

May 12, 2017

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

**Re: *Site Investigation Work Plan***  
***BRRTS #: 02-41-576336***  
***FID #: 241828620***  
***Sunrise Shopping Center***  
***2410-2424 10<sup>th</sup> Avenue & 1009 Marquette Avenue***  
***South Milwaukee, Wisconsin 53172***

Mr. Neumann:

Following the submission of a *Site Investigation Report Addendum* dated October 19, 2015, for the Sunrise Shopping Center (Site), Wisconsin Department of Natural Resources (WDNR) issued a response letter dated March 27, 2017. In the letter, WDNR indicated that further sampling activities were required before the Site Investigation could be considered complete per NR 716 requirements. The letter also requested that updated information be added to the Site Investigation Report. The March 2017 letter also established a timeline for the submission of a work plan, subsequent field activities, and the submission of an amended Site Investigation Report.

This *Site Investigation Work Plan* (SIWP) proposes additional soil, groundwater, and vapor sampling as provided in more detail below. Other information requested in WDNR's March 2017 letter will be included in the *Site Investigation Report Amendment* (SIR Amendment).

## **SUMMARY OF PREVIOUS SITE INVESTIGATIONS**

### **Groundwater Contamination**

During initial investigations, six (6) temporary monitoring wells (TW-1 to TW-6) were installed. Subsequently, five (5) permanent monitoring wells (MW-1 to MW-5) were installed. MW-3 replicated TW-5, and MW-4 replicated TW-6. MW-1 and MW-5 generally replicated TW-4 and TW-2, respectively. Later, a sixth monitoring well (MW-201) was installed. Figure B.1.b.2 depicts the locations of all temporary and permanent monitoring well locations.

After collecting groundwater samples, the temporary monitoring wells were abandoned. Each permanent monitoring well has been sampled twice, with the exception of MW-3, which was damaged by snow removal operations. A historical summary of all groundwater samples

collected VOCs and PAHs since November 2014 is summarized in Tables A.1.A (VOCs) and A.1.B (PAHs). Results are compared to Preventative Action Limits (PALs) and Enforcement Standards listed in Table 1 of Wisconsin Administrative Code Chapter NR 140. A summary is provided below:

#### VOCs

- Perc groundwater contamination was originally identified in TW-2. The two (2) samples collected in MW-5, which generally replicated TW-2, confirmed the presence of Perc at concentrations exceeding the PAL. The most recent (February 2016) result of 0.0083-mg/L is above both the PAL and the Enforcement Standard.
- The February 2016 groundwater sample collected from MW-4 indicated a Benzene concentration above the PAL, but two (2) previous samples (TW-6 and first sample of MW-4) did not indicate any detectable concentrations of VOCs.

#### PAHs

- Benzo(b)fluoranthene and Chrysene were observed in TW-3 marginally above the PALs.
- PAHs were observed at concentrations above the PALs in TW-4. Two (2) replicate samples from MW-1, installed to generally replicate TW-4 and within a location of known PAH soil contamination, do not indicate any observed exceedances.
- PAHs were observed at concentrations above the Enforcement Standards in TW-5. The groundwater sample collected from MW-3 (which replicated TW-5) indicates only one (1) PAH constituent (Chrysene) at a concentration above the PAL. No additional samples could be collected from MW-3 due to damage to the well from snow removal operations.
- Chrysene was observed at a concentration above the PAL in TW-6 and the first sample collected from MW-4 indicated PAL exceedances for Benzo(b)fluoranthene and Chrysene. The latest round of sampling from MW-4 did not indicate any PAH concentrations above the PALs.
- Benzo(b)fluoranthene and Chrysene were observed at concentrations above the PALs in MW-201, but no PAH concentrations above the PALs have been observed in the most recent sample.

In summary, Perc contamination is observed in MW-5 at a concentration exceeding the Enforcement Standard, and the Benzene concentration in MW-4 is marginally above the PAL. Based upon the most recent groundwater sampling completed in February 2016, all PAHs are at concentrations below the PALs. Figures B.3.b.1 (VOCs) and B.3.b.2 (PAHs) provide the locations of observed PAL exceedances and associated contaminants and concentrations.

#### **Soil Contamination**

Multiple rounds of soil sampling have been performed during previous Site Investigations. Figure B.1.b.2 depicts the locations of all soil borings installed between November 2014 and September 2016. Soil contamination has been identified for Volatile Organic Compounds (VOCs) and Polynuclear Aromatic Hydrocarbons (PAHs). To reflect the March 2017 update to the WDNR Residual Contaminant Levels (RCLs), all previous soil sample results have been re-evaluated and compared to the current cleanup objectives. The results of the updated evaluation are provided in Attachment A as Tables A.2.A (VOCs) and A.2.B (PAHs). Results are compared

to the RCLs for protection of groundwater (GW RCL) and both the Non-Industrial (Residential) and Industrial Direct Contact (DC) RCLs.

Based upon re-evaluation of the data, contaminant concentrations exceeding the applicable (GW and Industrial DC) RCLs are observed for the VOCs Benzene, 1,1-Dichloroethane (DCA), Methylene chloride, Tetrachloroethene (Perc), and Trichloroethene (TCE) and the PAHs Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene. Figure B.2.a.1 in Attachment B provides the locations of observed PAH contamination. Figure B.2.a.2 provides the locations for VOC soil contamination.

**Contamination Along Southern Property Boundary:** Benzene, Methylene chloride, and PAH contamination are located within the south-central portion of the Site. Benzene contamination within the southern portion of the property has been fully defined (see Figure B.2.a.2.a). The single MC exceedance is observed in soil boring GP-209 at a concentration above the Limit of Detection (LOD), but below the Limit of Quantification (LOQ). Methylene chloride is not observed in any of the other 67 soil samples collected on-site. Further, Methylene chloride is a common laboratory artifact. Therefore, while appropriate measures will be implemented to address the observed Methylene chloride exceedance in GP-209, no further Site Investigation activities are proposed.

As shown in Figure B.2.a.1.a, the extent of Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene contamination is nearly delineated with only delineation to the south of soil boring GP-302 missing. However, further delineation to the south requires off-site access since the southern property boundary is approximately 7-ft from GP-302. Previous requests for access to the property to the south of the Site have been denied, although an additional new request has been submitted recently. (It is believed that the ownership of the property to the south may have recently changed.) An access request has been submitted to the owner of the neighboring property to the south.

**Former AST Area:** Another area of PAH contamination is observed in the central/east-central portion of the Site, associated with known leaking aboveground storage tank/s and for which a Case Closure was previously issued in May 1998. As shown in Figure B.2.a.1.b, PAHs are observed in soil borings GP-8, GP-101, and GP-102, all at a sample depth of 2-ft to 4-ft bgs. The deeper sample collected from GP-8R vertically delineates the PAH contamination. Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene are observed at concentrations above the applicable RCLs in GP-8 and GP-101, but not in GP-9 and GP-10, which were installed in between GP-8 and GP-101. Only Chrysene is observed in GP-102 above the applicable RCL.

**Former Heating Oil UST Area:** The Naphthalene contamination is limited to an isolated area behind (west of) the 2414B tenant space of the main building (see Figure B.2.a.1). Soil contamination is only observed above the RCL in soil boring GP-13 at a depth of 4-ft to 6-ft bgs. Delineation of Naphthalene contamination has been completed both horizontally and vertically. No further soil sampling is proposed for Naphthalene.

**Former Drycleaner Area:** Chlorinated VOC (CVOC) contamination is located within the west-central portion of the Site, inside and behind (west of) the 2410-2412 tenant spaces. Figure B.2.a.2 shows the locations of observed VOC contamination. Three (3) CVOCs are

observed at concentrations above the applicable RCLs within the west-central portion of the Site, including DCA, Perc, and TCE.

DCA contamination is observed in soil boring GP-2 at a depth of 8-ft to 10-ft bgs. Similar to Methylene chloride, DCA was only observed in one (1) of 68 total soil samples analyzed for VOCs.

As observed in Figure B.2.a.2.b, PCE soil contamination is observed in the area of the Site where the former Sunbrite Cleaners drycleaning facility was located (the 2410 tenant space). Available data indicate that two (2) areas of contamination appear to be present: one (1) below the tenant space in the reported former location of the drycleaning machines, the other to the west of the building within the area of the service drive. PCE concentrations are observed exceeding the GW RCL in 16 soil borings. Three (3) of the soil borings (GP-114, GP-202, and GP-407) are observed with TCE concentrations above the GW RCL (see Figure B.2.a.2.c). Two (2) additional soil borings (GP-402 and GP-405) with elevated LODs due to heavy sample dilution are also considered to show TCE exceedances.

### **Vapor Intrusion**

Due to the presence of VOCs in the subsurface near and inside the buildings, vapor sampling has been performed as part of the Site Investigations. Vapor sampling has consisted of sub-slab samples, soil gas samples, and indoor air samples. During the initial vapor sampling, sub-slab samples were collected from below the Ace Hardware building addressed as 1009 Marquette Avenue, as well as the multi-tenant spaces within the commercial strip and addressed as 2410-2414B 10<sup>th</sup> Avenue. Subsequent investigations have been isolated to the 2412 and 2414 tenant spaces. Figure B.1.b.2 depicts the locations of all vapor sampling locations.

A summary of the various vapor samples is summarized in Tables A.4.A (sub-slab), A.4.B (soil gas), and A.4.C (indoor air). Results of sub-slab and soil gas samples are compared to the Vapor Risk Screening Levels (VRSLs), and indoor air samples are compared to the Vapor Action Levels (VALs), as taken from the *Quick Look-Up Table, Indoor Air Vapor Action Levels and Vapor Risk Screening Levels*.

Review of the summary tables indicates that sub-slab vapor sample SS-6, collected in the 2410 tenant space, is observed with an exceedance of the Perc VRSL. Sub-slab vapor sample SS-101, collected in the adjacent (2412) tenant space, is observed with an exceedance of the Naphthalene VRSL. However, neither the soil gas nor the indoor air samples from the two (2) tenant spaces indicated contaminant concentrations above the applicable standards. No additional vapor intrusion sampling is proposed.

## **PROPOSED FIELD ACTIVITIES**

### **Groundwater Sampling**

In the March 2017 letter, WDNR requested additional groundwater sampling to address the possibility of increasing VOC concentrations with time. Therefore, a complete round of groundwater sampling will be collected from all accessible monitoring wells and analyzed for VOCs. The groundwater samples collected from MW-4 and MW-201 will also be analyzed for PAHs to confirm the February 2016 results, which indicate no exceedances of the PALs. No

PAH analysis will be performed on MW-1, MW-2, or MW-5, which have twice shown no PAH concentrations above the PALs. (If possible MW-3 will be sampled using a peristaltic pump and analyzed for VOCs and PNAs.)

In addition to the collection of groundwater samples from all existing and accessible monitoring wells, one (1) new monitoring well will be installed to the west of MW-5 for VOC analysis, provided off-site access is granted. A request for access has been submitted to the railroad, owner of the property to the west.

## **Soil Sampling**

**Contamination Along Southern Property Boundary:** A total of six (6) soil borings are proposed for PAH delineation to the south of GP-302. Three (3) on-site soil borings (GP-501 to GP-503) are proposed within the southern-most portion of the property, and three (3) off-site soil borings (GP-501A to GP-503A) are proposed, provided off-site access is granted. Proposed sample locations are shown in Figure B.2.a.1.a.

Soil samples for horizontal delineation of contamination will be collected from each soil boring at a pre-determined sample depth of 2-ft to 4-ft below ground surface (bgs), the depth at which contamination has been previously identified. One (1) soil sample will be collected at 8-ft to 10-ft bgs from the soil boring/s installed directly south of GP-302 to confirm the previously defined vertical delineation and to complete updated soil cross-sections. All soil samples will be analyzed for PAHs.

**Former AST Area:** A total of six (6) soil borings (GP-504 and GP-509) are proposed for further PAH delineation. Samples are proposed to be installed around GP-8 and GP-102 (see Figure B.2.a.1.b). Sampling is not proposed around GP-101, which is already near the property boundary. All soil samples will be collected from 2-ft to 4-ft bgs and analyzed for PAH.

**Former Drycleaner Area:** A total of 16 soil borings are proposed for CVOC delineation, including three (3) off-site soil samples. Figure B.2.a.2.b provides the locations of the proposed delineation soil borings. Soil samples will be collected for VOCs, generally at 2-ft to 4-ft and 6-ft to 8-ft bgs (inside the building) or 8-ft to 10-ft bgs (outside of the building).

DCA contamination in GP-2 is delineated to the north and south. Three (3) soil boring locations are proposed for DCA delineation. To complete horizontal delineation, one (1) soil boring will be completed to the east (GP-510) and to the west (GP-511), with soil samples collected at a depth of 8-ft to 10-ft bgs. Additionally, soil boring GP-2 will be replicated (GP-2R), with soil samples collected at 6-ft to 8-ft bgs and 10-ft to 12-ft bgs for vertical delineation.

A total of 13 proposed soil boring locations are proposed for PCE/TCE delineation. The soil borings are intended to better define the observed contamination and/or to verify that the observed impact inside and outside of the building are separated contaminant areas. Two (2) soil borings (GP-512 and GP-513) will be installed in front (east) of tenant spaces 2410 and 2412, and five (5) soil borings (GP-514 to GP-518) are proposed for inside of the two (2) impacted tenant spaces. Because of continued refusal at approximately 8-ft bgs while using the hand-cart direct-push unit, vertical delineation inside of the building may not be possible.

To complete horizontal delineation outside the western wall of the building, two (2) soil borings (GP-519 and GP-520) will be installed on-site behind the building, and three (3) soil borings (GP-521 to GP-523) will be installed off-site (if access is granted). To complete vertical delineation of contamination observed in soil borings GP-309 and GP-311 at 8-ft to 10-ft bgs, soil boring GP-311 (which has the higher contaminant concentrations) will be replicated. Soil samples from GP-311R will be collected at 10-ft to 12-ft bgs (or deeper per field observations). Vertical delineation outside of the building is otherwise completed by soil samples collected at 8-ft to 10-ft.

### **Impacts to Receptors**

To investigate potential manmade contaminant migration pathways, a utility survey will be conducted within units 2410 and 2412. The location and direction of utilities outside the western wall of the building will also be verified, including lateral feeds into Ace Hardware and tenant spaces 2410-2414B.

### **Remedial Actions**

To better define the Perc source area inside the former drycleaner space and assess potential remedial action options that will be required to reduce the observed contamination, additional samples have been proposed (see discussion above). Figure B.2.a.2.b provides the locations of the proposed soil borings inside of the former drycleaner (2410) and adjacent tenant space (2412).

### **Schedule**

Site investigations will begin with 30-days of this SIWP submission. The SIR Amendment will be submitted within 60-days after completion of the field activities, as required per NR 716.15(1).

If you have any questions, require additional information, or would like to discuss the proposed locations, please contact me at 847-573-8900 extension 580. Thank you for your time and assistance.

Sincerely,

**DAI Environmental, Inc.**



Christopher Cailles, P.E.  
Project Engineer

Attachments

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

**ATTACHMENT A  
TABLES**





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

Volatile Organic Compound	Sample Location (Sample Date)						PAL <sup>1</sup>	ES <sup>2</sup>
	TW-1 (11/12/14)	TW-3 (11/13/14)	TW-4 (11/13/14)	MW-1 (1/27/15)	MW-1 (2/23/16)	MW-2 (1/27/15)		
p-Isopropyltoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Styrene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	0.00002	0.0002
Tetrachloroethene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Toluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.04	0.2
1,1,2-Trichloroethane	<0.00016	<0.00016	<0.00016	<0.0002	<0.0002	<0.0002	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	0.0005	0.005
Trichlorofluoromethane	<0.00017	<0.00017	<0.00017	<0.00018	<0.00018	<0.00018	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00002	0.0002
Vinyl chloride	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	3.96	260

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

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

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

\* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “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 Wisconsin Administrative Code

VOCs via USEPA Method SW8260

NOTE – MW-1 generally duplicated TW-4

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

Volatile Organic Compound	Sample Location (Sample Date)						PAL <sup>1</sup>	ES <sup>2</sup>
	MW-2 (2/23/16)	TW-5 (11/13/14)	MW-3 <sup>D</sup> (1/27/15)	TW-6 (11/13/14)	MW-4 (1/27/15)	MW-4 (2/23/16)		
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.00058</b>	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.0024*	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.0038 (J)	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00028(J)	NL	NL
Carbon tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Chloroethane	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0025*	0.0006	0.006
Chloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	NL	NL
Dibromochloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0022*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00018*	<0.00016*	<0.00018*	<0.00016*	<0.00018*	<0.00018*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.015	0.075
Dichlorodifluoromethane	<0.00022	<0.0002	<0.00022	<0.0002	<0.00022	<0.00022	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	0.00027(J)	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.007	0.07
trans-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.00048	<0.00048	<0.00048	<0.00048	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.00073*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.14	0.7

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

Volatile Organic Compound	Sample Location (Sample Date)						PAL <sup>1</sup>	ES <sup>2</sup>
	MW-2 (2/23/16)	TW-5 (11/13/14)	MW-3 <sup>D</sup> (1/27/15)	TW-6 (11/13/14)	MW-4 (1/27/15)	MW-4 (2/23/16)		
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
Isopropyl benzene	<0.00014	<0.00014	<0.00014	0.00049(J)	<0.00014	0.0089	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0005	0.00068(J)	<0.0005	<0.0005	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0075	NL	NL
Styrene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	0.00002	0.0002
Tetrachloroethene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Toluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.04	0.2
1,1,2-Trichloroethane	<0.0002	<0.00016	<0.0002	<0.00016	<0.0002	<0.0002	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	0.0005	0.005
Trichlorofluoromethane	<0.00018	<0.00017	<0.00018	<0.00017	<0.00018	<0.00018	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005	0.0051	0.0022	<0.0005	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00002	0.0002
Vinyl chloride	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.0015	<0.0015	0.0012	<0.0015	3.96	260

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

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

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

\* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “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 Wisconsin Administrative Code

VOCs via USEPA Method SW8260

NOTE – MW-3 installed to duplicate TW-5; MW-4 installed to duplicate TW-6

<sup>D</sup> – MW-3 unable to be re-sampled after January 2015; damaged by snow removal operations

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

Volatile Organic Compound	Sample Location (Sample Date)					PAL <sup>1</sup>	ES <sup>2</sup>
	TW-2 (11/12/14)	MW-5 (1/27/15)	MW-5 (2/23/16)	MW-201 (3/30/15)	MW-201 (2/23/16)		
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.0024*	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	NL	NL
Carbon tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Chloroethane	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0025*	0.0006	0.006
Chloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	NL	NL
Dibromochloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0022*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00016*	<0.00018*	<0.00018*	<0.00018*	<0.00018*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.015	0.075
Dichlorodifluoromethane	<0.0002	<0.00022	<0.00022	<0.00022	<0.00022	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.007	0.07
trans-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.00048	<0.00048	<0.00048	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.00073*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.14	0.7

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

Volatile Organic Compound	Sample Location (Sample Date)					PAL <sup>1</sup>	ES <sup>2</sup>
	TW-2 (11/12/14)	MW-5 (1/27/15)	MW-5 (2/23/16)	MW-201 (3/30/15)	MW-201 (2/23/16)		
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
Isopropyl benzene	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Styrene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	0.00002	0.0002
Tetrachloroethene	<b>0.0026</b>	<b>0.0026</b>	<b>0.0083</b>	<0.0005	<0.0005	0.0005	0.005
Toluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.04	0.2
1,1,2-Trichloroethane	<0.00016	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	0.0005	0.005
Trichlorofluoromethane	<0.00017	<0.00018	<0.00018	<0.00018	<0.00018	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00002	0.0002
Vinyl chloride	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	3.96	260

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

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

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

\* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “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 Wisconsin Administrative Code

VOCs via USEPA Method SW8260

NOTE – MW-5 generally duplicated TW-2

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

Polynuclear Aromatic	Sample Location (Sample Date)						PAL <sup>1</sup>	ES <sup>2</sup>
	TW-1 (11/12/14)	TW-3 (11/13/14)	TW-4 (11/13/14)	MW-1 (1/27/15)	MW-1 (2/23/16)	MW-2 (1/27/15)		
Acenaphthene	0.000006 (J)	0.0000095 (J)	0.000026 (J)	<0.0000035	<0.0000044	<0.0000034	NL	NL
Acenaphthylene	<0.0000032	0.0000032 (J)	0.0000067 (J)	<0.000003	<0.0000044	<0.0000029	NL	NL
Anthracene	0.0000033 (J)	0.0000045 (J)	0.000015 (J)	<0.0000025	0.000009 (J)	<0.0000024	0.6	3
Benzo(a)anthracene	<0.0000034	0.000023 (J)	0.00003 (J)	<0.0000033	0.000011 (J)	<0.0000032	NL	NL
Benzo(a)pyrene	0.0000052 (J)	0.000015 (J)	<b>0.000025</b> (J)	<0.0000026	0.0000068 (J)	<0.0000025	0.00002	0.0002
Benzo(b)fluoranthene	0.000013 (J)	<b>0.000028</b> (J)	<b>0.000042</b> (J)	<0.000005	0.000013 (J)	0.0000088 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000078 (J)	0.000014 (J)	0.000024 (J)	0.000006	0.0000074 (J)	0.0000098 (J)	NL	NL
Benzo(k)fluoranthene	<0.000005	0.000011 (J)	0.000018 (J)	<0.0000048	0.0000055 (J)	<0.0000047	NL	NL
Chrysene	0.000016 (J)	<b>0.000032</b> (J)	<b>0.000056</b>	0.000011 (J)	0.000015 (J)	0.000018 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000035	<0.0000034	0.0000045 (J)	<0.0000033	<0.000005	<0.0000033	NL	NL
Fluoranthene	0.00003 (J)	0.000044 (J)	0.000096	0.000036 (J)	0.000042 (J)	0.000017 (J)	0.08	0.4
Fluorene	0.0000072 (J)	0.000006 (J)	0.000016 (J)	<0.0000029	0.0000049 (J)	<0.0000028	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0000053 (J)	0.000012 (J)	0.000018 (J)	<0.0000035	0.000006 (J)	<0.0000034	NL	NL
1-Methylnaphthalene	0.000016 (J)	0.000021 (J)	0.000032 (J)	0.000011 (J)	<0.0000028	<0.000006	NL	NL
2-Methylnaphthalene	0.000018 (J)	0.000023 (J)	0.000032 (J)	<0.0000082	<0.0000025	0.0000094 (J)	NL	NL
Naphthalene	0.0000088 (J)	0.000019 (J)	0.000019 (J)	0.000013 (J)	0.00002 (J)	0.000014 (J)	0.01	0.1
Phenanthrene	0.000036 (J)	0.000041 (J)	0.00012	0.000024 (J)	0.00002 (J)	0.000028 (J)	NL	NL
Pyrene	0.000036 (J)	0.000044 (J)	0.000096	0.000047 (J)	0.000051	0.00002 (J)	0.05	0.25

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

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

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

\* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “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 Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-1 generally duplicated TW-4

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

Polynuclear Aromatic	Sample Location (Sample Date)						PAL <sup>1</sup>	ES <sup>2</sup>
	MW-2 (2/23/16)	TW-5 (11/13/14)	MW-3 <sup>D</sup> (1/27/15)	TW-6 (11/13/14)	MW-4 (1/27/15)	MW-4 (2/23/16)		
Acenaphthene	<0.0000045	0.00076	0.0000043 (J)	0.00049	0.0000039 (J)	0.00056	NL	NL
Acenaphthylene	<0.0000045	0.00013	0.0000036 (J)	0.00012	0.000084	0.000073	NL	NL
Anthracene	<0.0000037	0.00056	<0.0000023	0.00006	0.00006	0.00011	0.6	3
Benzo(a)anthracene	<0.0000047	0.00069	<0.0000031	0.000013 (J)	<0.0000032	0.0000082 (J)	NL	NL
Benzo(a)pyrene	<0.000004	<b>0.0006</b>	0.000011 (J)	0.0000053 (J)	0.000017 (J)	0.000006 (J)	0.00002	0.0002
Benzo(b)fluoranthene	<0.0000048	<b>0.00077</b>	0.00002 (J)	0.0000093 (J)	<b>0.000043 (J)</b>	0.000014 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000042 (J)	0.0004	0.000016 (J)	0.0000071 (J)	0.000025 (J)	0.0000081 (J)	NL	NL
Benzo(k)fluoranthene	<0.0000051	0.00029	0.00001 (J)	<0.000005	0.000021 (J)	<0.0000051	NL	NL
Chrysene	0.0000066 (J)	<b>0.00084</b>	<b>0.000028 (J)</b>	<b>0.000021 (J)</b>	<b>0.000042 (J)</b>	0.000017 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000051	0.000091	<0.0000032	<0.0000035	<0.0000033	<0.0000051	NL	NL
Fluoranthene	0.000014 (J)	0.0024	0.000041 (J)	0.00004 (J)	0.000049	0.00003 (J)	0.08	0.4
Fluorene	<0.0000037	0.0011	0.0000035 (J)	0.00061	0.000031 (J)	0.00051	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.0000033	0.0003	0.0000081 (J)	0.0000044 (J)	0.000017 (J)	0.0000056 (J)	NL	NL
1-Methylnaphthalene	<0.0000028	0.002	0.0000091 (J)	0.0087	0.000076	0.0041	NL	NL
2-Methylnaphthalene	0.000004 (J)	0.00017	0.0000084 (J)	0.0065	0.000066	0.000037 (J)	NL	NL
Naphthalene	0.0000044 (J)	0.00016	<0.0000056	0.0022	0.00027	0.00017	0.01	0.1
Phenanthrene	0.0000096 (J)	0.0021	0.000043 (J)	0.00062	0.000033 (J)	0.00029	NL	NL
Pyrene	0.00002 (J)	0.0025	0.000059	0.00006	0.0001	0.000081	0.05	0.25

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

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

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

\* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “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 Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-3 installed to duplicate TW-5; MW-4 installed to duplicate TW-6

<sup>D</sup> – MW-3 unable to be re-sampled after January 2015; damaged by snow removal operations

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

Polynuclear Aromatic	Sample Location (Sample Date)					Preventive Action Limit <sup>1</sup>	Enforcement Standard <sup>2</sup>
	TW-2 (11/12/14)	MW-5 (1/27/15)	MW-5 (2/23/16)	MW-201 (3/30/15)	MW-201 (2/23/16)		
Acenaphthene	0.0000045 (J)	<0.0000034	<0.0000044	0.0000091 (J)	<0.0000045	NL	NL
Acenaphthylene	<0.0000032	<0.0000029	<0.0000044	0.0000052 (J)	<0.0000045	NL	NL
Anthracene	<0.0000026	<0.0000024	<0.0000036	0.000016 (J)	<0.0000037	0.6	3
Benzo(a)anthracene	<0.0000035	<0.0000031	0.000009 (J)	0.000023 (J)	0.000013 (J)	NL	NL
Benzo(a)pyrene	<0.0000028	<0.0000025	0.0000054 (J)	0.000016 (J)	0.0000078 (J)	0.00002	0.0002
Benzo(b)fluoranthene	<0.0000053	0.000011 (J)	0.0000067 (J)	<b>0.000029 (J)</b>	0.000011 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000059 (J)	0.0000083 (J)	0.0000062 (J)	0.000022 (J)	0.0000075 (J)	NL	NL
Benzo(k)fluoranthene	<0.0000051	0.0000063 (J)	<0.000005	0.0000096 (J)	<0.0000051	NL	NL
Chrysene	0.000012 (J)	0.000015 (J)	0.0000054 (J)	<b>0.000042 (J)</b>	0.000016 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000036	<0.0000032	<0.000005	<0.0000051	<0.0000051	NL	NL
Fluoranthene	0.0000089 (J)	0.00002 (J)	0.000014 (J)	0.000061	0.000024 (J)	0.08	0.4
Fluorene	0.0000099 (J)	<0.0000028	<0.0000036	0.000017 (J)	0.0000044 (J)	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.0000038	<0.0000034	<0.0000032	0.000014 (J)	0.0000045 (J)	NL	NL
1-Methylnaphthalene	0.000015 (J)	<0.0000059	<0.0000028	0.00003 (J)	0.0000052 (J)	NL	NL
2-Methylnaphthalene	0.000016 (J)	<0.0000079	0.0000025 (J)	0.000076	0.0000078	NL	NL
Naphthalene	0.0000068 (J)	<0.0000057	0.000016 (J)	0.000051	0.0000062 (J)	0.01	0.1
Phenanthrene	0.000035 (J)	0.000015 (J)	0.000011 (J)	0.00011	0.000024 (J)	NL	NL
Pyrene	0.000012 (J)	0.000025 (J)	0.000019 (J)	0.000074	0.00003 (J)	0.05	0.25

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

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

**Bold** – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

\* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “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 Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-5 generally duplicated TW-2



**Table A.2.A. Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-1 (8-10)	GP-2 (8-10)	GP-3 (8-10)	GP-4 (2-4)	GP-4 (8-10)	GP-5 (14-15)			
Benzene	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	342	679
Bromochloromethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	216	906
Bromodichloromethane	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0699*	<0.0699*	<0.0713*	<0.0699*	<0.0699*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	108	108
sec-Butylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	145	145
tert-Butylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	183	183
Carbon tetrachloride	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.1358	370	761
Chloroethane	<0.067	<0.067	<0.067	<0.0684	<0.067	<0.067	0.2266	NL	NL
Chloroform	<0.0464*	<0.0464*	<0.0464*	<0.0474*	<0.0464*	<0.0464*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	907	907
4-Chlorotoluene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	253	253
Dibromochloromethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0912*	<0.0912*	<0.0931*	<0.0912*	<0.0912*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	3.0863	126	530
1,1-Dichloroethane	<0.025	<b>0.125</b>	<0.025	<0.0255	<0.025	<0.025	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	191	191
1,1-Dichloropropene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.05*	<0.05*	<0.051*	<0.05*	<0.05*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	2,260	2,260
Ethylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	1.63	7.19
Isopropylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	NL	NL

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-1 (8-10)	GP-2 (8-10)	GP-3 (8-10)	GP-4 (2-4)	GP-4 (8-10)	GP-5 (14-15)			
p-Isopropyltoluene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	162	162
Methylene chloride	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.027	63.8	282
Naphthalene	<0.04	<0.04	<0.04	<0.0409	<0.04	<0.04	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	264	264
Styrene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<0.025*	<0.025*	<b>0.81</b>	<0.025*	<0.025*	0.0045	33	145
Toluene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0476	<0.0476	<0.0485	<0.0476	<0.0476	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<0.025	<0.0255	<0.025	<0.025		182	182
Vinyl chloride	<0.025*	<0.025*	<0.025*	<0.0255*	<0.025*	<0.025*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.075	<0.075	<0.0765	<0.075	<0.075	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on November 12-13, 2014

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-6 (14-15)	GP-7 (14-15)	GP-8 (2-4)	GP-9 (2-4)	GP-10 (2-4)	GP-11 (2-4)			
Benzene	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<b>0.114</b>	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	342	679
Bromochloromethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	216	906
Bromodichloromethane	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0699*	<0.0699*	<0.0768*	<0.0699*	<0.0721*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	0.036 (J)	NL	108	108
sec-Butylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	145	145
tert-Butylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	183	183
Carbon tetrachloride	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.1358	370	761
Chloroethane	<0.067	<0.067	<0.067	<0.0736	<0.067	<0.0691	0.2266	NL	NL
Chloroform	<0.0464*	<0.0464*	<0.0464*	<0.051*	<0.0464*	<0.0479*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	907	907
4-Chlorotoluene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	253	253
Dibromochloromethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0912*	<0.0912*	<0.1*	<0.0912	<0.0941*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	191	191
1,1-Dichloropropene	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05	<0.05	<0.05	<0.055	<0.05	<0.0516	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	2,260	2,260
Ethylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-6 (14-15)	GP-7 (14-15)	GP-8 (2-4)	GP-9 (2-4)	GP-10 (2-4)	GP-11 (2-4)			
Isopropylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	162	162
Methylene chloride	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.025	<0.025	<0.0275*	<0.025	<0.0258	0.027	63.8	282
Naphthalene	<0.04	<0.04	0.0583	<0.044	<0.04	0.244	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	264	264
Styrene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0045	33	145
Toluene	<0.025	<0.025	<0.025	<0.0275	<0.025	0.0336 (J)	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0476	<0.0476	<0.0523	<0.0476	<0.049	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	0.0463 (J)	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<0.025	<0.0275	<0.025	<0.0258		182	182
Vinyl chloride	<0.025*	<0.025*	<0.025*	<0.0275*	<0.025*	<0.0258*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.075	<0.075	<0.0824	<0.075	0.0536 (J)	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on November 12-13, 2014

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-11R (8-10)	GP-12 (8-10)	GP-13 (4-6)	GP-14 (2-4)	GP-15 (4-6)	GP-103 (12-14)			
Benzene	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	342	679
Bromochloromethane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	216	906
Bromodichloromethane	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0713*	<0.406*	<0.0699*	<0.0744*	<0.117*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.0255	2.42	<0.025	<0.0266	<0.0417	NL	108	108
sec-Butylbenzene	<0.025	<0.0255	2.57	<0.025	<0.0266	<0.0417	NL	145	145
tert-Butylbenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	183	183
Carbon tetrachloride	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.1358	370	761
Chloroethane	<0.067	<0.0684	<0.39*	<0.067	<0.0713	<0.112	0.2266	NL	NL
Chloroform	<0.0464*	<0.0474*	<0.27*	<0.0464*	<0.0494*	<0.0774*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	907	907
4-Chlorotoluene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	253	253
Dibromochloromethane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0931*	<0.53*	<0.0912*	<0.0971*	<0.152*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	191	191
1,1-Dichloropropene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.051*	<0.29*	<0.05*	<0.0532*	<0.0834*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	2,260	2,260
Ethylbenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-11R (8-10)	GP-12 (8-10)	GP-13 (4-6)	GP-14 (2-4)	GP-15 (4-6)	GP-103 (12-14)			
Isopropylbenzene	<0.025	<0.0255	0.557	<0.025	<0.0266	<0.0417	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.0255	1.81	<0.025	<0.0266	<0.0417	NL	162	162
Methylene chloride	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.027	63.8	282
Naphthalene	<0.04	<0.0409	<b>8.08</b>	<0.04	<0.0426	<0.0667	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.0255	0.946	<0.025	<0.0266	<0.0417	NL	264	264
Styrene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0045	33	145
Toluene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0485	<0.276	<0.0476	<0.0506	<0.0793	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.0255	<0.145*	<0.025	<0.0266	<0.0417	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.0255	8.05	<0.025	<0.0266	<0.0417	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.0255	<0.145	<0.025	<0.0266	<0.0417		182	182
Vinyl chloride	<0.025*	<0.0255*	<0.145*	<0.025*	<0.0266*	<0.0417*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.0765	0.436 (J)	<0.075	<0.0798	<0.125	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on November 12-13, 2014 or January 6, 2015

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-104 (2-4)	GP-105 (2-4)	GP-106 (2-4)	GP-107 (2-4)	GP-108 (2-4)	GP-109 (8-10)			
Benzene	<0.0263*	<0.026*	<b>0.0998</b>	<0.026*	<b>0.154</b>	<0.025*	0.0051	1.6	7.07
Bromobenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	342	679
Bromochloromethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	216	906
Bromodichloromethane	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0003	0.418	1.83
Bromoform	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0023	25.4	113
Bromomethane	<0.0736*	<0.0728*	<0.0721*	<0.0728*	<0.0699*	<0.0699*	0.0051	9.6	43
n-Butylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	108	108
sec-Butylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	145	145
tert-Butylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	183	183
Carbon tetrachloride	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0039	0.916	4.03
Chlorobenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.1358	370	761
Chloroethane	<0.0705	<0.0698	<0.0691	<0.0698	<0.067	<0.067	0.2266	NL	NL
Chloroform	<0.0489*	<0.0484*	<0.0479*	<0.0484*	<0.0464*	<0.0464*	0.0033	0.454	1.98
Chloromethane	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0155	159	669
2-Chlorotoluene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	907	907
4-Chlorotoluene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	253	253
Dibromochloromethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.096*	<0.095*	<0.0941*	<0.095*	<0.0912*	<0.0912*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0000282	0.05	0.221
Dibromomethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	34	143
1,2-Dichlorobenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	1.168	376	376
1,3-Dichlorobenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	1.1528	297	297
1,4-Dichlorobenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.144	3.74	16.4
Dichlorodifluoromethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	3.0863	126	530
1,1-Dichloroethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.04834	5.06	22.2
1,2-Dichloroethane	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.0626	1,560	1,850
1,2-Dichloropropane	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	1,490	1,490
2,2-Dichloropropane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	191	191
1,1-Dichloropropene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.0526*	<0.052*	<0.0516*	<0.052*	<0.05*	<0.05*	0.0003	2,720	2,720
Diisopropyl ether	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	2,260	2,260
Ethylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-104 (2-4)	GP-105 (2-4)	GP-106 (2-4)	GP-107 (2-4)	GP-108 (2-4)	GP-109 (8-10)			
Isopropylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	NL	NL
p-Isopropyltoluene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	162	162
Methylene chloride	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.027	63.8	282
Naphthalene	<0.0422	0.142 (J)	<0.0413	<0.0417	0.0888 (J)	<0.04	0.6582	5.52	24.1
n-Propylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	264	264
Styrene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0002	0.81	3.6
Tetrachloroethene	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0045	33	145
Toluene	<0.0263	0.0497 (J)	0.0293	<0.026	0.0354 (J)	<0.025	1.1072	818	818
1,2,3-Trichlorobenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0501	<0.0495	<0.049	<0.0495	<0.0476	<0.0476	0.408	24	113
1,1,1-Trichloroethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.1402	640	640
1,1,2-Trichloroethane	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0032	1.59	7.01
Trichloroethene	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.0263	0.0827	<0.0258	<0.026	0.0299 (J)	<0.025	1.3821	219	219
1,3,5-Trimethylbenzene	<0.0263	<0.026	<0.0258	<0.026	<0.025	<0.025		182	182
Vinyl chloride	<0.0263*	<0.026*	<0.0258*	<0.026*	<0.025*	<0.025*	0.0001	0.067	2.08
Xylenes (total)	<0.0786	0.174	<0.0773	<0.0781	0.0333 (J)	<0.075	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on January 6, 2015



**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-110 (8-10)	GP-111 (8-10)	GP-112 (2-4)	GP-113 (2-4)	GP-114 (2-4)	GP-115 (2-4)			
Benzene	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	342	679
Bromochloromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	216	906
Bromodichloromethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0699*	<0.0699*	<0.0699*	<0.0699*	<0.0785*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	108	108
sec-Butylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	145	145
tert-Butylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	183	183
Carbon tetrachloride	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.1358	370	761
Chloroethane	<0.067	<0.067	<0.067	<0.067	<0.067	<0.0753	0.2266	NL	NL
Chloroform	<0.0464*	<0.0464*	<0.0464*	<0.0464*	<0.0464*	<0.0522*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	907	907
4-Chlorotoluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	253	253
Dibromochloromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0912*	<0.0912*	<0.0912*	<0.0912*	<0.103*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	1.1528	297	297
1,4-Dichlorobenzene	0.0288 (J)	<0.025	<0.025	<0.025	<0.025	<0.0281	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	191	191
1,1-Dichloropropene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.05*	<0.05*	<0.05*	<0.05*	<0.0562*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	2,260	2,260
Ethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-110 (8-10)	GP-111 (8-10)	GP-112 (2-4)	GP-113 (2-4)	GP-114 (2-4)	GP-115 (2-4)			
Isopropylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	162	162
Methylene chloride	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281*	0.027	63.8	282
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.045	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	264	264
Styrene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<0.025*	<b>0.0475 (J)</b>	<0.025*	<b>3.86</b>	<b>2.79</b>	0.0045	33	145
Toluene	0.0296 (J)	<0.025	<0.025	<0.025	<0.025	<0.0281	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0534	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.025*	<0.025*	<0.025*	<b>0.0751</b>	<0.0281*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0281		182	182
Vinyl chloride	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.0281*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.075	<0.075	<0.075	<0.075	<0.0843	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on January 6, 2015

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-115 (8-10)	GP-201 (2-4)	GP-202 (2-4)	GP-207 (2-4)	GP-207 (8-10)	GP-208 (2-4)			
Benzene	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0051	1.6	7.07
Bromobenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	342	679
Bromochloromethane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	216	906
Bromodichloromethane	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0003	0.418	1.83
Bromoform	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0023	25.4	113
Bromomethane	<0.0804*	<0.0699*	<0.35*	<0.0699*	<0.0699*	<0.0699*	0.0051	9.6	43
n-Butylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	108	108
sec-Butylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	145	145
tert-Butylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	183	183
Carbon tetrachloride	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0039	0.916	4.03
Chlorobenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	0.1358	370	761
Chloroethane	<0.077	<0.067	<0.335	<0.067	<0.067	<0.067	0.2266	NL	NL
Chloroform	<0.0534*	<0.0464*	<0.232*	<0.0464*	<0.0464*	<0.0464*	0.0033	0.454	1.98
Chloromethane	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0155	159	669
2-Chlorotoluene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	907	907
4-Chlorotoluene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	253	253
Dibromochloromethane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.105*	<0.0912*	<0.456*	<0.0912*	<0.0912*	<0.0912*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0000282	0.05	0.221
Dibromomethane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	34	143
1,2-Dichlorobenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	1.168	376	376
1,3-Dichlorobenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	1.1528	297	297
1,4-Dichlorobenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	0.0349 (J)	0.144	3.74	16.4
Dichlorodifluoromethane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	3.0863	126	530
1,1-Dichloroethane	<0.0287	<0.025	<0.125*	<0.025	<0.025	<0.025	0.04834	5.06	22.2
1,2-Dichloroethane	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.0287	<0.025	<0.125*	<0.025	<0.025	<0.025	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.0287	<0.025	<0.125*	<0.025	<0.025	<0.025	0.0626	1,560	1,850
1,2-Dichloropropane	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	1,490	1,490
2,2-Dichloropropane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	191	191
1,1-Dichloropropene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.0574*	<0.05*	<0.25*	<0.05*	<0.05*	<0.05*	0.0003	2,720	2,720
Diisopropyl ether	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	2,260	2,260
Ethylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-115 (8-10)	GP-201 (2-4)	GP-202 (2-4)	GP-207 (2-4)	GP-207 (8-10)	GP-208 (2-4)			
Isopropylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	NL	NL
p-Isopropyltoluene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	162	162
Methylene chloride	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.0287	<0.025	<0.125*	<0.025	<0.025	<0.025	0.027	63.8	282
Naphthalene	<0.046	<0.04	<0.2	<0.04	<0.04	<0.04	0.6582	5.52	24.1
n-Propylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	264	264
Styrene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.0287	<0.025	<0.125*	<0.025	<0.025	<0.025	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0002	0.81	3.6
Tetrachloroethene	<0.0287*	<0.025*	<b>28.4</b>	<0.025*	<0.025*	<0.025*	0.0045	33	145
Toluene	0.0372 (J)	<0.025	<0.125	<0.025	<0.025	0.0484 (J)	1.1072	818	818
1,2,3-Trichlorobenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0547	<0.0476	<0.238	<0.0476	<0.0476	<0.0476	0.408	24	113
1,1,1-Trichloroethane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	0.1402	640	640
1,1,2-Trichloroethane	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0032	1.59	7.01
Trichloroethene	<0.0287*	<0.025*	<b>0.334 (J)</b>	<0.025*	<0.025*	<0.025*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.0287	<0.025	<0.125*	<0.025	<0.025	<0.025	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025	1.3821	219	219
1,3,5-Trimethylbenzene	<0.0287	<0.025	<0.125	<0.025	<0.025	<0.025		182	182
Vinyl chloride	<0.0287*	<0.025*	<0.125*	<0.025*	<0.025*	<0.025*	0.0001	0.067	2.08
Xylenes (total)	<0.0862	<0.075	<0.375	<0.075	<0.075	<0.075	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on January 6 or March 11, 2015

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-208 (8-10)	GP-209 (2-4)	GP-209 (8-10)	GP-212 (2-4)	GP-301 (2-4)	GP-302 (2-4)			
Benzene	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	342	679
Bromochloromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	216	906
Bromodichloromethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0699*	<0.0699*	<0.0699*	<0.0699*	<0.0699*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	108	108
sec-Butylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	145	145
tert-Butylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	183	183
Carbon tetrachloride	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.1358	370	761
Chloroethane	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	0.2266	NL	NL
Chloroform	<0.0464*	<0.0464*	<0.0464*	<0.0464*	<0.0464*	<0.0464*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	907	907
4-Chlorotoluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	253	253
Dibromochloromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0912*	<0.0912*	<0.0912*	<0.0912*	<0.0912*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	191	191
1,1-Dichloropropene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.05*	<0.05*	<0.05*	<0.05*	<0.05*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	2,260	2,260
Ethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-208 (8-10)	GP-209 (2-4)	GP-209 (8-10)	GP-212 (2-4)	GP-301 (2-4)	GP-302 (2-4)			
Isopropylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	162	162
Methylene chloride	<0.025*	<b>0.041 (J)</b>	<0.025*	<0.025*	<0.025*	<0.025*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	63.8	282
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04	0.262 (J)	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	264	264
Styrene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0045	33	145
Toluene	0.0429 (J)	<0.025	0.0805	<0.025	<0.025	<0.025	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025		182	182
Vinyl chloride	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	<0.025*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on March 11, 2015 or February 19, 2016

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-303 (2-4)	GP-304 (2-4)	GP-305 (2-4)	GP-306 (8-10)	GP-307 (8-10)	GP-308 (2-4)			
Benzene	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	342	679
Bromochloromethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	216	906
Bromodichloromethane	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0706*	<0.0699*	<0.0699*	<0.076*	<0.0736*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	108	108
sec-Butylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	145	145
tert-Butylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	183	183
Carbon tetrachloride	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.1358	370	761
Chloroethane	<0.067	<0.0677	<0.067	<0.067	<0.0728	<0.0705	0.2266	NL	NL
Chloroform	<0.0464*	<0.0469*	<0.0464*	<0.0464*	<0.0505*	<0.0489*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	907	907
4-Chlorotoluene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	253	253
Dibromochloromethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0922*	<0.0912*	<0.0912*	<0.0992*	<0.096*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	191	191
1,1-Dichloropropene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.0506*	<0.05*	<0.05*	<0.0544*	<0.0526*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	2,260	2,260
Ethylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-303 (2-4)	GP-304 (2-4)	GP-305 (2-4)	GP-306 (8-10)	GP-307 (8-10)	GP-308 (2-4)			
Isopropylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.0253	0.0294 (J)	<0.025	<0.0272	<0.0263	NL	162	162
Methylene chloride	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.0253	<0.025	<0.025	<0.0272*	<0.0263	0.027	63.8	282
Naphthalene	<0.04	<0.0404	<0.04	<0.04	<0.0435	<0.0422	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	264	264
Styrene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<b>0.371</b>	0.0045	33	145
Toluene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.048	<0.0476	<0.0476	<0.0517	<0.0501	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.0253	<0.025	<0.025	<0.0272	<0.0263		182	182
Vinyl chloride	<0.025*	<0.0253*	<0.025*	<0.025*	<0.0272*	<0.0263*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.0758	<0.075	<0.075	<0.0815	<0.0789	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on February 19, 2016



**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-308 (8-10)	GP-309 (2-4)	GP-309 (8-10)	GP-310 (2-4)	GP-310 (8-10)	GP-311 (2-4)			
Benzene	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	342	679
Bromochloromethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	216	906
Bromodichloromethane	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0721*	<0.0699*	<0.0699*	<0.0699*	<0.0744*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	108	108
sec-Butylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	145	145
tert-Butylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	183	183
Carbon tetrachloride	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.1358	370	761
Chloroethane	<0.067	<0.0691	<0.067	<0.067	<0.067	<0.0713	0.2266	NL	NL
Chloroform	<0.0464*	<0.0479*	<0.0464*	<0.0464*	<0.0464*	<0.0494*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	907	907
4-Chlorotoluene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	253	253
Dibromochloromethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0941*	<0.0912*	<0.0912*	<0.0912*	<0.0971*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	1.1528	297	297
1,4-Dichlorobenzene	<0.025	0.0337 (J)	<0.025	<0.025	<0.025	<0.0266	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	191	191
1,1-Dichloropropene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.0516*	<0.05*	<0.05*	<0.05*	<0.0532*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	2,260	2,260
Ethylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-308 (8-10)	GP-309 (2-4)	GP-309 (8-10)	GP-310 (2-4)	GP-310 (8-10)	GP-311 (2-4)			
Isopropylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	162	162
Methylene chloride	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.027	63.8	282
Naphthalene	<0.04	<0.0413	<0.04	<0.04	<0.04	<0.0426	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	264	264
Styrene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<b>0.108</b>	<b>0.0341 (J)</b>	<b>0.046 (J)</b>	<0.025*	<b>1.89</b>	0.0045	33	145
Toluene	<0.025	0.0351 (J)	<0.025	<0.025	<0.025	<0.0266	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.049	<0.0476	<0.0476	<0.0476	<0.0506	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.0258	<0.025	<0.025	<0.025	<0.0266		182	182
Vinyl chloride	<0.025*	<0.0258*	<0.025*	<0.025*	<0.025*	<0.0266*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.0773	<0.075	<0.075	<0.075	<0.0798	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on February 19, 2016

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-311 (8-10)	GP-401 (0-2)	GP-401 (6-8)	GP-402 (0-2)	GP-403 (0-2)	GP-403 (6-7)			
Benzene	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0051	1.6	7.07
Bromobenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	342	679
Bromochloromethane	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	216	906
Bromodichloromethane	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0003	0.418	1.83
Bromoform	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0023	25.4	113
Bromomethane	<0.0706*	<0.0699*	<0.0699*	<1.4*	<0.0699*	<0.0699*	0.0051	9.6	43
n-Butylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	108	108
sec-Butylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	145	145
tert-Butylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	183	183
Carbon tetrachloride	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0039	0.916	4.03
Chlorobenzene	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.1358	370	761
Chloroethane	<0.0677	<0.067	<0.067	<1.34*	<0.067	<0.067	0.2266	NL	NL
Chloroform	<0.0469*	<0.0464*	<0.0464*	<0.929*	<0.0464*	<0.0464*	0.0033	0.454	1.98
Chloromethane	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0155	159	669
2-Chlorotoluene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	907	907
4-Chlorotoluene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	253	253
Dibromochloromethane	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0922*	<0.0912*	<0.0912*	<1.82*	<0.0912*	<0.0912*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0000282	0.05	0.221
Dibromomethane	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	34	143
1,2-Dichlorobenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	1.168	376	376
1,3-Dichlorobenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	1.1528	297	297
1,4-Dichlorobenzene	0.0372	<0.025	<0.025	<0.5*	<0.025	<0.025	0.144	3.74	16.4
Dichlorodifluoromethane	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	3.0863	126	530
1,1-Dichloroethane	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.04834	5.06	22.2
1,2-Dichloroethane	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.0626	1,560	1,850
1,2-Dichloropropane	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	1,490	1,490
2,2-Dichloropropane	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	191	191
1,1-Dichloropropene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.0506*	<0.05*	<0.05*	<0.1*	<0.05*	<0.05*	0.0003	2,720	2,720
Diisopropyl ether	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	2,260	2,260
Ethylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-311 (8-10)	GP-401 (0-2)	GP-401 (6-8)	GP-402 (0-2)	GP-403 (0-2)	GP-403 (6-7)			
Isopropylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	NL	NL
p-Isopropyltoluene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	162	162
Methylene chloride	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.027	63.8	282
Naphthalene	<0.0404	<0.04	<0.04	<0.801*	0.0535 (J)	<0.04	0.6582	5.52	24.1
n-Propylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	264	264
Styrene	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0002	0.81	3.6
Tetrachloroethene	<b>0.0284</b>	<b>0.0446</b>	<b>0.0934 (J)</b>	<b>142</b>	<b>1.75</b>	<b>0.0994</b>	0.0045	33	145
Toluene	0.0312	<0.025	<0.025	<0.5	0.0711	<0.025	1.1072	818	818
1,2,3-Trichlorobenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	NL	62.6	934
1,2,4-Trichlorobenzene	<0.048	<0.0476	<0.0476	<0.951*	<0.0476	<0.0476	0.408	24	113
1,1,1-Trichloroethane	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.1402	640	640
1,1,2-Trichloroethane	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0032	1.59	7.01
Trichloroethene	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.0253	<0.025	<0.025	<0.5*	<0.025	<0.025	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025	1.3821	219	219
1,3,5-Trimethylbenzene	<0.0253	<0.025	<0.025	<0.5	<0.025	<0.025		182	182
Vinyl chloride	<0.0253*	<0.025*	<0.025*	<0.5*	<0.025*	<0.025*	0.0001	0.067	2.08
Xylenes (total)	<0.0758	<0.075	<0.075	<1.5	0.0397 (J)	<0.075	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on February 19 or September 8, 2016

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)				GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-404 (2-4)	GP-404 (6-8)	GP-405 (0-2)	GP-405 (6-8)			
Benzene	<0.025*	<0.025*	<12.5*	<0.625*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.025	<12.5	<0.625	NL	342	679
Bromochloromethane	<0.025	<0.025	<12.5	<0.625	NL	216	906
Bromodichloromethane	<0.025*	<0.025*	<12.5*	<0.625*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.025*	<12.5*	<0.625*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0699*	<35*	<1.75*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.025	<12.5	<0.625	NL	108	108
sec-Butylbenzene	<0.025	<0.025	<12.5	<0.625	NL	145	145
tert-Butylbenzene	<0.025	<0.025	<12.5	<0.625	NL	183	183
Carbon tetrachloride	<0.025*	<0.025*	<12.5*	<0.625*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.025	<12.5*	<0.625*	0.1358	370	761
Chloroethane	<0.067	<0.067	<33.5*	<1.68*	0.2266	NL	NL
Chloroform	<0.0464*	<0.0464*	<23.2*	<1.16*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.025*	<12.5*	<0.625*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.025	<12.5	<0.625	NL	907	907
4-Chlorotoluene	<0.025	<0.025	<12.5	<0.625	NL	253	253
Dibromochloromethane	<0.025	<0.025	<12.5*	<0.625*	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0912*	<45.6*	<2.28*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.025*	<12.5*	<0.625*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.025	<12.5	<0.625	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.025	<12.5*	<0.625	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.025	<12.5*	<0.625	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.025	<12.5*	<0.625*	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.025	<12.5*	<0.625	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.025	<12.5*	<0.625*	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.025*	<12.5*	<0.625*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.025*	<12.5*	<0.625*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.025	<12.5*	<0.625*	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.025	<12.5*	<0.625*	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.025*	<12.5*	<0.625*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.025	<12.5	<0.625	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.025	<12.5	<0.625	NL	191	191
1,1-Dichloropropene	<0.025	<0.025	<12.5	<0.625	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.05*	<25*	<1.25*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.025	<12.5	<0.625	NL	2,260	2,260
Ethylbenzene	<0.025	<0.025	<12.5*	<0.625	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.025	<12.5	<0.625	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)				GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-404 (2-4)	GP-404 (6-8)	GP-405 (0-2)	GP-405 (6-8)			
Isopropylbenzene	<0.025	<0.025	<12.5	<0.625	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.025	<12.5	<0.625	NL	162	162
Methylene chloride	<0.025*	<0.025*	<12.5*	<0.625*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.025	<12.5*	<0.625*	0.027	63.8	282
Naphthalene	<0.04	<0.04	<20*	<1*	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.025	<12.5	<0.625	NL	264	264
Styrene	<0.025	<0.025	<12.5*	<0.625*	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.025	<12.5*	<0.625*	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.025*	<12.5*	<0.625*	0.0002	0.81	3.6
Tetrachloroethene	<0.025*	<b>0.0303 (J)</b>	<b><u>3,750</u></b>	<b><u>157</u></b>	0.0045	33	145
Toluene	<0.025	<0.025	<12.5*	<0.625	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.025	<12.5	<0.625	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0476	<23.8*	<1.19*	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.025	<12.5*	<0.625*	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.025*	<12.5*	<0.625*	0.0032	1.59	7.01
Trichloroethene	<0.025*	<0.025*	<12.5*	<0.625*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.025	<12.5*	<0.625	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.025	<12.5*	<0.625*	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.025	<12.5*	<0.625	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<12.5*	<0.625		182	182
Vinyl chloride	<0.025*	<0.025*	<12.5*	<0.625*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.075	<62.5*	<1.875	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on September 8, 2016

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)				GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-406 (2-4)	GP-406 (6-8)	GP-407 (0-2)	GP-407 (6-8)			
Benzene	<0.025*	<0.025*	<1*	<0.1*	0.0051	1.6	7.07
Bromobenzene	<0.025	<0.025	<1	<0.1	NL	342	679
Bromochloromethane	<0.025	<0.025	<1	<0.1	NL	216	906
Bromodichloromethane	<0.025*	<0.025*	<1*	<0.1*	0.0003	0.418	1.83
Bromoform	<0.025*	<0.025*	<1*	<0.1*	0.0023	25.4	113
Bromomethane	<0.0699*	<0.0699*	<2.8*	<0.28*	0.0051	9.6	43
n-Butylbenzene	<0.025	<0.025	<1	<0.1	NL	108	108
sec-Butylbenzene	<0.025	<0.025	<1	<0.1	NL	145	145
tert-Butylbenzene	<0.025	<0.025	<1	<0.1	NL	183	183
Carbon tetrachloride	<0.025*	<0.025*	<1*	<0.1*	0.0039	0.916	4.03
Chlorobenzene	<0.025	<0.025	<1*	<0.1	0.1358	370	761
Chloroethane	<0.067	<0.067	<2.68*	<0.268*	0.2266	NL	NL
Chloroform	<0.0464*	<0.0464*	<1.86*	<0.186*	0.0033	0.454	1.98
Chloromethane	<0.025*	<0.025*	<1*	<0.1*	0.0155	159	669
2-Chlorotoluene	<0.025	<0.025	<1	<0.1	NL	907	907
4-Chlorotoluene	<0.025	<0.025	<1	<0.1	NL	253	253
Dibromochloromethane	<0.025	<0.025	<1*	<0.1	0.32	8.28	38.9
1,2-Dibromo-3-chloropropane	<0.0912*	<0.0912*	<3.65*	<0.365*	0.0002	0.008	0.092
1,2-Dibromoethane (EDB)	<0.025*	<0.025*	<1*	<0.1*	0.0000282	0.05	0.221
Dibromomethane	<0.025	<0.025	<1	<0.1	NL	34	143
1,2-Dichlorobenzene	<0.025	<0.025	<1	<0.1	1.168	376	376
1,3-Dichlorobenzene	<0.025	<0.025	<1	<0.1	1.1528	297	297
1,4-Dichlorobenzene	<0.025	<0.025	<1*	<0.1	0.144	3.74	16.4
Dichlorodifluoromethane	<0.025	<0.025	<1	<0.1	3.0863	126	530
1,1-Dichloroethane	<0.025	<0.025	<1*	<0.1*	0.04834	5.06	22.2
1,2-Dichloroethane	<0.025*	<0.025*	<1*	<0.1*	0.0028	0.652	2.87
1,1-Dichloroethene	<0.025*	<0.025*	<1*	<0.1*	0.005	320	1,190
cis-1,2-Dichloroethene	<0.025	<0.025	<1*	<0.1*	0.0412	156	2,340
trans-1,2-Dichloroethene	<0.025	<0.025	<1*	<0.1*	0.0626	1,560	1,850
1,2-Dichloropropane	<0.025*	<0.025*	<1*	<0.1*	0.0033	0.406	1.78
1,3-Dichloropropane	<0.025	<0.025	<1	<0.1	NL	1,490	1,490
2,2-Dichloropropane	<0.025	<0.025	<1	<0.1	NL	191	191
1,1-Dichloropropene	<0.025	<0.025	<1	<0.1	NL	NL	NL
1,3-Dichloropropene (c&t)	<0.05*	<0.05*	<2*	<0.2*	0.0003	2,720	2,720
Diisopropyl ether	<0.025	<0.025	<1	<0.1	NL	2,260	2,260
Ethylbenzene	<0.025	<0.025	<1	<0.1	1.57	8.02	35.4
Hexachloro-1,3-butadiene	<0.025	<0.025	<1	<0.1	NL	1.63	7.19

**Table A.2.A (Continued). Soil Analytical Results Table for Volatile Organic Compounds (mg/kg)**

Volatile Organic Compound	Sample Location (Sample Depth)				GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-406 (2-4)	GP-406 (6-8)	GP-407 (0-2)	GP-407 (6-8)			
Isopropylbenzene	<0.025	<0.025	<1	<0.1	NL	NL	NL
p-Isopropyltoluene	<0.025	<0.025	<1	<0.1	NL	162	162
Methylene chloride	<0.025*	<0.025*	<1*	<0.1*	0.0026	61.8	1,150
Methyl tertiary-butyl ether	<0.025	<0.025	<1*	<0.1*	0.027	63.8	282
Naphthalene	<0.04	<0.04	<1.6*	<0.16	0.6582	5.52	24.1
n-Propylbenzene	<0.025	<0.025	<1	<0.1	NL	264	264
Styrene	<0.025	<0.025	<1*	<0.1	0.22	867	867
1,1,1,2-Tetrachloroethane	<0.025	<0.025	<1*	<0.1*	0.0534	2.78	12.3
1,1,2,2-Tetrachloroethane	<0.025*	<0.025*	<1*	<0.1*	0.0002	0.81	3.6
Tetrachloroethene	<b>3.72</b>	<b>0.64</b>	<b>435</b>	<b>19.3</b>	0.0045	33	145
Toluene	<0.025	<0.025	<1	<0.1	1.1072	818	818
1,2,3-Trichlorobenzene	<0.025	<0.025	<1	<0.1	NL	62.6	934
1,2,4-Trichlorobenzene	<0.0476	<0.0476	<1.9*	<0.19	0.408	24	113
1,1,1-Trichloroethane	<0.025	<0.025	<1*	<0.1	0.1402	640	640
1,1,2-Trichloroethane	<0.025*	<0.025*	<1*	<0.1*	0.0032	1.59	7.01
Trichloroethene	<0.025	<0.025	<b>1.35 (J)</b>	<0.1*	0.0036	1.3	8.41
Trichlorofluoromethane	<0.025	<0.025	<1	<0.1	4.4775	1,230	1,230
1,2,3-Trichloropropane	<0.025	<0.025	<1*	<0.1*	0.0519	0.005	0.109
1,2,4-Trimethylbenzene	<0.025	<0.025	<1	<0.1	1.3821	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<1	<0.1		182	182
Vinyl chloride	<0.025*	<0.025*	<1*	<0.1*	0.0001	0.067	2.08
Xylenes (total)	<0.075	<0.075	<3	<0.3	3.96	260	260

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

\* – Limit of detection reported greater than most stringent applicable standard, generally in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR 720.07(2)(d)(1)

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

NL – Not Listed

VOCs via USEPA Method SW8260B/5035

Samples collected on September 8, 2016



**Table A.2.B. Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-1 (8-10)	GP-2 (8-10)	GP-3 (8-10)	GP-4 (2-4)	GP-4 (8-10)	GP-5 (14-15)			
Acenaphthene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	<0.0094	NL	3,590	45,200
Acenaphthylene	<0.0083	<0.0084	<0.0083	<0.0094	<0.0083	<0.0084	NL	NL	NL
Anthracene	<0.0097	<0.0098	<0.0096	<0.0109	<0.0097	<0.0097	197	17,900	100,000
Benzo(a)anthracene	<0.0065	<0.0065	<0.0064	<0.0073	<0.0065	0.0146 (J)	NL	1.14	20.8
Benzo(a)pyrene	<0.0067	<0.0067	<0.0067	<0.0075	<0.0067	0.0133 (J)	0.47	0.115	2.11
Benzo(b)fluoranthene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	0.0139 (J)	0.48	1.15	21.1
Benzo(g,h,i)perylene	<0.0071	<0.0072	<0.0071	<0.008	<0.0071	0.0072 (J)	NL	NL	NL
Benzo(k)fluoranthene	<0.0103	<0.0104	<0.0103	<0.0116	<0.0103	0.0137 (J)	NL	11.5	211
Chrysene	<0.0086	<0.0087	<0.0086	0.0105 (J)	<0.0086	0.0199	0.14	115	2,110
Dibenzo(a,h)anthracene	<0.0068	<0.0069	<0.0068	<0.0077	<0.0068	<0.0069	NL	0.115	2.11
Fluoranthene	<0.0093	<0.0094	<0.0093	0.0117 (J)	<0.0093	0.0333	88	2,390	30,100
Fluorene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	<0.0094	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	<0.0071	<0.0072	<0.0071	<0.008	<0.0071	<0.0071	NL	1.15	21.1
1-Methylnaphthene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	<0.0094	NL	17.6	72.7
2-Methylnaphthene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	<0.0094	NL	239	3,010
Naphthalene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	<0.0094	0.66	5.52	24.1
Phenanthrene	<0.0093	<0.0094	<0.0093	<0.0105	<0.0093	0.0204	NL	NL	NL
Pyrene	<0.0093	<0.0094	<0.0093	0.0111 (J)	<0.0093	0.0309	55	1,790	22,600

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNA's via USEPA Method SW8270SIM

Samples collected on November 12-13, 2014

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-6 (14-15)	GP-7 (14-15)	GP-8 (2-4)	GP-8R (14-15)	GP-9 (2-4)	GP-10 (2-4)			
Acenaphthene	<0.0099	<0.0094	<0.149	<0.0094	<0.01	<0.0108	NL	3,590	45,200
Acenaphthylene	<0.0088	<0.0084	<0.133	<0.0084	<0.009	<0.0097	NL	NL	NL
Anthracene	<0.0102	<0.0097	0.289 (J)	<0.0097	<0.0104	0.0131 (J)	197	17,900	100,000
Benzo(a)anthracene	<0.0068	<0.0065	<i>1.18</i>	<0.0065	<0.0069	0.024	NL	1.14	20.8
Benzo(a)pyrene	<0.007	<0.0067	<b>1.59</b>	<0.0067	<0.0072	0.0261	0.47	0.115	2.11
Benzo(b)fluoranthene	<0.0099	<0.0094	<b>1.49</b>	<0.0094	<0.01	0.0221	0.48	1.15	21.1
Benzo(g,h,i)perylene	<0.0075	<0.0072	1.16	<0.0072	<0.0076	0.0169 (J)	NL	NL	NL
Benzo(k)fluoranthene	<0.0109	<0.0104	1.69	<0.0104	<0.0111	0.022	NL	11.5	211
Chrysene	<0.0091	<0.0087	<b>1.95</b>	<0.0087	0.0099 (J)	0.0383	0.14	115	2,110
Dibenzo(a,h)anthracene	<0.0072	<0.0069	<i>0.392</i>	<0.0069	<0.0073	<0.0079	NL	0.115	2.11
Fluoranthene	<0.0099	<0.0094	4.09	<0.0094	0.0161 (J)	0.0554	88	2,390	30,100
Fluorene	<0.0099	<0.0094	<0.149	<0.0094	<0.01	<0.0108	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	<0.0075	<0.0071	1.01	<0.0071	<0.0076	0.0127 (J)	NL	1.15	21.1
1-Methylnaphthene	<0.0099	<0.0094	<0.149	<0.0094	<0.01	0.0162 (J)	NL	17.6	72.7
2-Methylnaphthene	<0.0099	<0.0094	<0.149	<0.0094	<0.01	0.018 (J)	NL	239	3,010
Naphthalene	<0.0099	<0.0094	<0.149	<0.0094	<0.01	0.0176 (J)	0.66	5.52	24.1
Phenanthrene	<0.0099	<0.0094	2.05	<0.0094	0.012 (J)	0.0586	NL	NL	NL
Pyrene	<0.0099	<0.0094	3.4	<0.0094	0.0131 (J)	0.057	55	1,790	22,600

<sup>1</sup> –Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNAs via USEPA Method SW8270SIM

Samples collected on November 12-13, 2014 or January 6, 2015

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-11 (2-4)	GP-11R (8-10)	GP-12 (8-10)	GP-13 (4-6)	GP-13R (8-10)	GP-14 (2-4)			
Acenaphthene	1.29	<0.0095	<0.0094	4.14	<0.0093	<0.0105	NL	3,590	45,200
Acenaphthylene	0.276 (J)	<0.0085	<0.0084	1.23 (J)	<0.0083	<0.0094	NL	NL	NL
Anthracene	4.21	<0.0098	<0.0097	2.63	<0.0096	<0.0109	197	17,900	100,000
Benzo(a)anthracene	3.5	<0.0066	<0.0065	<0.784	<0.0064	<0.0073	NL	1.14	20.8
Benzo(a)pyrene	<b><u>3.07</u></b>	<0.0068	<0.0067	<b>&lt;0.809</b>	<0.0066	<0.0075	0.47	0.115	2.11
Benzo(b)fluoranthene	<b><i>1.87</i></b>	<0.0095	<0.0094	<b>&lt;1.13</b>	<0.0093	<0.0105	0.48	1.15	21.1
Benzo(g,h,i)perylene	2.85	<0.0072	<0.0072	<0.862	<0.007	<0.008	NL	NL	NL
Benzo(k)fluoranthene	1.17	<0.0105	<0.0104	<1.25	<0.0102	<0.0116	NL	11.5	211
Chrysene	<b>5.66</b>	<0.0088	<0.0087	<b>&lt;1.05</b>	<0.0086	<0.0097	0.14	115	2,110
Dibenzo(a,h)anthracene	<i>0.714</i>	<0.007	<0.0069	<i>&lt;0.83</i>	<0.0068	<0.0077	NL	0.115	2.11
Fluoranthene	4.39	<0.0095	<0.0094	<1.13	<0.0093	<0.0105	88	2,390	30,100
Fluorene	2.19	<0.0095	<0.0094	6.58	<0.0093	<0.0105	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	<i>1.16</i>	<0.0072	<0.0071	<0.86	<0.007	<0.008	NL	1.15	21.1
1-Methylnaphthene	1.74	<0.0095	<0.0094	33.9	<0.0093	<0.0105	NL	17.6	72.7
2-Methylnaphthene	0.216 (J)	<0.0095	<0.0094	35.5	<0.0093	<0.0105	NL	239	3,010
Naphthalene	0.345 (J)	<0.0095	<0.0094	<b>7.63</b>	<0.0093	0.0118	0.66	5.52	24.1
Phenanthrene	11	<0.0095	<0.0094	12.5	<0.0093	<0.0105	NL	NL	NL
Pyrene	15	<0.0095	<0.0094	<1.13	<0.0093	<0.0105	55	1,790	22,600

<sup>1</sup> –Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNAs via USEPA Method SW8270SIM

Samples collected on November 12-13, 2014 or January 6, 2015

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-15 (4-6)	GP-101 (2-4)	GP-102 (2-4)	GP-103 (12-14)	GP-104 (2-4)	GP-105 (2-4)			
Acenaphthene	<0.0096	<0.124	0.0501 (J)	<0.0093	<0.0097	<0.142	NL	3,590	45,200
Acenaphthylene	<0.0086	<0.111	<0.0337	<0.0084	<0.0087	<0.127	NL	NL	NL
Anthracene	<0.01	0.183 (J)	0.16	<0.0097	<0.01	0.279 (J)	197	17,900	100,000
Benzo(a)anthracene	<0.0067	0.924	0.39	<0.0065	<0.0067	1.04	NL	1.14	20.8
Benzo(a)pyrene	<0.0069	<b>1.67</b>	<i>0.296</i>	<0.0067	<0.0069	<b>1.72</b>	0.47	0.115	2.11
Benzo(b)fluoranthene	<0.0096	<b>1.77</b>	0.412	<0.0093	<0.0097	<b>1.73</b>	0.48	1.15	21.1
Benzo(g,h,i)perylene	<0.0073	1.25	0.236	<0.0071	<0.0074	1.6	NL	NL	NL
Benzo(k)fluoranthene	<0.0106	1.15	0.127	<0.0103	<0.0107	0.664	NL	11.5	211
Chrysene	<0.0089	<b>1.42</b>	<b>0.702</b>	0.0103 (J)	<0.0089	<b>1.51</b>	0.14	115	2,110
Dibenzo(a,h)anthracene	<0.0071	<i>0.311</i>	0.0906	<0.0069	<0.0071	<i>0.33</i>	NL	0.115	2.11
Fluoranthene	<0.0096	2.63	0.436	<0.0093	<0.0097	1.85	88	2,390	30,100
Fluorene	<0.0096	<0.124	0.12	<0.0093	<0.0097	<0.142	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	<0.0073	0.899	0.137	<0.0071	<0.0074	0.747	NL	1.15	21.1
1-Methylnaphthene	<0.0096	0.131 (J)	0.502	0.0105 (J)	<0.0097	0.302	NL	17.6	72.7
2-Methylnaphthene	<0.0096	0.239 (J)	0.744	0.01 (J)	<0.0097	0.311	NL	239	3,010
Naphthalene	<0.0096	<0.124	0.351	<0.0093	<0.0097	0.154 (J)	0.66	5.52	24.1
Phenanthrene	<0.0096	1.39	1.17	0.0119 (J)	<0.0097	1.13	NL	NL	NL
Pyrene	<0.0096	2.51	0.714	<0.0093	<0.0097	3.77	55	1,790	22,600

<sup>1</sup> –Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNAs via USEPA Method SW8270SIM

Samples collected on November 12-13, 2014 or January 6, 2015

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-106 (2-4)	GP-107 (2-4)	GP-108 (2-4)	GP-109 (8-10)	GP-110 (8-10)	GP-111 (8-10)			
Acenaphthene	<0.0365	<0.366	1.73	<0.0095	<0.0094	<0.0094	NL	3,590	45,200
Acenaphthylene	<0.0327	0.768	0.433 (J)	<0.0085	<0.0084	<0.0084	NL	NL	NL
Anthracene	0.118	1.35	3.26	<0.0099	<0.0097	<0.0098	197	17,900	100,000
Benzo(a)anthracene	0.427	<i>4.36</i>	<i>4.6</i>	<0.0066	<0.0065	<0.0065	NL	1.14	20.8
Benzo(a)pyrene	<b>0.53</b>	<b><u>6.93</u></b>	<b><u>3.27</u></b>	<0.0068	<0.0067	<0.0067	0.47	0.115	2.11
Benzo(b)fluoranthene	<b>0.61</b>	<b><u>7.79</u></b>	<b><u>2.43</u></b>	<0.0095	<0.0094	<0.0094	0.48	1.15	21.1
Benzo(g,h,i)perylene	0.54	10.2	2.13	<0.0072	<0.0071	<0.0072	NL	NL	NL
Benzo(k)fluoranthene	0.209	3.54	0.83	<0.0105	<0.0104	<0.0104	NL	11.5	211
Chrysene	<b>0.586</b>	<b>5.21</b>	<b>5.1</b>	<0.0088	0.0089 (J)	<0.0087	0.14	115	2,110
Dibenzo(a,h)anthracene	0.112	<i>1.42</i>	0.569 (J)	<0.007	<0.0069	<0.0069	NL	0.115	2.11
Fluoranthene	0.631	5.1	3.2	<0.0095	<0.0094	<0.0094	88	2,390	30,100
Fluorene	0.0384 (J)	<0.366	3.11	<0.0095	<0.0094	<0.0094	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	0.273	<i>4.18</i>	0.95	<0.0072	<0.0071	<0.0071	NL	1.15	21.1
1-Methylnaphthene	0.0912	<0.366	9.92	<0.0095	<0.0094	<0.0094	NL	17.6	72.7
2-Methylnaphthene	0.102	<0.366	0.537 (J)	<0.0095	<0.0094	<0.0094	NL	239	3,010
Naphthalene	0.0842	<0.366	<0.352	<0.0095	<0.0094	<0.0094	0.66	5.52	24.1
Phenanthrene	0.336	1.4	17.3	<0.0095	<0.0094	<0.0094	NL	NL	NL
Pyrene	1.45	6.06	16.3	<0.0095	<0.0094	<0.0094	55	1,790	22,600

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNAs via USEPA Method SW8270SIM

Samples collected on January 6, 2015

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-201 (2-4)	GP-203 (4-6)	GP-204 (4-6)	GP-205 (4-6)	GP-206 (2-4)	GP-206 (8-10)			
Acenaphthene	<0.0116	<0.0103	<0.0105	0.0655	<0.0105	<0.0093	NL	3,590	45,200
Acenaphthylene	0.0151 (J)	<0.0092	<0.0094	0.02	<0.0094	<0.0083	NL	NL	NL
Anthracene	0.0454	<0.0106	<0.0109	0.045	<0.0108	<0.0096	197	17,900	100,000
Benzo(a)anthracene	0.0855	<0.0071	<0.0073	0.025	<0.0072	<0.0064	NL	1.14	20.8
Benzo(a)pyrene	0.081	<0.0073	<0.0075	0.0273	0.0092 (J)	<0.0066	0.47	0.115	2.11
Benzo(b)fluoranthene	0.104	<0.0103	<0.0105	0.0275	<0.0105	<0.0093	0.48	1.15	21.1
Benzo(g,h,i)perylene	0.033	<0.0078	<0.008	0.0123 (J)	0.0087 (J)	<0.0071	NL	NL	NL
Benzo(k)fluoranthene	0.0828	<0.0114	<0.0116	0.0277	<0.0116	<0.0103	NL	11.5	211
Chrysene	0.119	<0.0095	<0.0097	0.034	0.0101 (J)	<0.0086	0.14	115	2,110
Dibenzo(a,h)anthracene	0.0148 (J)	<0.0075	<0.0077	<0.0071	<0.0077	<0.0068	NL	0.115	2.11
Fluoranthene	0.149	<0.0103	<0.0105	0.0473	0.0149 (J)	<0.0093	88	2,390	30,100
Fluorene	<0.0116	<0.0103	<0.0105	0.0929	<0.0105	<0.0093	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	0.0325	<0.0078	<0.008	0.0098 (J)	<0.0079	<0.0071	NL	1.15	21.1
1-Methylnaphthene	0.153	<0.0103	<0.0105	0.0352	<0.0105	<0.0093	NL	17.6	72.7
2-Methylnaphthene	0.196	<0.0103	<0.0105	0.0466	<0.0105	<0.0093	NL	239	3,010
Naphthalene	0.155	<0.0103	<0.0105	0.026	<0.0105	<0.0093	0.66	5.52	24.1
Phenanthrene	0.253	<0.0103	<0.0105	0.103	<0.0105	<0.0093	NL	NL	NL
Pyrene	0.15	<0.0103	<0.0105	0.0609	0.0114 (J)	<0.0093	55	1,790	22,600

<sup>1</sup> –Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNAs via USEPA Method SW8270SIM

Samples collected on March 11, 2015

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)						GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-208 (2-4)	GP-208 (8-10)	GP-210 (2-4)	GP-210 (8-10)	GP-211 (2-4)	GP-212 (2-4)			
Acenaphthene	<0.0105	<0.0093	<0.0098	<0.0093	<0.0106	<0.0116	NL	3,590	45,200
Acenaphthylene	<0.0094	<0.0083	<0.0088	<0.0083	<0.0095	<0.0103	NL	NL	NL
Anthracene	0.0208 (J)	<0.0096	<0.0102	<0.0096	<0.011	<0.012	197	17,900	100,000
Benzo(a)anthracene	0.0528	<0.0064	<0.0068	<0.0064	<0.0073	0.0085 (J)	NL	1.14	20.8
Benzo(a)pyrene	0.0532	<0.0066	<0.007	<0.0066	<0.0076	0.0084 (J)	0.47	0.115	2.11
Benzo(b)fluoranthene	0.0548	<0.0093	<0.0098	<0.0093	<0.0106	<0.0116	0.48	1.15	21.1
Benzo(g,h,i)perylene	0.0441	<0.0071	<0.0075	<0.0071	<0.0081	<0.0088	NL	NL	NL
Benzo(k)fluoranthene	0.0581	<0.0103	<0.0109	<0.0102	<0.0117	<0.0128	NL	11.5	211
Chrysene	0.0816	<0.0086	<0.0091	<0.0086	<0.0098	0.0118 (J)	0.14	115	2,110
Dibenzo(a,h)anthracene	0.0143 (J)	<0.0068	<0.0072	<0.0068	<0.0078	<0.0085	NL	0.115	2.11
Fluoranthene	0.142	<0.0093	<0.0098	<0.0093	<0.0106	0.0254	88	2,390	30,100
Fluorene	<0.0105	<0.0093	<0.0098	<0.0093	<0.0106	<0.0116	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	0.0376	<0.007	<0.0075	<0.007	<0.008	<0.0088	NL	1.15	21.1
1-Methylnaphthene	0.0184 (J)	<0.0093	<0.0098	<0.0093	<0.0106	<0.0116	NL	17.6	72.7
2-Methylnaphthene	0.0338	<0.0093	<0.0098	<0.0093	<0.0106	<0.0116	NL	239	3,010
Naphthalene	0.0279	<0.0093	<0.0098	<0.0093	<0.0106	<0.0116	0.66	5.52	24.1
Phenanthrene	0.0952	<0.0093	<0.0098	<0.0093	<0.0106	0.0171 (J)	NL	NL	NL
Pyrene	0.111	<0.0093	<0.0098	<0.0093	<0.0106	0.0211 (J)	55	1,790	22,600

<sup>1</sup> –Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNA's via USEPA Method SW8270SIM

Samples collected on March 11, 2015

**Table A.2.B (Continued). Soil Analytical Results Table for Polynuclear Aromatic Compounds (mg/kg)**

Polynuclear Aromatic Hydrocarbon	Sample Location (Sample Depth)							GW RCL <sup>1</sup>	Residential DC RCL <sup>2</sup>	Industrial DC RCL <sup>3</sup>
	GP-213 (2-4)	HA-1 (0-2)	GP-301 (2-4)	GP-302 (2-4)	GP-303 (2-4)	GP-304 (2-4)	GP-305 (2-4)			
Acenaphthene	<0.0108	<0.0097	<0.0093	0.325 (J)	<0.0091	0.0175 (J)	<0.0095	NL	3,590	45,200
Acenaphthylene	<0.0096	<0.0086	0.0154 (J)	<0.178	<0.0082	<0.0082	<0.0085	NL	NL	NL
Anthracene	<0.0112	<0.01	0.0211	1.05	<0.0095	0.0386	0.0236	197	17,900	100,000
Benzo(a)anthracene	0.0128 (J)	<0.0067	0.0464	1.07	<0.0063	0.0684	0.0526	NL	1.14	20.8
Benzo(a)pyrene	0.0128 (J)	<0.0069	0.065	<b>0.894</b>	<0.0065	0.0711	0.0548	0.47	0.115	2.11
Benzo(b)fluoranthene	0.0112 (J)	<0.0097	0.0511	<b>0.503</b>	<0.0091	0.0638	0.061	0.48	1.15	21.1
Benzo(g,h,i)perylene	<0.0082	<0.0074	0.0852	0.72	<0.0069	0.0488	0.0367	NL	NL	NL
Benzo(k)fluoranthene	0.0124 (J)	<0.0107	0.0483	0.311 (J)	<0.0101	0.0618	0.0446	NL	11.5	211
Chrysene	0.0174 (J)	<0.0089	0.0722	<b>1.78</b>	<0.0084	0.0843	0.0779	0.14	115	2,110
Dibenzo(a,h)anthracene	<0.0079	<0.0071	0.0172 (J)	<i>0.173 (J)</i>	<0.0067	0.0148 (J)	0.0131 (J)	NL	0.115	2.11
Fluoranthene	0.0332	0.0124 (J)	0.0841	1.14	<0.0091	0.181	0.125	88	2,390	30,100
Fluorene	<0.0108	<0.0097	<0.0093	0.444	<0.0091	0.0208	<0.0095	14	2,390	30,100
Indeno(1,2,3-cd)pyrene	<0.0082	<0.0073	0.04	0.277 (J)	<0.0069	0.0374	0.0303	NL	1.15	21.1
1-Methylnaphthene	<0.0108	<0.0097	0.0101 (J)	1.07	<0.0091	0.0303	0.0368	NL	17.6	72.7
2-Methylnaphthene	<0.0108	<0.0097	0.0104 (J)	0.421	<0.0091	0.0387	0.0479	NL	239	3,010
Naphthalene	<0.0108	<0.0097	0.013 (J)	0.282 (J)	<0.0091	0.0494	0.0471	0.66	5.52	24.1
Phenanthrene	0.0305	<0.0097	0.0408	0.906	<0.0091	0.122	0.196	NL	NL	NL
Pyrene	0.0333	0.0111 (J)	0.0997	5.13	<0.0091	0.134	0.0885	55	1,790	22,600

<sup>1</sup> – Soil Residual Contaminant Levels (RCLs) based on protection of groundwater (GW) and a dilution factor of 2 taken from the Soil RCL spreadsheet (March 2017 update) generated by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment Program in compliance with Chapter NR 720 of the Wisconsin Administrative Code

<sup>2</sup> – Soil RCL for Direct Contact (DC) based upon Non-Industrial (Residential) property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

<sup>3</sup> – Soil RCL for DC based upon Industrial property classifications taken from the WDNR Soil RCL spreadsheet (March 2017 update)

**Bold** – Concentration exceeds the most stringent applicable RCL (GW RCL or Industrial DC RCL)

Underlined – Concentration exceeds the Industrial DC RCL

*Italics* – Concentration exceeds the Non-industrial DC RCL (property is commercial, not residential)

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

NL – Not Listed

PNAs via USEPA Method SW8270SIM

Samples collected on March 11, and April 24, 2015 or February 19, 2016



**Table A.4.A Summary of Sub-Slab Vapor Sample Analyses  
for Volatile Organic Compounds (mg/m<sup>3</sup>)**

Volatile Organic Compound	Sample Location						Sub-slab VRSL <sup>1</sup>
	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	
Acetone	0.0409	0.148	0.158	0.0396	0.0946	0.0553	4,667
Benzene	0.0037	0.0022	0.0037	0.00049	0.0018	0.0056	0.53
Benzyl chloride	<0.00025	<0.00029	<0.00029	<0.00022	<0.00028	<0.00028	0.083
Bromodichloromethane	<0.00029	<0.00034	<0.00034	<0.00026	<0.00033	<0.00033	0.11
Bromoform	<0.0013	<0.0016	<0.0016	<0.0012	<0.0015	<0.0015	3.67
Bromomethane	<0.00046	<0.00054	<0.00054	<0.00042	<0.00052	<0.00052	0.73
1,3-Butadiene	<0.00026	<0.00031	<0.00031	<0.00024	<0.0003	<0.0003	0.14
2-Butanone (MEK)	0.0067	0.0086	0.013	<0.00031	0.0051	0.0102	733
Carbon disulfide	0.0197	0.0047	0.0082	<0.00014	0.0011	0.0024	103
Carbon tetrachloride	0.00059	0.0008	<0.00034	<0.00026	<0.00032	<0.00032	0.67
Chlorobenzene	<0.0002	<0.00023	<0.00023	<0.00018	<0.00023	<0.00023	7.33
Chloroethane	<0.00029	<0.00034	<0.00034	<0.00026	<0.00033	<0.00033	1,467
Chloroform	<0.00028	<0.00033	<0.00033	0.0008	<0.00032	0.0014	0.18
Chloromethane	<0.00016	<0.00019	0.00071	0.00035	0.001	<0.00018	13
Cyclohexane	0.0015	0.003	0.011	0.0013	0.0026	0.0202	866
Dibromochloromethane	<0.0013	<0.0015	<0.0015	<0.0011	<0.0014	<0.0014	NL
1,2-Dibromoethane (EDB)	<0.0012	<0.0013	<0.0013	<0.001	<0.0013	<0.0013	0.007
1,2-Dichlorobenzene	<0.00076	<0.00089	<0.00089	<0.00069	<0.00086	<0.00086	0.0029
1,3-Dichlorobenzene	<0.00079	<0.00092	<0.00092	<0.00071	<0.00089	<0.00089	NL
1,4-Dichlorobenzene	0.003	<0.00087	<0.00087	<0.00067	<0.00084	<0.00084	0.367
Dichlorodifluoromethane	0.0024	0.0032	0.0128	0.0034	0.0038	0.0104	15
1,1-Dichloroethane	<0.00023	<0.00027	<0.00027	<0.00021	<0.00026	<0.00026	2.6
1,2-Dichloroethane	<0.00031	<0.00036	<0.00036	<0.00027	0.0019	0.0074	0.16
1,1-Dichloroethene	<0.00035	<0.00041	<0.00041	<0.00032	<0.0004	<0.0004	29
cis-1,2-Dichloroethene	<0.00037	<0.00043	<0.00043	<0.00033	<0.00041	0.00071	NL
trans-1,2-Dichloroethene	<0.00057	<0.00067	<0.00067	<0.00051	<0.00065	0.0015	NL
1,2-Dichloropropane	<0.0004	<0.00047	<0.00047	<0.00036	<0.00045	<0.00045	0.4
cis-1,3-Dichloropropene	<0.00055	<0.00064	<0.00064	<0.00049	<0.00062	<0.00062	1.03
trans-1,3-Dichloropropene	<0.00039	<0.00045	<0.00045	<0.00035	<0.00044	<0.00044	NL
Dichlorotetrafluoroethane	<0.00046	<0.00054	<0.00054	<0.00042	<0.00052	<0.00052	NL
Ethanol	0.0213	0.105	0.0968	0.0391	0.0622	0.921	NL
Ethyl acetate	<0.00052	<0.00061	<0.00061	<0.00047	0.0011	<0.00058	10
Ethylbenzene	0.0028	0.0037	0.0045	0.00077	0.003	0.0071	1.6
4-Ethyltoluene	0.0014	0.0023	0.002	0.00057	0.0017	0.0033	NL
n-Heptane	0.0026	0.0045	0.0123	0.0012	0.0041	0.0108	NL
Hexachloro-1,3-butadiene	<0.00097	<0.0011	<0.0011	<0.00087	<0.0011	<0.0011	0.187
n-Hexane	0.0021	0.0045	0.0122	0.0022	0.0039	0.0106	103
2-Hexanone	<0.00061	<0.00071	<0.00071	<0.00055	<0.00069	<0.00069	4
Methylene chloride	<0.00081	<0.00094	<0.00094	0.0271	0.003	<0.00091	87
4-Methyl-2-pentanone (MIBK)	<0.00032	<0.00038	<0.00038	<0.00029	<0.00036	<0.00036	433
Methyl tertiary-butyl ether	<0.00045	<0.00053	<0.00053	<0.00041	<0.00051	<0.00051	16
Naphthalene	0.0255	0.0153	0.018	<0.00041	<0.00051	0.0031	0.12
2-Propanol	0.0358	0.204	0.371	0.118	0.353	0.264	29
Propylene	0.0089	<0.00023	<0.00023	<0.00018	<0.00023	<0.00023	433
Styrene	0.0011	<0.00034	<0.00034	<0.00026	<0.00032	<0.00032	146
1,1,2,2-Tetrachloroethane	<0.00049	<0.00057	<0.00057	<0.00044	<0.00055	<0.00055	0.567
Tetrachloroethene	0.0166	0.0089	0.0011	1.11	1.97	<b>41.5</b>	6
Tetrahydrofuran	0.0012	<0.00021	<0.00021	<0.00016	<0.0002	<0.0002	293
Toluene	0.0073	0.0095	0.012	0.0079	0.0078	0.0187	730
1,2,4-Trichlorobenzene	<0.0014	<0.0016	<0.0016	<0.0012	<0.0015	<0.0015	0.29
1,1,1-Trichloroethane	<0.00037	<0.00043	<0.00043	0.0062	0.0311	0.12	730

**Table A.4.A (Continued). Summary of Sub-Slab Vapor Sample Analyses  
for Volatile Organic Compounds (mg/m<sup>3</sup>)**

Volatile Organic Compound	Sample Location						Sub-slab VRSL <sup>1</sup>
	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	
1,1,2-Trichloroethane	<0.00037	<0.00043	<0.00043	<0.00033	<0.00041	<0.00041	0.26
Trichloroethene	0.00052	0.00059	<0.00048	0.0085	0.0037	0.0666	0.29
Trichlorofluoromethane	0.0011	0.0012	0.0021	0.0012	<0.00022	0.00096	NL
1,1,2-Trichlorotrifluoroethane	0.00062	<0.00052	0.0014	0.0305	0.0141	0.0079	4,333
1,2,4-Trimethylbenzene	0.0056	0.0089	0.0082	0.0016	0.0049	0.015	1
1,3,5-Trimethylbenzene	0.0015	0.0023	0.0022	<0.00025	0.0012	0.0043	NL
Vinyl acetate	<0.00049	<0.00057	<0.00057	<0.00044	<0.00055	<0.00055	29
Vinyl chloride	<0.00029	<0.00034	<0.00034	<0.00026	<0.00033	<0.00033	0.93
m&p-Xylene	0.006	0.01	0.0104	0.0023	0.0065	0.0168	15
o-Xylene	0.0028	0.0036	0.004	0.0008	0.0026	0.0065	15

<sup>1</sup> – Sub-slab Vapor Risk Screening Levels (VRSLs) for Small Commercial space taken from the *WI Vapor Quick Look-Up Table Indoor Air Vapor Action Levels and Vapor Risk Screening Levels* (May 2016 update) or calculated from USEPA RSLs per *WI Vapor Quick Look-Up Table* notes

**Bold** – Concentration exceeds the Sub-slab VRSL

NL – Not Listed and not calculated (either no information available on USEPA tables, or contaminant not detected)  
VOCs by USEPA Method TO-15

Samples collected on February 18, 2016, or September 8, 2016

**Table A.4.A (Continued). Summary of Sub-Slab Vapor Sample Analyses  
for Volatile Organic Compounds (mg/m<sup>3</sup>)**

Volatile Organic Compound	Sample Location						Sub-slab VRSL <sup>1</sup>
	SS-7	SS-8	SS-9	SS-10	SS-11	SS-101	
Acetone	0.0134	0.111	0.283	0.0642	0.212	0.097	4,667
Benzene	0.00047	0.00085	0.0063	0.0035	0.0033	0.0055	0.53
Benzyl chloride	<0.00024	<0.00022	<0.00028	<0.00029	<0.00029	NR	0.083
Bromodichloromethane	<0.00028	<0.00026	<0.00033	<0.00034	<0.00034	<0.004	0.11
Bromoform	<0.0013	<0.0012	<0.0015	<0.0016	<0.0016	<0.016	3.67
Bromomethane	<0.00045	<0.00042	<0.00052	<0.00054	<0.00054	<0.0059	0.73
1,3-Butadiene	<0.00025	<0.00024	<0.0003	<0.00031	<0.00031	NR	0.14
2-Butanone (MEK)	<0.00033	0.0048	0.0136	0.0032	0.0198	0.0093	733
Carbon disulfide	<0.00015	0.00087	0.0057	0.00094	0.0143	0.0092	103
Carbon tetrachloride	0.00046	<0.00026	<0.00032	0.00081	<0.00034	<0.004	0.67
Chlorobenzene	<0.00019	<0.00018	<0.00023	<0.00023	<0.00023	<0.0028	7.33
Chloroethane	<0.00028	<0.00026	<0.00033	<0.00034	<0.00034	NR	1,467
Chloroform	<0.00027	<0.00025	<0.00032	<0.00033	<0.00033	<0.0031	0.18
Chloromethane	<0.00016	<0.00014	<0.00018	<0.00019	<0.00019	NR	13
Cyclohexane	0.00061	0.0016	0.0125	0.0052	0.0105	NR	866
Dibromochloromethane	<0.0012	<0.0011	<0.0014	<0.0015	<0.0015	<0.0052	NL
1,2-Dibromoethane (EDB)	<0.0011	<0.001	<0.0013	<0.0013	<0.0013	<0.0046	0.007
1,2-Dichlorobenzene	<0.00074	<0.00069	<0.00086	<0.00089	<0.00089	<0.0037	0.0029
1,3-Dichlorobenzene	<0.00076	<0.00071	<0.00089	<0.00092	<0.00092	NR	NL
1,4-Dichlorobenzene	<0.00072	<0.00067	<0.00084	<0.00087	<0.00087	<0.0037	0.367
Dichlorodifluoromethane	0.0025	0.0026	0.0027	0.004	<0.00084	0.012	15
1,1-Dichloroethane	<0.00023	<0.00021	<0.00026	<0.00027	<0.00027	<0.0025	2.6
1,2-Dichloroethane	<0.0003	<0.00027	0.00076	<0.00036	<0.00036	<0.0025	0.16
1,1-Dichloroethene	<0.00034	<0.00032	<0.0004	<0.00041	<0.00041	<0.0025	29
cis-1,2-Dichloroethene	<0.00035	<0.00033	<0.00041	<0.00043	<0.00043	<0.0025	NL
trans-1,2-Dichloroethene	<0.00055	<0.00051	<0.00065	<0.00067	<0.00067	<0.0025	NL
1,2-Dichloropropane	<0.00039	<0.00036	<0.00045	<0.00047	<0.00047	<0.0028	0.4
cis-1,3-Dichloropropene	<0.00053	<0.00049	<0.00062	<0.00064	<0.00064	<0.0028	1.03
trans-1,3-Dichloropropene	<0.00037	<0.00035	<0.00044	<0.00045	<0.00045	<0.0028	NL
Dichlorotetrafluoroethane	<0.00045	<0.00042	<0.00052	<0.00054	<0.00054	NR	NL
Ethanol	0.127	0.0245	0.125	0.0474	0.0964	NR	NL
Ethyl acetate	<0.0005	<0.00047	0.00069	0.001	<0.00061	NR	10
Ethylbenzene	0.00067	0.00063	0.0045	0.0031	0.0047	0.028	1.6
4-Ethyltoluene	<0.00027	<0.00025	0.0019	0.00098	0.0013	NR	NL
n-Heptane	0.00069	0.0012	0.023	0.0078	0.0148	NR	NL
Hexachloro-1,3-butadiene	<0.00094	<0.00087	<0.0011	<0.0011	<0.0011	NR	0.187
n-Hexane	0.00065	0.0011	0.0223	0.0281	0.0144	NR	103
2-Hexanone	<0.00059	<0.00055	<0.00069	<0.00071	0.0044	NR	4
Methylene chloride	<0.00078	<0.00073	<0.00091	0.312	<0.00094	<0.021	87
4-Methyl-2-pentanone (MIBK)	<0.00031	<0.00029	<0.00036	0.0014	<0.00038	NR	433
Methyl tertiary-butyl ether	<0.00044	<0.00041	<0.00051	<0.00053	<0.00053	<0.0022	16
Naphthalene	<0.00044	0.0023	<0.00051	<0.00053	<0.00053	<b>0.8</b>	0.12
2-Propanol	0.0146	0.0214	0.0878	0.0067	0.0624	NR	29
Propylene	<0.00019	<0.00018	<0.00023	<0.00023	<0.00023	NR	433
Styrene	<0.00028	<0.00026	0.00048	<0.00034	<0.00034	0.0056	146
1,1,2,2-Tetrachloroethane	<0.00047	<0.00044	<0.00055	<0.00057	<0.00057	NR	0.567
Tetrachloroethene	0.0685	0.0311	0.0281	0.0057	0.0315	2.3	6
Tetrahydrofuran	<0.00017	<0.00016	0.0079	0.0039	<0.00021	NR	293
Toluene	0.0037	0.0016	0.0117	0.0476	0.0093	0.42	730
1,2,4-Trichlorobenzene	<0.0013	<0.0012	<0.0015	<0.0016	<0.0016	<0.0046	0.29

**Table A.4.A (Continued). Summary of Sub-Slab Vapor Sample Analyses  
for Volatile Organic Compounds (mg/m<sup>3</sup>)**

Volatile Organic Compound	Sample Location						Sub-slab VRSL <sup>1</sup>
	SS-7	SS-8	SS-9	SS-10	SS-11	SS-101	
1,1,1-Trichloroethane	<0.00036	0.00096	0.0125	<0.00043	<0.00043	<0.0034	730
1,1,2-Trichloroethane	<0.00035	<0.00033	<0.00041	<0.00043	<0.00043	<0.0034	0.26
Trichloroethene	0.0015	<0.00037	<0.00046	0.00096	<0.00048	<0.0034	0.29
Trichlorofluoromethane	0.0012	0.0012	0.0013	0.0023	0.0012	0.0035	NL
1,1,2-Trichlorotrifluoroethane	0.00076	0.00055	0.00079	0.00096	<0.00052	NR	4,333
1,2,4-Trimethylbenzene	0.0015	0.002	0.0078	0.0022	0.0053	NR	1
1,3,5-Trimethylbenzene	<0.00026	<0.00025	0.0023	0.0012	0.0019	NR	NL
Vinyl acetate	<0.00048	<0.00044	<0.00055	<0.00057	<0.00057	<0.022	29
Vinyl chloride	<0.00028	<0.00026	<0.00033	<0.00034	<0.00034	<0.0015	0.93
m&p-Xylene	0.002	0.0022	0.0139	0.011	0.017	0.039	15
o-Xylene	0.00073	0.00082	0.0049	0.0032	0.0053	0.021	15

<sup>1</sup> – Sub-slab Vapor Risk Screening Levels (VRSLs) for Small Commercial space taken from the *WI Vapor Quick Look-Up Table Indoor Air Vapor Action Levels and Vapor Risk Screening Levels* (May 2016 update) or calculated from USEPA RSLs per *WI Vapor Quick Look-Up Table* notes

**Bold** – Concentration exceeds the Sub-slab VRSL

NL – Not listed in *WI Vapor Quick Look-Up Table* and not calculated (either no information available on USEPA tables, or contaminant not detected)

NR – Contaminant not reported by laboratory

VOCs by USEPA Method TO-15

Samples collected on February 18, 2016, or September 8, 2016

**Table A.4.B. Summary of Soil Gas Sample Analyses  
for Volatile Organic Compounds (mg/m<sup>3</sup>)**

Volatile Organic Compound	Sample Location			Deep Soil Gas VRSL <sup>1</sup>
	SG-1	SG-2	SG-3	
Acetone	<0.015	0.15	<0.015	14,000
Benzene	0.0025	0.0078	0.0081	1.6
Benzyl chloride	NR	NR	NR	0.25
Bromodichloromethane	<0.0041	<0.004	<0.0042	0.33
Bromoform	<0.016	<0.016	<0.017	11
Bromomethane	<0.006	<0.0059	<0.0061	2.2
1,3-Butadiene	NR	NR	NR	0.41
2-Butanone (MEK)	<0.0047	0.0075	0.0089	2,200
Carbon disulfide	0.41	0.0095	0.053	310
Carbon tetrachloride	<0.0041	<0.004	<0.0042	2
Chlorobenzene	<0.0028	<0.0028	<0.0029	22
Chloroethane	NR	NR	NR	4,400
Chloroform	<0.0031	0.019	<0.0032	0.53
Chloromethane	NR	NR	NR	39
Cyclohexane	NR	NR	NR	2,600
Dibromochloromethane	<0.0053	<0.0052	<0.0055	NL
1,2-Dibromoethane (EDB)	<0.0047	<0.0046	<0.0048	0.02
1,2-Dichlorobenzene	<0.0038	<0.0037	<0.0039	0.0088
1,3-Dichlorobenzene	NR	NR	NR	NL
1,4-Dichlorobenzene	<0.0038	<0.0037	<0.0039	1
Dichlorodifluoromethane	0.029	0.026	0.022	44
1,1-Dichloroethane	<0.0025	<0.0025	<0.0026	7.7
1,2-Dichloroethane	<0.0025	<0.0025	<0.0026	0.47
1,1-Dichloroethene	<0.0025	<0.0025	<0.0026	88
cis-1,2-Dichloroethene	<0.0025	<0.0025	<0.0026	NL
trans-1,2-Dichloroethene	<0.0025	<0.0025	<0.0026	NL
1,2-Dichloropropane	<0.0028	<0.0028	<0.0029	1.2
cis-1,3-Dichloropropene	<0.0028	<0.0028	<0.0029	3.1
trans-1,3-Dichloropropene	<0.0028	<0.0028	<0.0029	NL
Dichlorotetrafluoroethane	NR	NR	NR	NL
Ethanol	NR	NR	NR	NL
Ethyl acetate	<0.0056	<0.0055	<0.0058	31
Ethylbenzene	<0.0028	<0.0028	<0.0029	4.9
4-Ethyltoluene	NR	NR	NR	NL
n-Heptane	NR	NR	NR	NL
Hexachloro-1,3-butadiene	NR	NR	NR	0.56
n-Hexane	NR	NR	NR	310
2-Hexanone	NR	NR	NR	13
Methylene chloride	<0.022	<0.021	<0.022	260
4-Methyl-2-pentanone (MIBK)	NR	NR	NR	1,300
Methyl tertiary-butyl ether	<0.0022	<0.0022	<0.0023	47
Naphthalene	<0.0031	<0.0031	<0.0032	0.36
2-Propanol	NR	NR	NR	88
Propylene	NR	NR	NR	1,300
Styrene	<0.0028	<0.0028	<0.0029	440
1,1,2,2-Tetrachloroethane	NR	NR	NR	1.7
Tetrachloroethene	5.8	0.35	0.071	18
Tetrahydrofuran	NR	NR	NR	880
Toluene	<0.0025	0.0094	0.017	2,200
1,2,4-Trichlorobenzene	<0.0047	<0.0046	<0.0048	0.88
1,1,1-Trichloroethane	0.0043	<0.0034	<0.0035	2,200

**Table A.4.B (Continued). Summary of Soil Gas Sample Analyses  
for Volatile Organic Compounds (mg/m<sup>3</sup>)**

Volatile Organic Compound	Sample Location			Deep Soil Gas VRSL <sup>1</sup>
	SG-1	SG-2	SG-3	
1,1,2-Trichloroethane	<0.0034	<0.0034	<0.0035	0.077
Trichloroethene	<0.0034	<0.0034	<0.0035	0.88
Trichlorofluoromethane	<0.0034	<0.0034	<0.0035	NL
1,1,2-Trichlorotrifluoroethane	NR	NR	NR	13,000
1,2,4-Trimethylbenzene	NR	NR	NR	3.1
1,3,5-Trimethylbenzene	NR	NR	NR	NL
Vinyl acetate	<0.022	<0.022	<0.023	88
Vinyl chloride	<0.0016	<0.0015	<0.0016	2.8
m&p-Xylene	<0.0053	<0.0052	0.0066	44
o-Xylene	<0.0028	<0.0028	0.0039	44

<sup>1</sup> – Deep Soil Gas Vapor Risk Screening Levels (VRSLs) for Small Commercial space taken from the *WI Vapor Quick Look-Up Table Indoor Air Vapor Action Levels and Vapor Risk Screening Levels* (May 2016 update) or calculated from USEPA RSLs per *WI Vapor Quick Look-Up Table* notes

NR – Contaminant not reported by laboratory

VOCs by USEPA Method TO-15

Samples collected on September 8, 2016

**Table A.4.C. Summary of Indoor Air Sample Analyses  
for Volatile Organic Compounds ( $\mu\text{g}/\text{m}^3$ )**

Volatile Organic Compound	Sample Location					Indoor Air VAL <sup>1</sup>
	IAS-1	IAS-2	IAS-3	IAS-4	OAS-1*	
Benzene	<0.74	<0.76	<0.72	<0.69	<0.73	16
Carbon tetrachloride	<1.5	<1.5	<1.4	<1.4	<1.4	20
Chloroform	<0.28	<0.29	<0.28	<0.26	<0.28	5.3
Chloromethane	<1.2	<1.2	<1.2	1.1	<1.2	390
Dichlorodifluoromethane	1.7	1.8	1.8	1.8	1.8	440
1,1-Dichloroethane	<0.94	<0.96	<0.92	<0.87	<0.93	77
1,2-Dichloroethane	<0.94	<0.96	<0.92	<0.87	<0.93	4.7
1,1-Dichloroethene	<0.92	<0.94	<0.9	<0.86	<0.91	880
cis-1,2-Dichloroethene	<0.92	<0.94	<0.9	<0.86	<0.91	NL
trans-1,2-Dichloroethene	<0.92	<0.94	<0.9	<0.86	<0.91	NL
Ethylbenzene	<1	<1	<0.99	<0.94	<1	49
Methylene Chloride	<8.1	<8.2	<7.9	<7.5	<8	2,600
Methyl tertiary-butyl ether	<0.84	<0.85	<0.82	<0.78	<0.83	470
Naphthalene	<0.31	<0.31	<0.3	<0.28	<0.3	3.6
Tetrachloroethene	15	15	23	3.5	<1.6	180
Toluene	1.1	1.2	2.4	2	<0.87	22,000
1,1,1-Trichloroethane	<1.3	<1.3	<1.2	<1.2	<1.3	22,000
Trichloroethene	<0.31	<0.32	<0.3	<0.29	<0.31	8.8
Trichlorofluoromethane	<1.3	<1.3	<1.3	<1.2	<1.3	NL
1,2,4-Trimethylbenzene	<1.1	<1.2	<1.1	<1.1	<1.1	31
1,3,5-Trimethylbenzene	<1.1	<1.2	<1.1	<1.1	<1.1	NL
Vinyl chloride	<0.6	<0.61	<0.58	<0.55	<0.59	28
m&p-Xylene	<2	<2.1	<2	<1.9	<2	440
o-Xylene	<1	<1	<0.99	<0.94	<1	440

<sup>1</sup> – Indoor Air Vapor Action Levels (VALs) for Small Commercial space taken from the *WI Vapor Quick Look-Up Table Indoor Air Vapor Action Levels and Vapor Risk Screening Levels* (May 2016 update) or calculated from USEPA RSLs per *WI Vapor Quick Look-Up Table* notes

\* – OAS-1 is an outdoor air sample for comparison to indoor air sample results

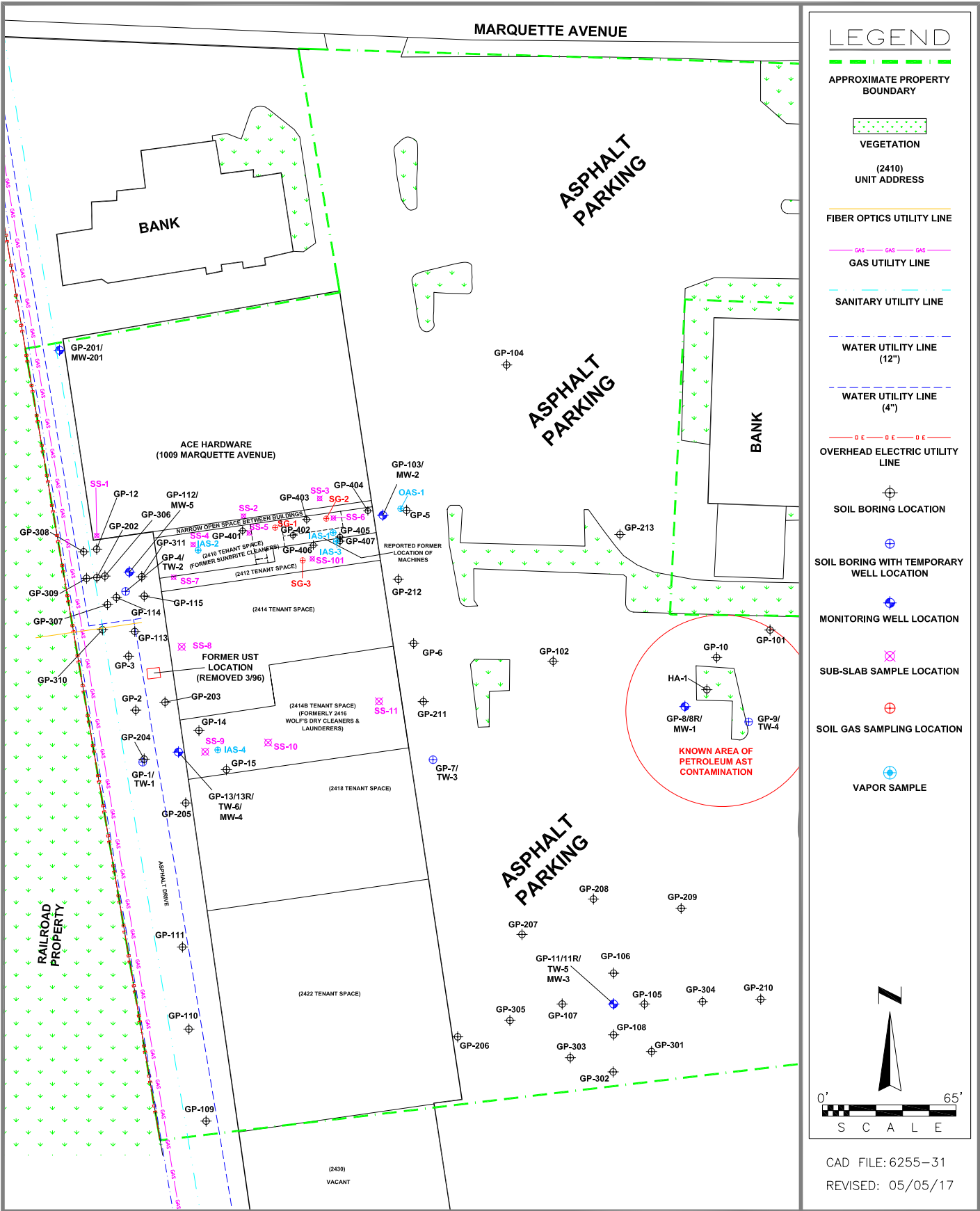
NL – Not listed in *WI Vapor Quick Look-Up Table* and not calculated (either no information available on USEPA tables, or contaminant not detected)

VOCs by USEPA Method TO-15

Samples collected on April 5, 2017

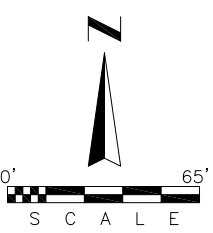
**ATTACHMENT B**  
**FIGURES**



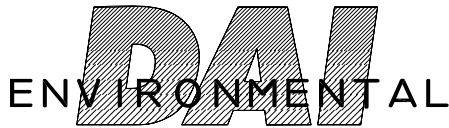


**LEGEND**

- 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
- SOIL BORING LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- MONITORING WELL LOCATION
- SUB-SLAB SAMPLE LOCATION
- SOIL GAS SAMPLING LOCATION
- VAPOR SAMPLE

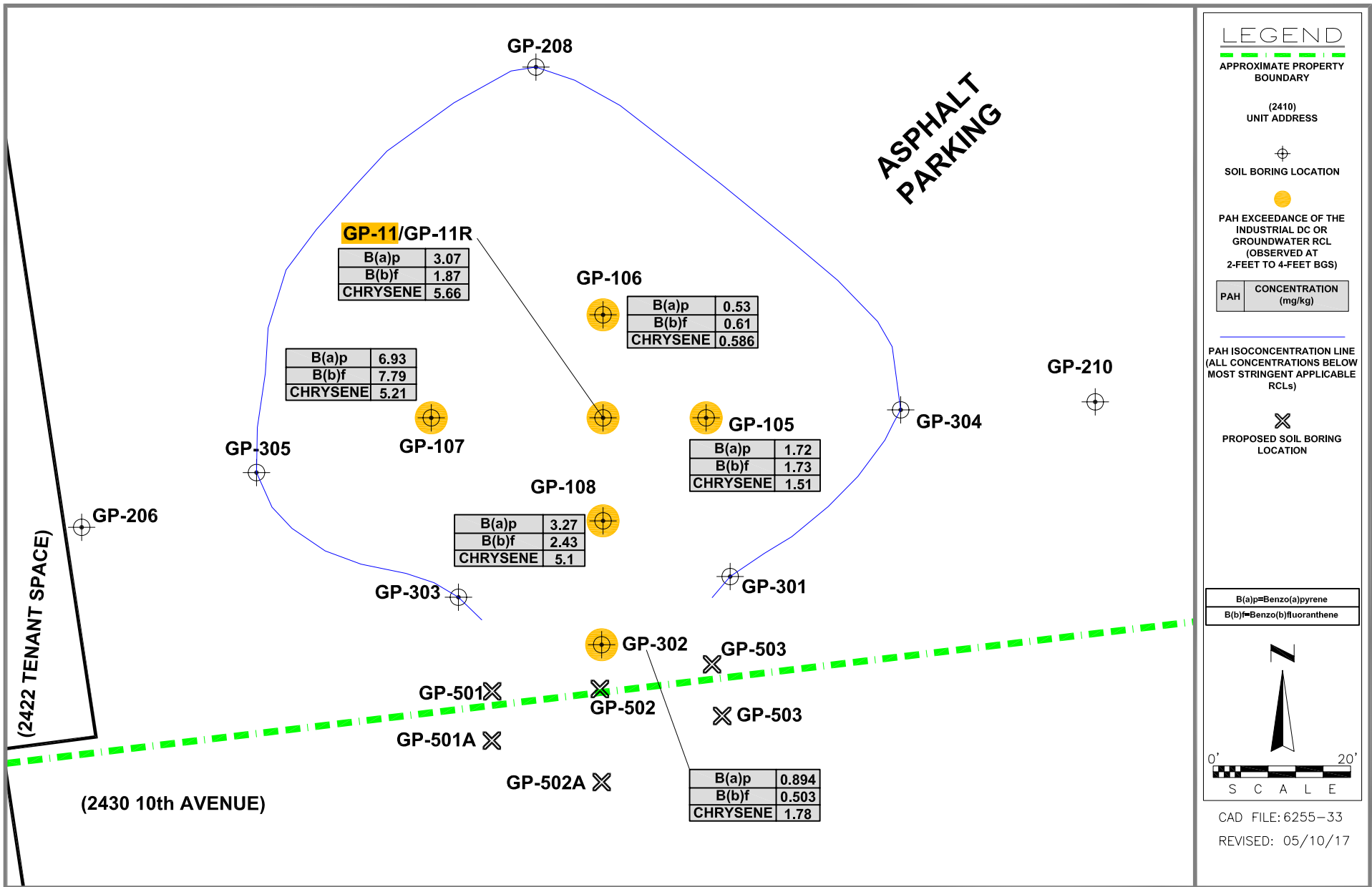


CAD FILE: 6255-31  
 REVISED: 05/05/17



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

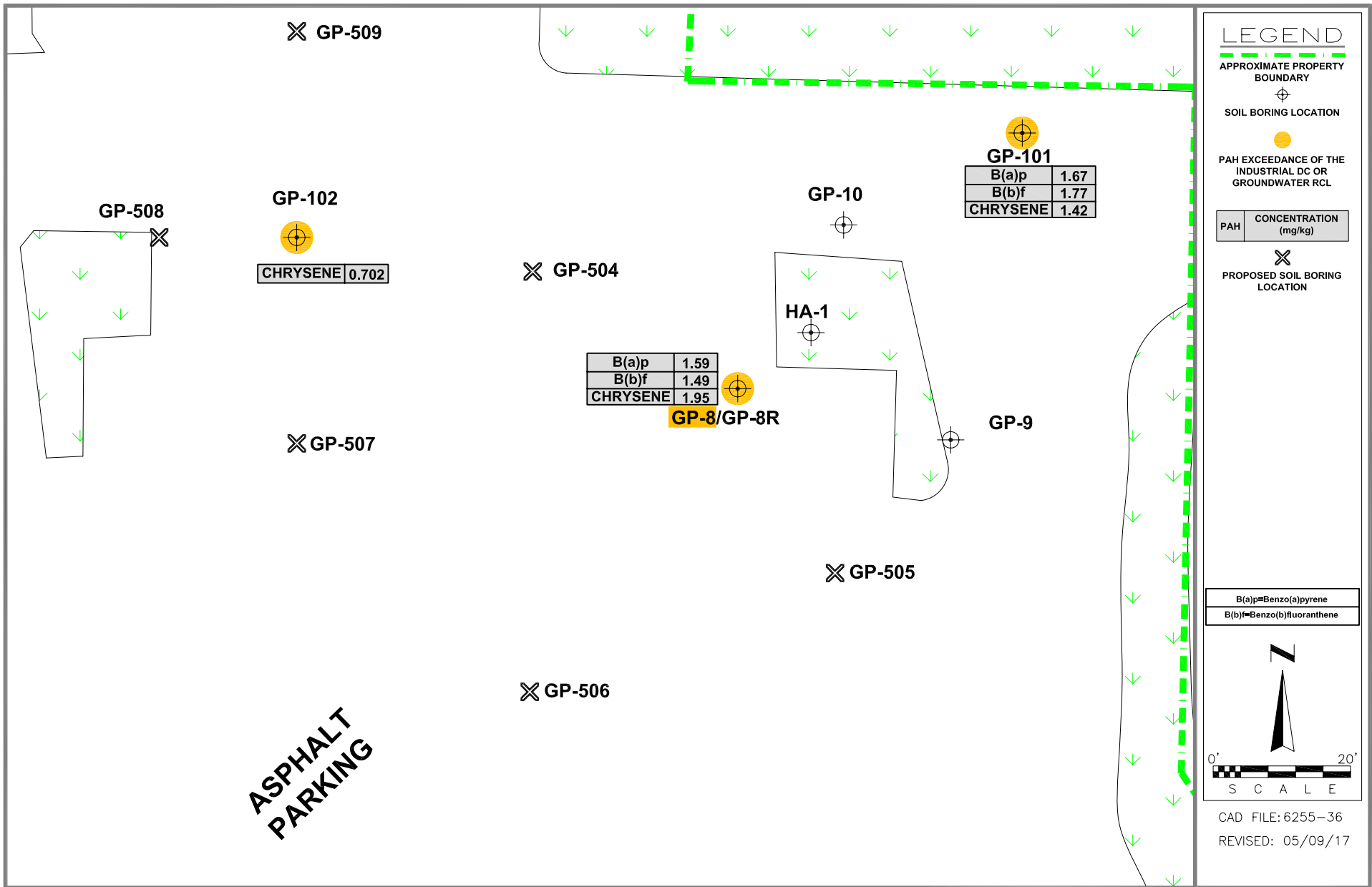
**FIGURE B.1.b.2**  
 DETAILED SITE MAP SHOWING  
 SOIL, GROUNDWATER, AND VAPOR  
 SAMPLING LOCATIONS

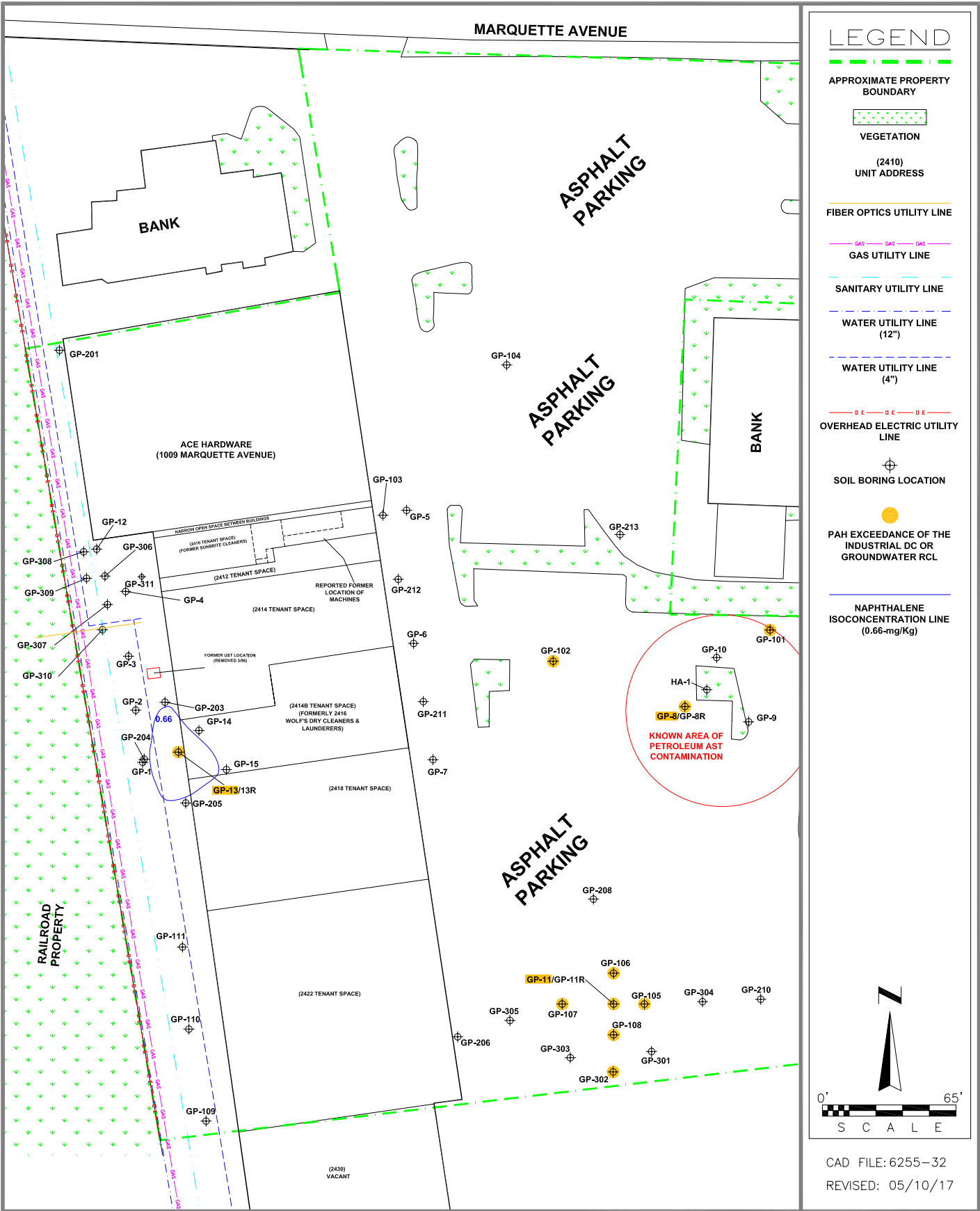


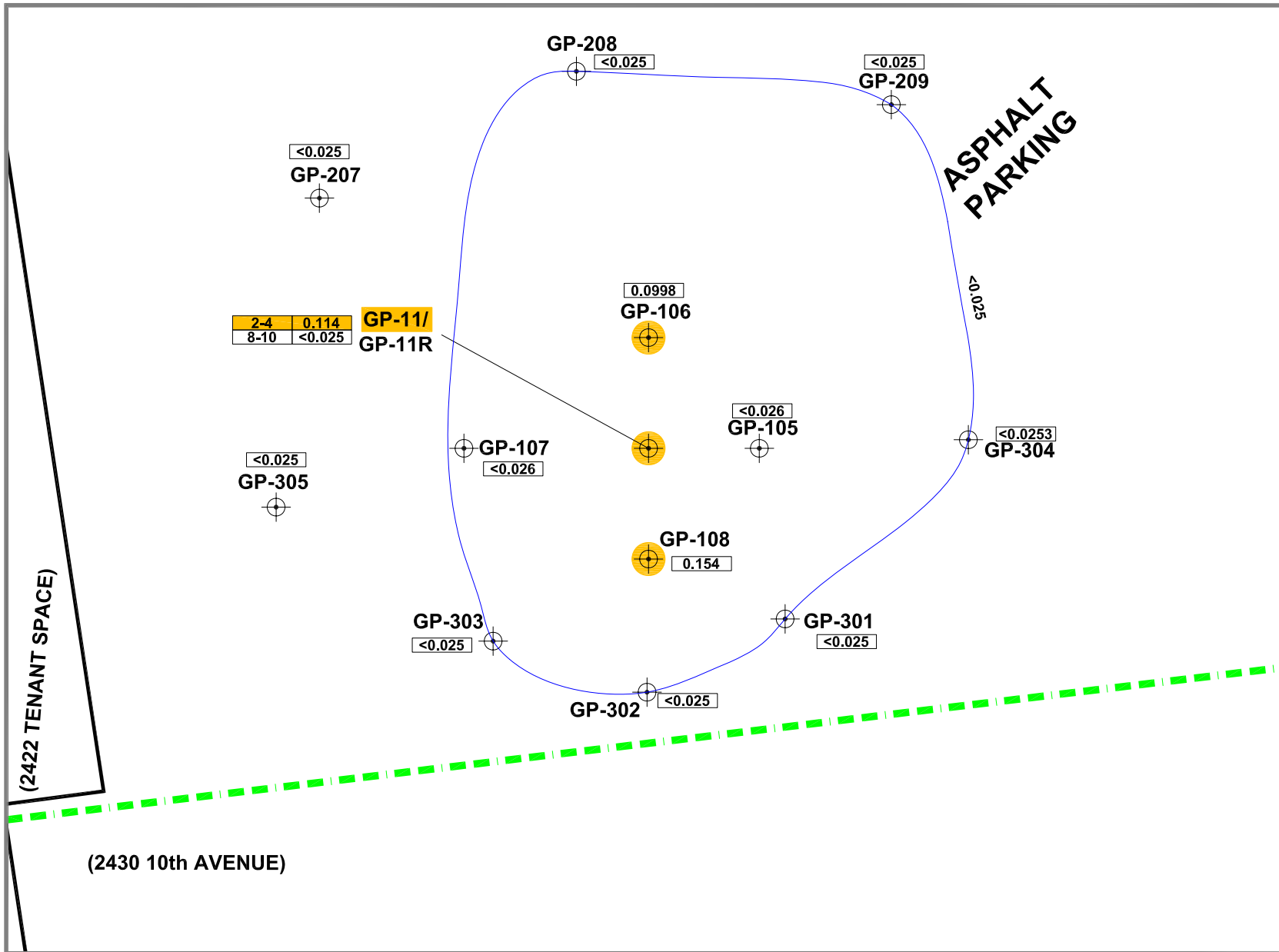
**DAI**  
ENVIRONMENTAL

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

**FIGURE B.2.a.1.a**  
**SOUTHERN SITE DETAIL SHOWING**  
**EXTENT OF PAH SOIL CONTAMINATION**  
**(2-FEET TO 4-FEET BGS)**







**LEGEND**

APPROXIMATE PROPERTY BOUNDARY

(2410) UNIT ADDRESS

SOIL BORING LOCATION

BENZENE EXCEEDANCE OF THE GROUNDWATER RCL (OBSERVED AT 2-FEET TO 4-FEET BGS)

BENZENE CONCENTRATION (mg/Kg) AT 2-FEET TO 4-FEET BGS, EXCEPT AS NOTED

ISOCONCENTRATION LINE (<0.025-mg/Kg)

NOTE: LIMIT OF DETECTION DEPICTED AS APPLICABLE GROUNDWATER RCL PER NR 720.07(2)(d)(1)

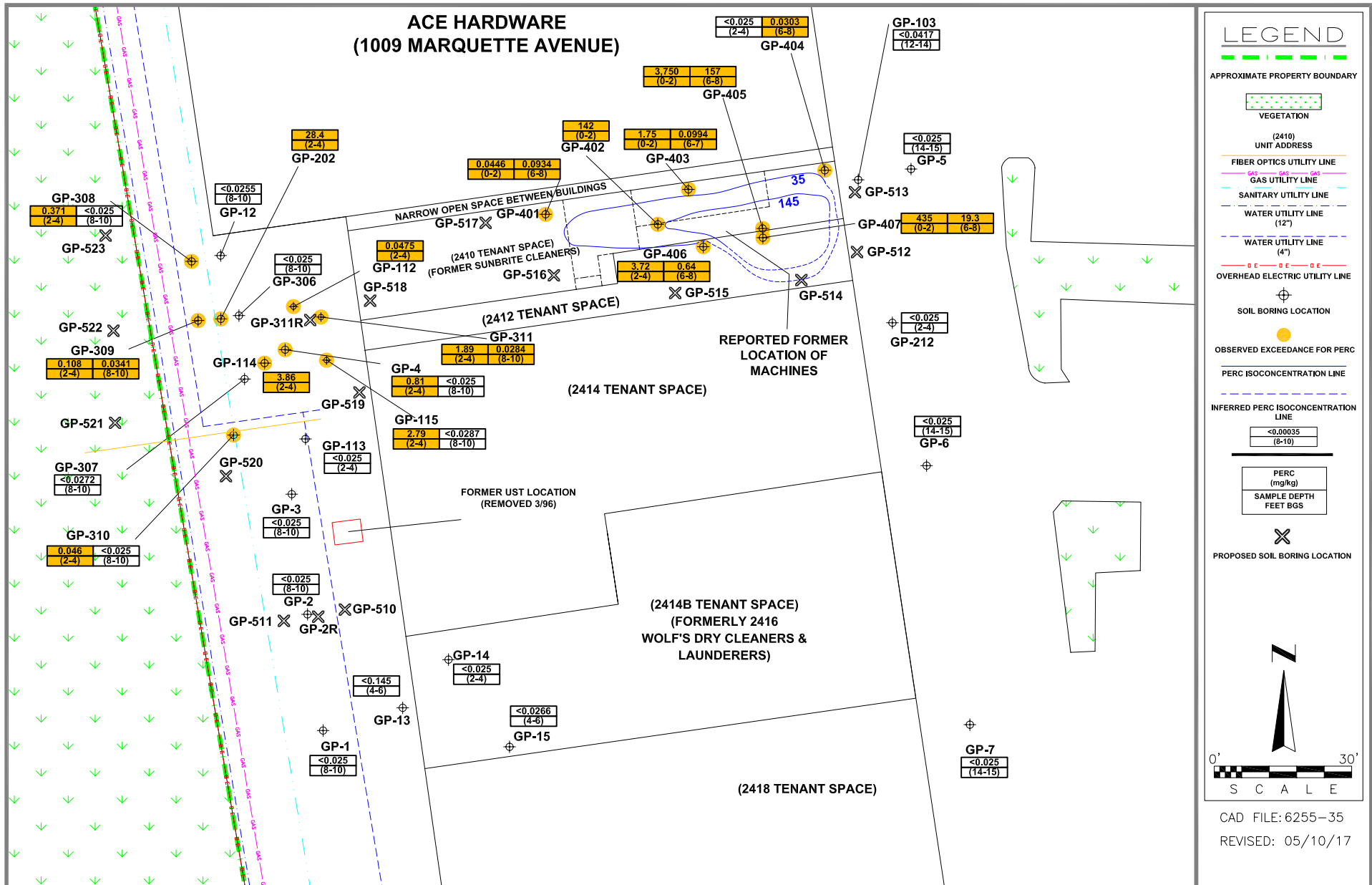
0' 20'  
SCALE

CAD FILE: 6255-37  
REVISED: 05/10/17

**DAI**  
ENVIRONMENTAL

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

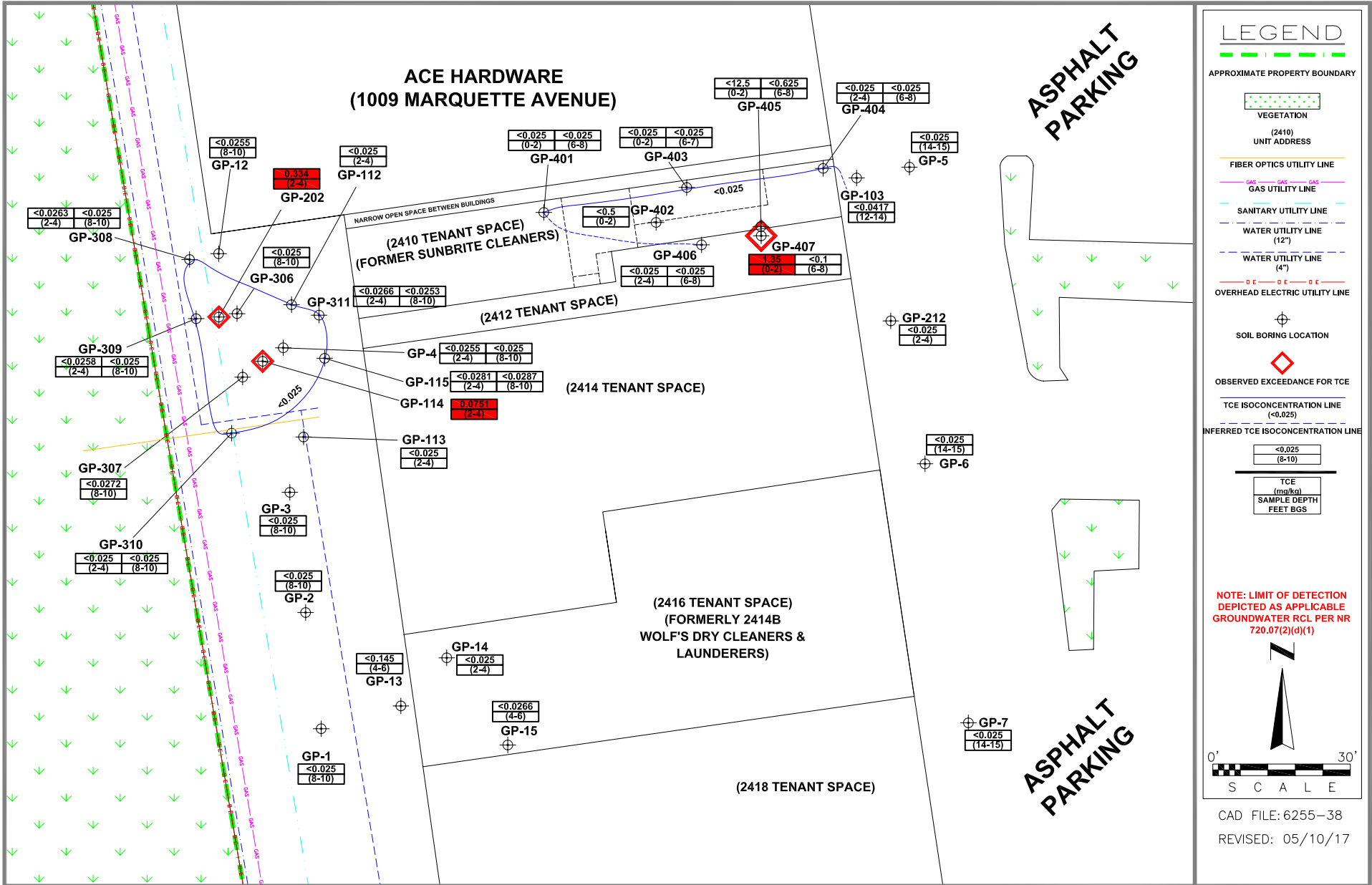
FIGURE B.2.a.2.a  
SOUTHERN SITE DETAIL SHOWING  
EXTENT OF BENZENE SOIL CONTAMINATION  
(2-FEET TO 4-FEET BGS)



**DAM**  
ENVIRONMENTAL

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

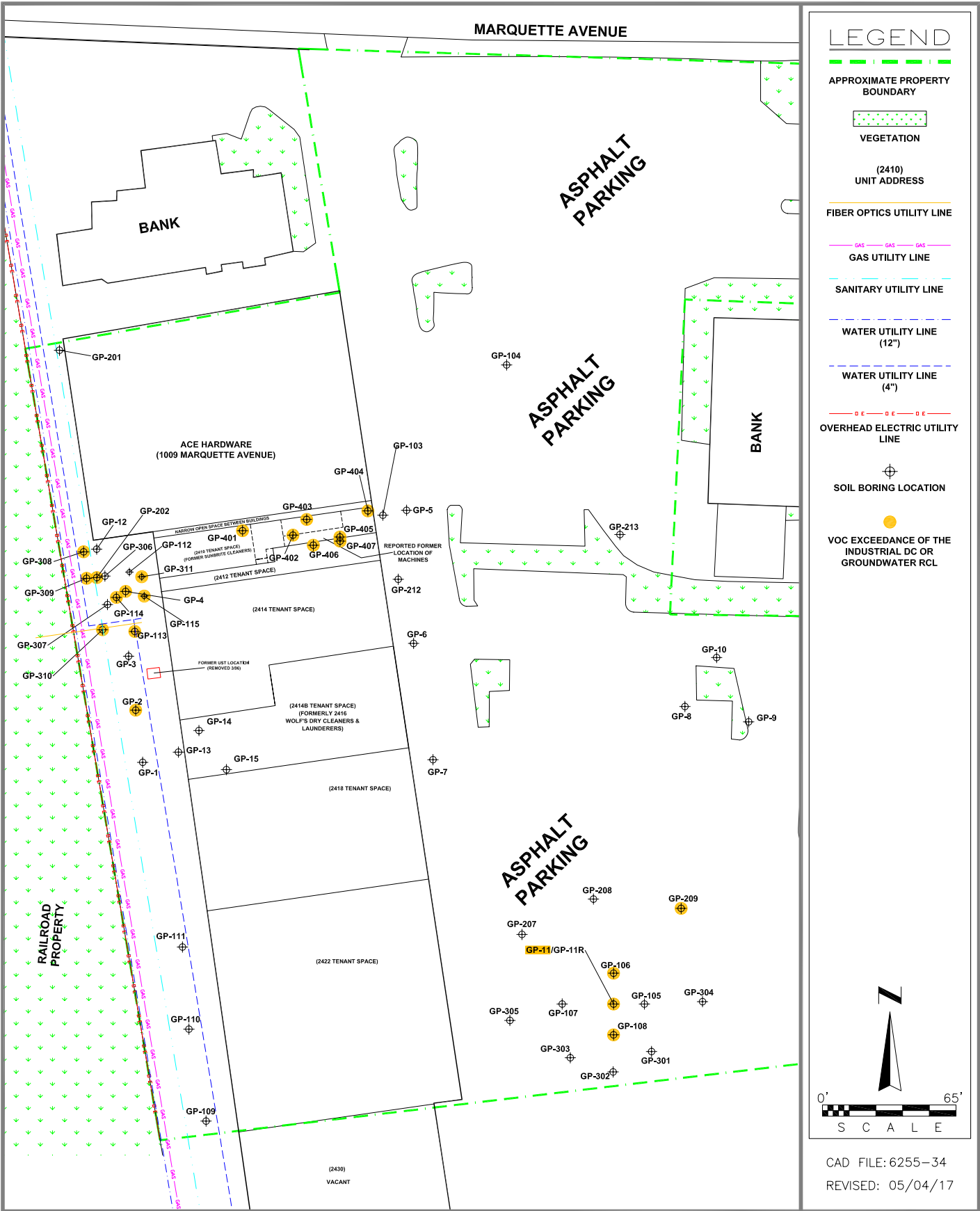
**FIGURE B.2.a.2.b  
FORMER DRYCLEANER DETAIL DETAIL SHOWING  
EXTENT OF PERC SOIL CONTAMINATION**



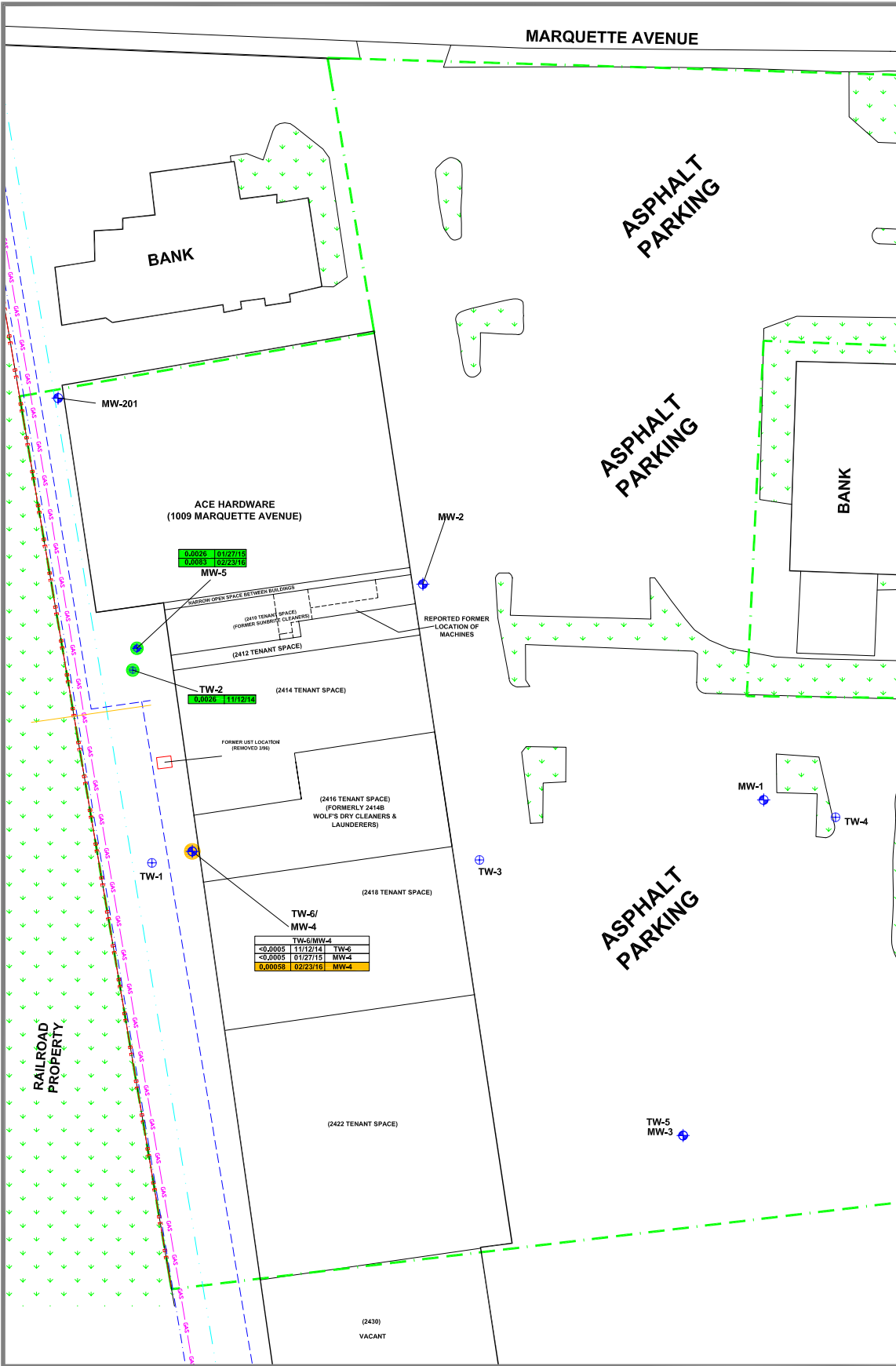
**DAI**  
ENVIRONMENTAL

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

FIGURE B.2.a.2.c  
FORMER DRYCLEANER DETAIL DETAIL SHOWING  
EXTENT OF TCE SOIL CONTAMINATION









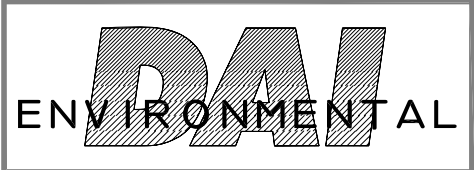
### LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS 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 EXCEEDANCE FOR BENZENE

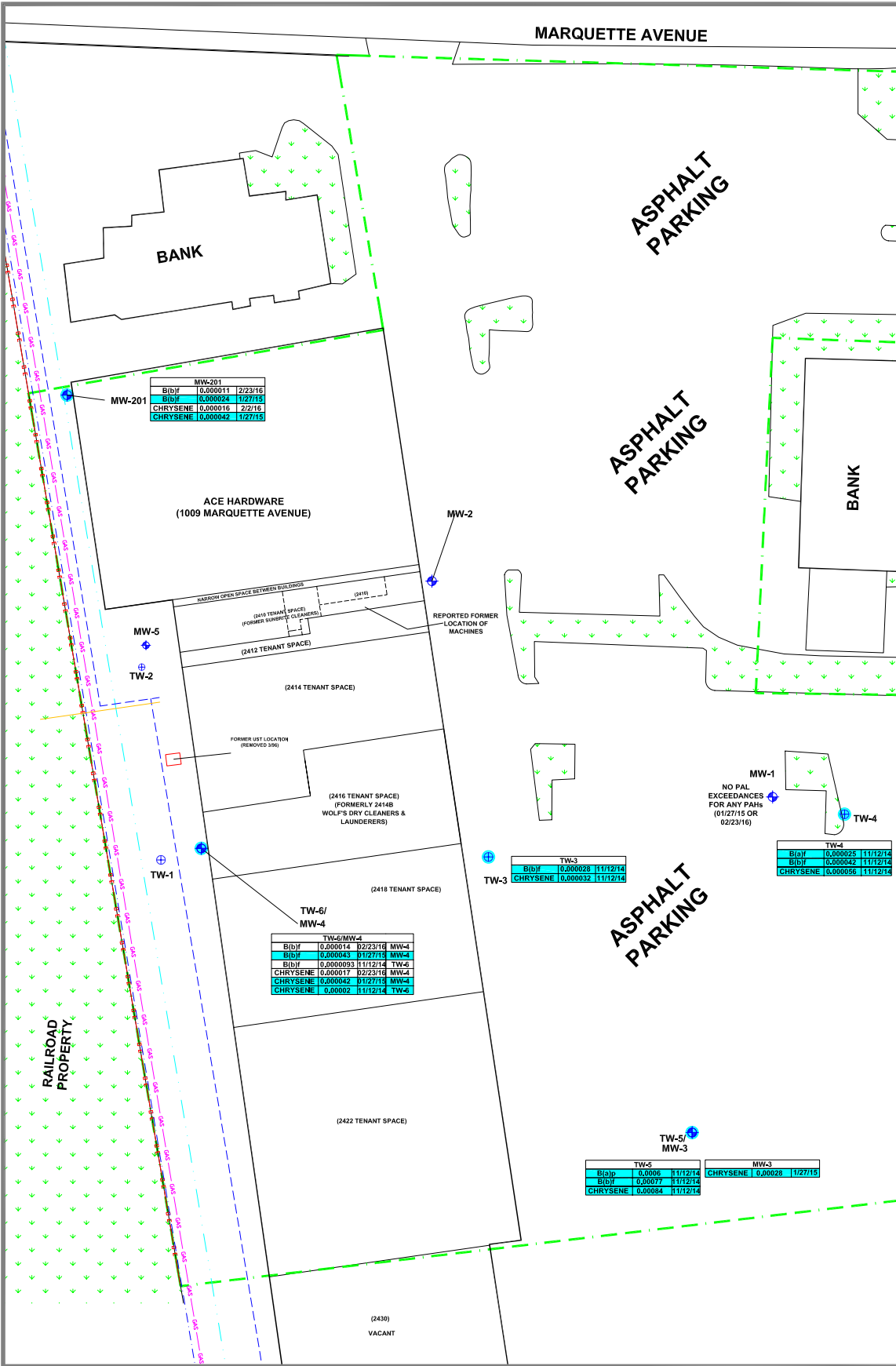
SCALE

CAD FILE: 6255-40  
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**SUNRISE SHOPPING CENTER**  
 2410-2424 10TH AVENUE  
 1009 MARQUETTE AVENUE  
 SOUTH MILWAUKEE, WISCONSIN

**FIGURE B.3.b.1**  
**GROUNDWATER**  
**ISOCONCENTRATION**  
**FOR PERC AND BENZENE**



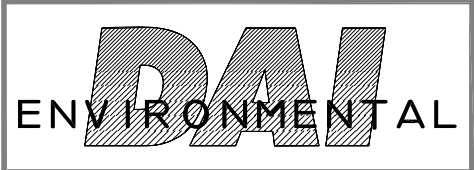
### LEGEND

- 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 PAHs

0' 65'

S C A L E

CAD FILE: 6255-39  
REVISED: 05/09/17



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

**FIGURE B.3.b.2**  
**GROUNDWATER**  
**ISOCONCENTRATION**  
**FOR PAHs**