	10/11/18 12:00	10/13/18 09:20
40177639003	**MW-5**	Water	10/11/18 14:00	10/13/18 09:20

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

SAMPLE ANALYTE COUNT

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40177639001	**MW-3**	EPA 8270 by HVI	TPO	20
40177639002	**MW-4**	EPA 8270 by HVI	TPO	20
40177639003	**MW-5**	EPA 8260	HNW	64

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Sample: MW-3 **Lab ID: 40177639001** Collected: 10/11/18 10:00 Received: 10/13/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.010J**	ug/L	0.027	0.0055	1	10/18/18 11:25	10/18/18 21:05	83-32-9	
Acenaphthylene	**<0.0045**	ug/L	0.022	0.0045	1	10/18/18 11:25	10/18/18 21:05	208-96-8	
Anthracene	**0.020J**	ug/L	0.047	0.0094	1	10/18/18 11:25	10/18/18 21:05	120-12-7	
Benzo(a)anthracene	**0.017J**	ug/L	0.034	0.0068	1	10/18/18 11:25	10/18/18 21:05	56-55-3	
Benzo(a)pyrene	**0.024J**	ug/L	0.047	0.0095	1	10/18/18 11:25	10/18/18 21:05	50-32-8	
Benzo(b)fluoranthene	**0.074**	ug/L	0.026	0.0052	1	10/18/18 11:25	10/18/18 21:05	205-99-2	
Benzo(g,h,i)perylene	**0.037**	ug/L	0.031	0.0061	1	10/18/18 11:25	10/18/18 21:05	191-24-2	
Benzo(k)fluoranthene	**0.026J**	ug/L	0.034	0.0068	1	10/18/18 11:25	10/18/18 21:05	207-08-9	
Chrysene	**0.079**	ug/L	0.059	0.012	1	10/18/18 11:25	10/18/18 21:05	218-01-9	
Dibenz(a,h)anthracene	**<0.0090**	ug/L	0.045	0.0090	1	10/18/18 11:25	10/18/18 21:05	53-70-3	
Fluoranthene	**0.26**	ug/L	0.048	0.0096	1	10/18/18 11:25	10/18/18 21:05	206-44-0	
Fluorene	**0.031J**	ug/L	0.036	0.0072	1	10/18/18 11:25	10/18/18 21:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.027J**	ug/L	0.079	0.016	1	10/18/18 11:25	10/18/18 21:05	193-39-5	
1-Methylnaphthalene	**0.019J**	ug/L	0.027	0.0053	1	10/18/18 11:25	10/18/18 21:05	90-12-0	
2-Methylnaphthalene	**0.015J**	ug/L	0.022	0.0044	1	10/18/18 11:25	10/18/18 21:05	91-57-6	
Naphthalene	**0.032J**	ug/L	0.083	0.017	1	10/18/18 11:25	10/18/18 21:05	91-20-3	
Phenanthrene	**0.093**	ug/L	0.062	0.012	1	10/18/18 11:25	10/18/18 21:05	85-01-8	
Pyrene	**0.20**	ug/L	0.034	0.0069	1	10/18/18 11:25	10/18/18 21:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	29-80		1	10/18/18 11:25	10/18/18 21:05	321-60-8	
Terphenyl-d14 (S)	62	%	10-123		1	10/18/18 11:25	10/18/18 21:05	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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Sample: MW-4 **Lab ID: 40177639002** Collected: 10/11/18 12:00 Received: 10/13/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**4.0**	ug/L	0.083	0.017	3	10/18/18 11:25	10/19/18 01:05	83-32-9	
Acenaphthylene	**0.91**	ug/L	0.068	0.014	3	10/18/18 11:25	10/19/18 01:05	208-96-8	
Anthracene	**1.0**	ug/L	0.14	0.028	3	10/18/18 11:25	10/19/18 01:05	120-12-7	
Benzo(a)anthracene	**0.040J**	ug/L	0.10	0.021	3	10/18/18 11:25	10/19/18 01:05	56-55-3	
Benzo(a)pyrene	**<0.029**	ug/L	0.14	0.029	3	10/18/18 11:25	10/19/18 01:05	50-32-8	
Benzo(b)fluoranthene	**0.022J**	ug/L	0.078	0.016	3	10/18/18 11:25	10/19/18 01:05	205-99-2	
Benzo(g,h,i)perylene	**<0.018**	ug/L	0.092	0.018	3	10/18/18 11:25	10/19/18 01:05	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.10	0.021	3	10/18/18 11:25	10/19/18 01:05	207-08-9	
Chrysene	**0.084J**	ug/L	0.18	0.036	3	10/18/18 11:25	10/19/18 01:05	218-01-9	
Dibenz(a,h)anthracene	**<0.027**	ug/L	0.14	0.027	3	10/18/18 11:25	10/19/18 01:05	53-70-3	
Fluoranthene	**0.19**	ug/L	0.15	0.029	3	10/18/18 11:25	10/19/18 01:05	206-44-0	
Fluorene	**6.7**	ug/L	0.11	0.022	3	10/18/18 11:25	10/19/18 01:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.048**	ug/L	0.24	0.048	3	10/18/18 11:25	10/19/18 01:05	193-39-5	
1-Methylnaphthalene	**26.8**	ug/L	0.080	0.016	3	10/18/18 11:25	10/19/18 01:05	90-12-0	
2-Methylnaphthalene	**0.21**	ug/L	0.067	0.013	3	10/18/18 11:25	10/19/18 01:05	91-57-6	
Naphthalene	**0.81**	ug/L	0.25	0.050	3	10/18/18 11:25	10/19/18 01:05	91-20-3	D3
Phenanthrene	**5.9**	ug/L	0.19	0.038	3	10/18/18 11:25	10/19/18 01:05	85-01-8	
Pyrene	**1.0**	ug/L	0.10	0.021	3	10/18/18 11:25	10/19/18 01:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	29-80		3	10/18/18 11:25	10/19/18 01:05	321-60-8	
Terphenyl-d14 (S)	65	%	10-123		3	10/18/18 11:25	10/19/18 01:05	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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Sample: MW-5 **Lab ID: 40177639003** Collected: 10/11/18 14:00 Received: 10/13/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/16/18 17:36	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/16/18 17:36	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/16/18 17:36	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/16/18 17:36	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/16/18 17:36	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/16/18 17:36	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/16/18 17:36	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/16/18 17:36	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/18 17:36	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/16/18 17:36	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/16/18 17:36	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/16/18 17:36	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/16/18 17:36	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/16/18 17:36	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/16/18 17:36	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/16/18 17:36	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/16/18 17:36	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/16/18 17:36	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/16/18 17:36	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/16/18 17:36	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/16/18 17:36	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/16/18 17:36	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/16/18 17:36	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/16/18 17:36	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/16/18 17:36	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/16/18 17:36	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/16/18 17:36	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/16/18 17:36	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/16/18 17:36	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/16/18 17:36	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/16/18 17:36	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/16/18 17:36	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/16/18 17:36	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/16/18 17:36	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/16/18 17:36	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/16/18 17:36	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/16/18 17:36	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/16/18 17:36	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/16/18 17:36	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/16/18 17:36	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/16/18 17:36	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/16/18 17:36	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/16/18 17:36	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/16/18 17:36	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/16/18 17:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/16/18 17:36	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Sample: MW-5 **Lab ID: 40177639003** Collected: 10/11/18 14:00 Received: 10/13/18 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/16/18 17:36	79-34-5	
Tetrachloroethene	**21.0**	ug/L	1.1	0.33	1		10/16/18 17:36	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/16/18 17:36	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/16/18 17:36	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/16/18 17:36	120-82-1	
1,1,1-Trichloroethane	**0.95J**	ug/L	1.0	0.24	1		10/16/18 17:36	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/16/18 17:36	79-00-5	
Trichloroethene	**0.27J**	ug/L	1.0	0.26	1		10/16/18 17:36	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/18 17:36	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/16/18 17:36	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/16/18 17:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/16/18 17:36	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/16/18 17:36	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/16/18 17:36	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/16/18 17:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/16/18 17:36	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/16/18 17:36	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/16/18 17:36	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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

QC Batch: 303154 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40177639003

METHOD BLANK: 1770805 Matrix: Water
Associated Lab Samples: 40177639003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/16/18 06:58	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/16/18 06:58	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/16/18 06:58	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/16/18 06:58	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/16/18 06:58	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/16/18 06:58	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/16/18 06:58	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/16/18 06:58	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/16/18 06:58	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/16/18 06:58	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/16/18 06:58	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/16/18 06:58	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/16/18 06:58	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/16/18 06:58	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/16/18 06:58	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/16/18 06:58	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/16/18 06:58	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/16/18 06:58	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/16/18 06:58	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/16/18 06:58	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/16/18 06:58	
2-Chlorotoluene	ug/L	<0.93	5.0	10/16/18 06:58	
4-Chlorotoluene	ug/L	<0.76	2.5	10/16/18 06:58	
Benzene	ug/L	<0.25	1.0	10/16/18 06:58	
Bromobenzene	ug/L	<0.24	1.0	10/16/18 06:58	
Bromochloromethane	ug/L	<0.36	5.0	10/16/18 06:58	
Bromodichloromethane	ug/L	<0.36	1.2	10/16/18 06:58	
Bromoform	ug/L	<4.0	13.2	10/16/18 06:58	
Bromomethane	ug/L	<0.97	5.0	10/16/18 06:58	
Carbon tetrachloride	ug/L	<0.17	1.0	10/16/18 06:58	
Chlorobenzene	ug/L	<0.71	2.4	10/16/18 06:58	
Chloroethane	ug/L	<1.3	5.0	10/16/18 06:58	
Chloroform	ug/L	<1.3	5.0	10/16/18 06:58	
Chloromethane	ug/L	<2.2	7.3	10/16/18 06:58	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/16/18 06:58	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/16/18 06:58	
Dibromochloromethane	ug/L	<2.6	8.7	10/16/18 06:58	
Dibromomethane	ug/L	<0.94	3.1	10/16/18 06:58	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/16/18 06:58	
Diisopropyl ether	ug/L	<1.9	6.3	10/16/18 06:58	
Ethylbenzene	ug/L	<0.22	1.0	10/16/18 06:58	

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

METHOD BLANK: 1770805 Matrix: Water
Associated Lab Samples: 40177639003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/16/18 06:58	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/16/18 06:58	
m&p-Xylene	ug/L	<0.47	2.0	10/16/18 06:58	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/16/18 06:58	
Methylene Chloride	ug/L	<0.58	5.0	10/16/18 06:58	
n-Butylbenzene	ug/L	<0.71	2.4	10/16/18 06:58	
n-Propylbenzene	ug/L	<0.81	5.0	10/16/18 06:58	
Naphthalene	ug/L	<1.2	5.0	10/16/18 06:58	
o-Xylene	ug/L	<0.26	1.0	10/16/18 06:58	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/16/18 06:58	
sec-Butylbenzene	ug/L	<0.85	5.0	10/16/18 06:58	
Styrene	ug/L	<0.47	1.6	10/16/18 06:58	
tert-Butylbenzene	ug/L	<0.30	1.0	10/16/18 06:58	
Tetrachloroethene	ug/L	<0.33	1.1	10/16/18 06:58	
Toluene	ug/L	<0.17	5.0	10/16/18 06:58	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/16/18 06:58	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/16/18 06:58	
Trichloroethene	ug/L	<0.26	1.0	10/16/18 06:58	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/16/18 06:58	
Vinyl chloride	ug/L	<0.17	1.0	10/16/18 06:58	
4-Bromofluorobenzene (S)	%	96	70-130	10/16/18 06:58	
Dibromofluoromethane (S)	%	110	70-130	10/16/18 06:58	
Toluene-d8 (S)	%	101	70-130	10/16/18 06:58	

LABORATORY CONTROL SAMPLE: 1770806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.4	109	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	67-130	
1,1,2-Trichloroethane	ug/L	50	47.3	95	70-130	
1,1-Dichloroethane	ug/L	50	51.3	103	70-134	
1,1-Dichloroethene	ug/L	50	51.6	103	75-132	
1,2,4-Trichlorobenzene	ug/L	50	46.5	93	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	49.2	98	73-134	
1,2-Dichloropropane	ug/L	50	44.3	89	79-128	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	51.7	103	69-137	
Bromodichloromethane	ug/L	50	48.3	97	70-130	
Bromoform	ug/L	50	47.5	95	64-133	
Bromomethane	ug/L	50	31.4	63	29-123	

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

LABORATORY CONTROL SAMPLE: 1770806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.2	106	73-142	
Chlorobenzene	ug/L	50	49.2	98	70-130	
Chloroethane	ug/L	50	44.3	89	59-133	
Chloroform	ug/L	50	51.0	102	80-129	
Chloromethane	ug/L	50	37.8	76	27-125	
cis-1,2-Dichloroethene	ug/L	50	52.1	104	70-134	
cis-1,3-Dichloropropene	ug/L	50	42.7	85	70-130	
Dibromochloromethane	ug/L	50	53.3	107	70-130	
Dichlorodifluoromethane	ug/L	50	32.8	66	12-127	
Ethylbenzene	ug/L	50	48.8	98	86-127	
Isopropylbenzene (Cumene)	ug/L	50	51.1	102	70-130	
m&p-Xylene	ug/L	100	101	101	70-131	
Methyl-tert-butyl ether	ug/L	50	44.8	90	65-136	
Methylene Chloride	ug/L	50	51.2	102	72-133	
o-Xylene	ug/L	50	48.5	97	70-130	
Styrene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	44.0	88	70-130	
Toluene	ug/L	50	48.0	96	84-124	
trans-1,2-Dichloroethene	ug/L	50	51.6	103	70-133	
trans-1,3-Dichloropropene	ug/L	50	40.9	82	67-130	
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	54.1	108	69-147	
Vinyl chloride	ug/L	50	45.1	90	48-134	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770807 1770808

Parameter	Units	40177655011 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	ug/L	<0.24	50	50	54.9	57.8	110	116	70-136	5	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.4	49.1	95	98	67-133	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	47.3	48.6	95	97	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	52.3	53.8	105	108	70-139	3	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	51.0	53.1	102	106	72-137	4	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	46.3	48.4	92	96	68-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	44.5	48.7	89	97	60-130	9	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.2	50.5	98	101	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.8	52.9	100	106	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	49.6	51.2	99	102	71-137	3	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	44.7	45.6	89	91	78-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.8	51.9	97	103	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.8	52.4	97	104	70-130	7	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770807 1770808

Parameter	Units	40177655011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	51.9	54.1	104	108	66-143	4	20	
Bromodichloromethane	ug/L	<0.36	50	50	48.4	50.2	97	100	70-130	4	20	
Bromoform	ug/L	<4.0	50	50	47.5	47.9	95	96	64-134	1	20	
Bromomethane	ug/L	<0.97	50	50	32.0	34.8	64	70	29-136	8	25	
Carbon tetrachloride	ug/L	<0.17	50	50	55.7	56.7	111	113	73-142	2	20	
Chlorobenzene	ug/L	<0.71	50	50	49.6	51.5	99	103	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	42.7	45.1	85	90	58-138	5	20	
Chloroform	ug/L	<1.3	50	50	51.1	53.4	102	107	80-131	4	20	
Chloromethane	ug/L	<2.2	50	50	37.7	40.2	75	80	24-125	6	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.4	53.0	103	106	68-137	3	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.5	44.7	87	89	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	54.4	56.4	109	113	70-131	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.5	32.8	63	66	10-127	4	20	
Ethylbenzene	ug/L	<0.22	50	50	49.3	52.0	99	104	81-136	5	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.7	53.9	103	108	70-132	4	20	
m&p-Xylene	ug/L	<0.47	100	100	102	107	102	107	70-135	5	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.7	45.9	89	92	58-142	3	23	
Methylene Chloride	ug/L	<0.58	50	50	49.6	52.7	99	105	69-137	6	20	
o-Xylene	ug/L	<0.26	50	50	48.6	51.8	97	104	70-132	6	20	
Styrene	ug/L	<0.47	50	50	50.4	52.4	101	105	70-130	4	20	
Tetrachloroethene	ug/L	<0.33	50	50	44.9	47.5	90	95	70-132	5	20	
Toluene	ug/L	<0.17	50	50	48.5	50.9	97	102	81-130	5	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	52.0	54.0	104	108	70-136	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.1	43.7	86	87	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	49.2	51.1	98	102	70-131	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	55.0	55.5	110	111	66-150	1	20	
Vinyl chloride	ug/L	<0.17	50	50	45.0	47.1	90	94	46-134	5	20	
4-Bromofluorobenzene (S)	%						101	101	70-130			
Dibromofluoromethane (S)	%						107	109	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

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

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

QC Batch: 303583
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40177639001, 40177639002

METHOD BLANK: 1773343
Matrix: Water
Associated Lab Samples: 40177639001, 40177639002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	10/18/18 15:35	
2-Methylnaphthalene	ug/L	<0.0049	0.024	10/18/18 15:35	
Acenaphthene	ug/L	<0.0061	0.030	10/18/18 15:35	
Acenaphthylene	ug/L	<0.0050	0.025	10/18/18 15:35	
Anthracene	ug/L	<0.010	0.052	10/18/18 15:35	
Benzo(a)anthracene	ug/L	<0.0076	0.038	10/18/18 15:35	
Benzo(a)pyrene	ug/L	<0.011	0.053	10/18/18 15:35	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	10/18/18 15:35	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	10/18/18 15:35	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	10/18/18 15:35	
Chrysene	ug/L	<0.013	0.065	10/18/18 15:35	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	10/18/18 15:35	
Fluoranthene	ug/L	<0.011	0.053	10/18/18 15:35	
Fluorene	ug/L	<0.0080	0.040	10/18/18 15:35	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	10/18/18 15:35	
Naphthalene	ug/L	<0.018	0.092	10/18/18 15:35	
Phenanthrene	ug/L	<0.014	0.069	10/18/18 15:35	
Pyrene	ug/L	<0.0076	0.038	10/18/18 15:35	
2-Fluorobiphenyl (S)	%	65	29-80	10/18/18 15:35	
Terphenyl-d14 (S)	%	114	10-123	10/18/18 15:35	

LABORATORY CONTROL SAMPLE: 1773344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.1	55	50-91	
2-Methylnaphthalene	ug/L	2	1.1	57	48-89	
Acenaphthene	ug/L	2	1.2	61	48-120	
Acenaphthylene	ug/L	2	1.2	61	44-84	
Anthracene	ug/L	2	1.5	76	57-120	
Benzo(a)anthracene	ug/L	2	1.3	67	33-108	
Benzo(a)pyrene	ug/L	2	1.4	72	55-108	
Benzo(b)fluoranthene	ug/L	2	1.4	72	47-106	
Benzo(g,h,i)perylene	ug/L	2	0.74	37	20-75	
Benzo(k)fluoranthene	ug/L	2	1.4	70	50-116	
Chrysene	ug/L	2	1.6	81	64-140	
Dibenz(a,h)anthracene	ug/L	2	0.56	28	14-70	
Fluoranthene	ug/L	2	1.4	70	61-112	
Fluorene	ug/L	2	1.4	68	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	60	43-105	
Naphthalene	ug/L	2	1.0	52	38-90	

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

LABORATORY CONTROL SAMPLE: 1773344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.4	71	47-105	
Pyrene	ug/L	2	1.7	87	62-119	
2-Fluorobiphenyl (S)	%			58	29-80	
Terphenyl-d14 (S)	%			92	10-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1773345 1773346

Parameter	Units	40177653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0061	2.2	2.1	1.4	1.2	63	56	41-93	14	24	
2-Methylnaphthalene	ug/L	<0.0051	2.2	2.1	1.4	1.2	66	59	45-120	14	28	
Acenaphthene	ug/L	<0.0063	2.2	2.1	1.5	1.2	69	59	38-120	19	23	
Acenaphthylene	ug/L	<0.0051	2.2	2.1	1.5	1.2	69	59	33-84	18	25	
Anthracene	ug/L	<0.011	2.2	2.1	1.8	1.4	82	68	37-120	23	27	
Benzo(a)anthracene	ug/L	<0.0078	2.2	2.1	1.5	1.1	70	51	10-108	35	31	R1
Benzo(a)pyrene	ug/L	<0.011	2.2	2.1	1.5	1.1	68	53	10-108	28	29	
Benzo(b)fluoranthene	ug/L	<0.0059	2.2	2.1	1.5	1.2	68	54	10-106	26	27	
Benzo(g,h,i)perylene	ug/L	<0.0070	2.2	2.1	0.77	0.52	35	25	10-120	39	33	R1
Benzo(k)fluoranthene	ug/L	<0.0078	2.2	2.1	1.5	1.1	67	50	10-116	31	28	R1
Chrysene	ug/L	<0.013	2.2	2.1	1.7	1.4	80	67	19-140	21	30	
Dibenz(a,h)anthracene	ug/L	<0.010	2.2	2.1	0.66	0.43	31	20	10-120	43	40	R1
Fluoranthene	ug/L	<0.011	2.2	2.1	1.6	1.3	75	60	38-112	26	28	
Fluorene	ug/L	<0.0082	2.2	2.1	1.7	1.3	77	63	42-120	22	25	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2.2	2.1	1.0	0.73	48	35	10-105	35	30	R1
Naphthalene	ug/L	<0.019	2.2	2.1	1.3	1.2	61	56	38-120	11	26	
Phenanthrene	ug/L	<0.014	2.2	2.1	1.7	1.3	80	62	39-105	28	24	R1
Pyrene	ug/L	<0.0079	2.2	2.1	2.0	1.5	91	73	38-119	25	32	
2-Fluorobiphenyl (S)	%						68	58	29-80			
Terphenyl-d14 (S)	%						92	73	10-123			

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40177639

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177639001	**MW-3**	EPA 3510	303583	EPA 8270 by HVI	303680
40177639002	**MW-4**	EPA 3510	303583	EPA 8270 by HVI	303680
40177639003	**MW-5**	EPA 8260	303154		

Pace Analytical®
www.pacelabs.com

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

MH

4017739

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
Branch/Location:	LAKE FOREST
Project Contact:	CHRIS CAILLEI
Phone:	847 573 8900
Project Number:	625T
Project Name:	SUNRISE SHOPPING CENTER
Project State:	WI
Sampled By (Print):	DAN TRAEN
Sampled By (Sign):	
PO #:	Regulatory Program:

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: PVOC	Analyses Requested: VOC
001	MW-3	10/11/18	1000	GW			X	
002	MW-4	↓	1200	↓			X	
003	MW-5		1400	↓				X

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 #

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]	10-12-18 11:08	[signature]	10/12/18 1108
[signature]	10/12/18 1900	CS Logistics	10/12/18
CS Logistics	10/13/18 0920	[signature]	10/13/18

PACE Project No.: 40177639

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: DAI

Project # 40177639

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:

	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *						
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001					2																												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	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40177639**

Client Name: DAI

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

Cooler Temperature Uncorr: NA /Corr: _____

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.

Person examining contents:
Date: 12/13/18
Initials: _____

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. mail to invoice 12/13/18
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:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
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. 10 times 12/13/18
-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: _____

Project Manager Review: _____ **Date:** 12/13/18