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City of Wauwatosa  
Community Development Department  
725 West North Avenue  
Wauwatosa, Wisconsin 53213

## PHASE II ENVIRONMENTAL SITE ASSESSMENT 2578 Wauwatosa Avenue Wauwatosa, Wisconsin

Parcel Ids: 331079200  
33179300

March 14, 2014  
Symbiont Project No. W121218



Prepared for:

City of Wauwatosa  
Community Development Department  
7725 West North Avenue  
Wauwatosa, Wisconsin 53213

## Phase II Environmental Site Assessment

2578 Wauwatosa Avenue Property  
Wauwatosa, Wisconsin

Symbiont Project No. W121218  
March 14, 2014

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## **Section 1.0 INTRODUCTION**

This Phase II Environmental Site Assessment (ESA) Report documents the environmental investigation of the property located at 2578 Wauwatosa Avenue in the City of Wauwatosa, Wisconsin (hereinafter referred to as the “Site” or “Property”). This ESA was completed by Symbiont in compliance with a Site-Specific Sampling and Analysis Plan (SAP) prepared on behalf of the City of Wauwatosa by Symbiont (2014b) and approved by the United States Environmental Protection Agency (USEPA) in an email correspondence dated January 22, 2014 and in compliance with the Quality Assurance Project Plan (QAPP; Symbiont, 2012).

The Phase II ESA was conducted using funding provided through a USEPA Community-Wide Brownfield Site Assessment Grant for Hazardous Substances awarded to the City of Wauwatosa from the USEPA (Cooperative Agreement Number BF-00E01045).

The Site location and local topography is illustrated on Figure 1. As shown on Figure 2, the Site consists of a single parcel of commercial land located at 2578 Wauwatosa Avenue, Wauwatosa, Wisconsin. The building is adjoined by a paved parking area, a paved driveway, and streets.

The primary purpose of the Phase II ESA was to assess recognized environmental conditions (REC) and other potential environmental concerns (PEC) associated with the property that were identified in a Phase I ESA (Symbiont, 2014a) completed by Symbiont for the Site.

Supporting documentation presented within the appendices includes:

- Photographs documenting Phase II ESA field activities (Appendix A).
- Soil boring logs (Appendix B).
- Laboratory analytical reports and chain-of-custody documentation (Appendix C).
- Container Inventory (Appendix D).

**Section 2.0  
BACKGROUND INFORMATION**

**2.1 SITE LOCATION AND LEGAL DESCRIPTION**

The Site is located at 2578 Wauwatosa Avenue in the City of Wauwatosa and consists of a single parcel of land located at the southeast corner of Wauwatosa Avenue and West Clark Street. A plat map generated from the City of Wauwatosa Brownfields GIS Database illustrating the Site location relative to adjacent properties is illustrated on Figure 2. The Site is described as follows:

Tax ID	Parcel Description	Lot Size (acres)
331079200	KELLERS SUBD LOT 7 EXC E 4 FT THEREOF & N 3 FT OF LOT 8 EXC E 4 FT THEREOF BLK 2 SW 1/4 SEC 15	0.11

**2.2 PREVIOUS SITE ASSESSMENT ACTIVITIES**

Previous Site assessment activities include a January 2014 Phase I ESA, a January 2014 Sampling and Analysis Plan (SAP), and a Site specific Health and Safety Plan (HASP). Details of each report are provided in the following sections.

**2.2.1 Phase I Environmental Site Assessment**

A Phase I ESA report completed by Symbiont at the Site on January 13 (2014a) identified three RECs associated with the Property.

**REC 1:**

A dry cleaning facility operated at the Site for more than 40 years. Several spills/releases of dry cleaning solvents have been documented, and were noted to have occurred in the basement (the floor was said to be in poor condition at the time) and around the exterior Site building. The spills/releases have not been investigated or reported to the appropriate regulatory agencies.

**REC 2:**

Several containers, 30-gallon fiber drums, and pails were observed in the basement. Several fiber drums potentially contained rust remover while others were not labeled. Various small containers, 1-gallon metal containers, and 5-gallon pails of hazardous substances or petroleum products were observed in the basement. However, the contents of several of the containers could not be confirmed. Most of the containers, fiber drums, and pails were in very poor condition and generally situated on the basement floor which is in very poor condition. In addition a sump is located in the basement. Based on the condition of the floor, the presence of a sump, and the condition of the containers, drums, and pails, a release of hazardous substances and/or petroleum products may have occurred.

### **REC 3:**

A 250-gallon fuel oil above-ground storage tank (AST) is located near the northwest corner of the basement; the concrete floor beneath and surrounding the AST is in very poor condition. The fill port and vent pipe associated with the AST were observed on the exterior of the Site building. The ground surface surrounding the building at the time of the reconnaissance was snow covered; therefore, staining or other obvious indications of a former spill/release associated with filling of the AST could not be confirmed.

### **2.3 PHASE II ESA SCOPE OF WORK**

The main objective for performing the Phase II ESA was to evaluate RECs identified in the Symbiont (2014a) Phase I ESA. Specifically, the purpose of the assessment is to confirm the presence of petroleum products and/or hazardous substances at the property in conditions that constitute disposal or release, or provide sufficient information to render a professional opinion that there is no reasonable basis to suspect the presence of hazardous substances or petroleum products at the property. Based on the level of due diligence investigations completed to date, the scope of work was designed mainly to:

- Test soil and or groundwater at select locations for the presence of the most frequently occurring types of contaminants,
- Provide some basis for assessing the location, thickness, and quality of fill materials, if any, at the site, and
- Document the elevation of shallow groundwater.

The scope of work for the Phase II ESA investigation included:

- Collection and descriptive logging of soil at eight (8) boring locations. The depths of the borings ranged from six (6) to 15 feet below ground surface;
- Field screening of near-surface soil samples in each boring at approximate 0.5-foot intervals and field screening of soil samples at depth in each boring at approximate two-foot depth intervals using a photoionization detector (PID);
- Laboratory analysis of select soil samples for the presence of volatile organic compounds (VOCs; 17 samples plus one field duplicate and trip blank) and polycyclic aromatic hydrocarbons (PAHs; four samples plus one field duplicate).
- Surveying of soil boring locations using laser level survey equipment.
- Completion of eight soil borings as temporary 1-inch diameter polyvinylchloride (PVC) groundwater monitoring wells in general compliance with ch. NR 141 Wisconsin Administrative Code (WAC);
- Measurement of water levels investigation of the presence of and free-phase light non-aqueous phase liquid (LNAPL);

- Development, and sampling of the temporary groundwater monitoring wells;
- Laboratory analysis of groundwater samples for the presence of VOCs (eight samples plus one field duplicate and one trip blank) and PAH compounds (eight samples plus one field duplicate)
- Surveying of temporary well locations using laser level survey equipment.

As noted in Section 1, this work was completed in compliance with a Site-Specific SAP and QAPP prepared on behalf of the City of Wauwatosa by Symbiont (2014b and 2012, respectively) and approved by the USEPA.



## **Section 3.0 METHODS OF INVESTIGATION**

This section documents the methods of investigation used by Symbiont to perform the field and laboratory portions of the Phase II ESA. As noted in Section 1, this work was completed in compliance with a Site-Specific SAP and QAPP prepared on behalf of the City of Wauwatosa by Symbiont (2014b and 2012, respectively) and approved by the USEPA. Photographic documentation of the Phase II ESA activities is provided in Appendix A.

### **3.1 HYDRAULIC PROBE SOIL SAMPLING**

Hydraulic probe soil sampling was conducted at the Site on January 30, 2014, by Horizon Construction and Exploration of Grafton, Wisconsin under the supervision of Symbiont personnel. Sampling was conducted at eight (8) boring locations (SB/TW-1, through SB/TW-8) to depths ranging from 6 to 15 feet below ground surface (bgs), depending on site access. Soil borings were advanced using a truck-mounted or hand cart-mounted Geoprobe® using five (5) feet cores. Soil samples were collected continuously from the ground surface to the bottom of the soil borings providing a complete sampling of all soil horizons/units present at each boring location.

All probe drilling rods and soil sampling equipment were clean when brought on Site and were cleaned between each drill site. Hydraulic probe sampling barrels were decontaminated with an Alconox™ equivalent wash and water rinse prior to the collection of each soil sample. New disposable plastic “sleeve” liners were used for collection of each soil sample to prevent cross contamination of soil samples.

Soil samples were visually and physically examined by Symbiont field geologists, and observations made of the general soil type, any visible layering, evidence of non-native fill materials (with estimated percentages of these materials contained in the soil matrix), indications of chemical or other staining, odors, and any other distinctive features. Such pertinent observations are documented on the soil boring logs provided in Appendix B.

Investigative wastes generated during the soil sampling were collected in a Department of Transportation (DOT)-approved 55 gallon drum, sealed, labeled, and stored on site pending the completion of laboratory analysis and determination of disposal restrictions. As appropriate, waste soil cuttings will be handled, transported, and disposed of by a licensed waste hauler in accordance with federal and state requirements.

### **3.2 FIELD SCREENING OF SOIL SAMPLES FOR VOCs**

Portions of the soil from approximately every 0.5-foot interval of near-surface soils and portions of the soil from approximately every 2-foot interval of soils at depth were field screened for the presence of VOCs using a PID calibrated to a 100 parts per million Isobutylene calibration standards. Approximately 3-6 inches of soil core from each depth interval were placed into Zip-Lock storage bags, sealed, labeled, and stored for a period of approximately one-half hour. The samples were tested by piercing the side of each Zip-Lock bag with the tip of the PID probe and

then recording the maximum meter reading within an approximate five (5) second interval. Measurements of apparent VOC concentrations in the ambient air (i.e., background readings) were also made prior to each sample reading. Both the background and the sample PID meter readings were recorded in the field notebook. The sample PID meter readings are included on the soil boring logs presented in Appendix B.

### **3.3 INSTALLATION AND DEVELOPMENT OF TEMPORARY GROUNDWATER MONITORING WELLS**

Temporary one-inch diameter schedule 40 polyvinyl chloride (PVC) wells with 10-foot long 10-slot (0.010-inch) screens were installed in each of the eight (8) soil boring locations (SB/TW-1 through SB/TW-8). Filter sand was placed in the annular space between the borehole wall and the outside of each screen. The annular space above the filter pack was filled to the ground surface with granular bentonite to serve as a seal to prevent filtration of surface water runoff into the borings which would potentially compromise the integrity and representativeness of the groundwater sample. The locations of the wells are illustrated on Figure 2. As appropriate, well construction diagrams are presented on the soil boring logs provided in Appendix B.

After completion, the wells were purged of a minimum of three well volumes with dedicated disposable bailers to develop the wells prior to groundwater sample collection.

Investigative wastes generated during the well installation, development, and groundwater sampling were collected in a Department of Transportation (DOT)-approved 55 gallon drum, sealed, labeled, and stored on site pending the completion of laboratory analysis and determination of disposal restrictions. As appropriate, investigative wastes will be handled, transported, and disposed of by a licensed waste hauler in accordance with federal and state requirements.

### **3.4 SURVEY AND GROUNDWATER ELEVATION MEASUREMENTS**

Groundwater elevations were measured in the temporary wells by Symbiont personnel immediately following installation on January 30, 2014 using a Solenoid Water Level Meter. The top of the well casing elevation and ground surface elevation at each well location were surveyed on January 31, 2014 to within 0.01 feet using a laser level. Elevations were referenced to a temporary benchmark (BM-1), a manhole cover, located on West Clark Street near the northeast corner of the site. For the purpose of the Phase II ESA, the benchmark is assumed to have an elevation of 172.8 feet, obtained from the City of Wauwatosa. The horizontal location of each soil boring and monitoring well was measured utilizing existing Site features (ex. building corners, fence posts, etc.) for mapping purposes and are depicted to scale on Figure 2. The approximate depth to the water table and surveyed elevation data are shown on the soil boring logs in Appendix B.

### **3.5 SAMPLING AND LABORATORY ANALYSIS OF SOIL SAMPLES**

Selection of soil samples for laboratory analysis was based upon depth, presence of fill materials, moisture content, and field screening observations such as odor, color, and field measurements. Soil samples selected for analysis were placed directly into laboratory-supplied containers, preserved as appropriate, and immediately placed in a cooler on ice for shipping to Pace Analytical Services in Green Bay, Wisconsin under a chain of custody for analysis.

Soil sample analyses included VOCs (Method 8260) and PAHs (SW846 Method 8270SIM). One field duplicate soil sample [SB/TW-1 FD (13-14)] was submitted for VOC and PAH analysis. Based on field conditions, two soil samples from SB/TW-7, nearest the AST, were further analyzed for diesel range organics (DRO). In addition, one "Trip Blank" was submitted to the laboratory for VOC analysis. Laboratory analytical reports are presented in Appendix C. Laboratory analytical data are summarized on Table 1 and discussed in Section 4.1.

### **3.6 SAMPLING AND LABORATORY ANALYSIS OF GROUNDWATER SAMPLES**

As noted in Section 3.3, wells were purged and developed prior to groundwater sample collection. Groundwater samples collected for PAH analysis were collected using low-flow sampling techniques and samples were placed directly into laboratory supplied non-preserved amber colored sample jars. Groundwater samples collected for VOC analysis were collected using a disposable bailer and samples were placed directly into laboratory-supplied sample jars containing a hydrochloric acid preservative. Groundwater samples were immediately placed in a cooler on ice and shipped to Pace Analytical Services in Green Bay, Wisconsin under a chain of custody for analysis.

Select groundwater samples were analyzed for one or more constituents of concern, including VOCs (SW846 Method 8260) and PAHs (SW846 Method 8270SIM). Due to the conditions at the site, the groundwater sample for SB/TW-8 was only submitted for VOCs, as an adequate amount of water could not be obtained to submit a sample for PAHs. A trip blank was submitted for VOC analysis. Laboratory analytical reports are presented in Appendix C. Laboratory analytical data are summarized on Table 2 and discussed in Section 4.2.

### **3.7 ABANDONMENT OF SOIL BORINGS AND TEMPORARY WELLS**

Temporary monitoring wells SB/TW-1 through SB/TW-7 were abandoned by Symbiont on February 5, 2014 following the collection of groundwater samples. Temporary monitoring well SB/TW-8 was left in place as due to the low water volume/slow recharge rate and the potential need to resample the well if the lab had been unable to run analysis on the volume of water that was able to be collected at the time of sampling. On March 4, 2014, Symbiont abandoned temporary monitoring well SB/TW-8. To abandon and seal wells, the PVC well casing was removed, granular bentonite was placed by gravity in the borehole followed by water, and the surface repaired to match the surrounding area.

## **Section 4.0 PHASE II ESA RESULTS**

The general Site layout and soil/groundwater sample locations are depicted to scale on Figure 2. Sample locations include eight (8) soil borings, which were completed as temporary groundwater monitoring wells. Groundwater elevation and other survey measurements for the eight (8) temporary groundwater monitoring wells are summarized in the soil boring logs in Appendix B. Photographs taken during the Phase II ESA are presented in Appendix A. Soil boring logs for borings completed during the Phase II ESA are found in Appendix B and include lithologic descriptions, field PID readings, visual and olfactory indications of impacts, Unified Soil Conservation Service soil classifications, and temporary monitoring well construction details. Laboratory analytical results for soil and groundwater are presented in Appendix C and are summarized in Tables 1 and 2, respectively.

### **4.1 GENERAL SITE CONDITIONS**

The Site is presently vacant; however, several items related to the former dry cleaning operations exits in the building. Cleaning machines were observed on the east side of the first floor. Symbiont observed multiple 30-gallon fiber drums in the basement; those that had decipherable labels contained rust removers. Several other fiber drums were observed; however, the labels were too deteriorated to read. Various other metal or plastic 5-gallon pails and containers of 1-gallon or less in capacity were also observed in the basement, many of the labels appeared to be deteriorated and the contents could not be confirmed. At least two 1-gallon metal containers of paint stripper were observed and the containers were in very poor condition. The majority of the containers and drums were situated on the basement floor. The floor appears to be concrete; however, at the time of the Site reconnaissance the floor was in very poor condition. Much of the floor was completely deteriorated. A sump was observed in the basement. The sump was covered at the time of the site reconnaissance and thus the inside of it could not be observed. A Container Inventory Table is provided in Appendix D.

### **4.2 SOIL CONDITIONS**

#### **Physical**

Soil borings at the Site were extended to depths ranging from six (6) to 15 feet bgs. Soil stratigraphy identified during the investigation is described in the boring logs in Appendix B.

The general soil stratigraphy at the Site consists of an asphalt or concrete surface at most borings. The asphalt or concrete is underlain by silty clay and some intermittent sand trace sand to the boring terminus in SB/TW-1 (15 feet bgs), SB/TW-3 (6 feet bgs), SB/TW-7 (6 feet bgs), and SB/TW-4 (15 feet bgs).

Silty clay was encountered from beneath the concrete/asphalt to a depth of approximately 2.5 feet bgs in SB/TW-2, SB/TW-5, and SB/TW-6. The silty clay was underlain by clay to the boring terminus in SB/TW-6 (15 feet bgs), and to approximately 10 feet bgs in soil borings SB/TW-2, SB/TW-5, and SB/TW-10. Approximately three feet of clayey sand was identified

beneath the clay in SB/TW-2, SB/TW-5, and SB/TW-10. Clay was encountered from approximately 13 feet bgs to the boring terminus of 15 feet bgs in these borings.

There were no significant (greater than 0 instrument units (IU)) PID measurements for soil samples collected from soil borings SB/TW-1, SB/TW-2, SB/TW-3, and SB/TW-8. Elevated PID measurements were detected in soil samples collected from SB/TW-3, SB/TW-5, SB/TW-6, and SB/TW-7. The measurements ranged from 2.2 IU to 117.5 IU. The borings and sample depths for the elevated PID readings are documented on the soil boring logs. In addition to elevated PID readings, a petroleum odor was detected in SB/TW-7.

## **Chemical**

As noted in Section 3.5, soil samples were analyzed for VOCs and PAHs. Based on field observations and the presence of petroleum odor, two soil samples from SB/TW-7 were also submitted for DRO analysis. Table 1 and Figure 4 present a summary of results for soil samples collected compared to the non-industrial residual contaminant level (RCL) and the groundwater protection pathway RCL per ch. NR 720 WAC (December 2013 Update) as summarized below.

### *VOCs*

A total of 18 soil samples and one field duplicate soil sample were analyzed for VOCs. As noted in Table 1, 16 samples contained tetrachloroethene greater than applicable ch. NR 720 WAC groundwater protection pathway RCL. Of these soil samples, two contained tetrachloroethene at concentrations greater than the ch. NR 720 WAC direct contact RCL. 30.7 milligrams per kilogram (mg/kg), which was exceeded in soil samples SB/TW-5 (7.5-8.0) and SB/TW-6 (10.0-10.5).

In addition to tetrachloroethene, two of the soil samples SB/TW-5 (7.5-8) and SB/TW-6 (10-10.5) contained other detectable VOCs greater than applicable ch. NR 720 WAC groundwater protection pathway RCLs.

### *PAHs*

A total of four (4) soil samples and one field duplicate were analyzed for PAHs. Concentrations were generally less than the applicable RCLs. However, benzo(a)pyrene was detected at a concentration of 61 micrograms per kilogram (ug/kg) in SB/TW-3 (0.0-0.5) which is above its ch. NR 720 WAC direct contact RCL of 15 ug/Kg.

### *DRO*

A total of four (4) soil samples from the borings located in the basement, were analyzed for diesel range organics (DRO). The WDNR no longer has established RCLs for DRO in soil. However, DRO was detected at concentration of 1,050 mg/kg in SB/TW-7 (0.5-1.5). DRO was not detected in concentrations above the laboratory analytical method detection limits in the other three (3) samples.

## QA/QC

As noted on Table 1, a field duplicate sample was collected at SB/TW-2 (2-3) and submitted to the laboratory for VOC and PAH analysis. VOCs and PAHs were not detected in the duplicate sample. However, tetrachloroethene was detected in the primary sample. As documented in Appendix C, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) sample results were within the specified range of the analytical method.

## 4.3 GROUNDWATER CONDITIONS

### Physical

Water elevation and survey measurements for wells are summarized in the soil boring logs in Appendix B. The water levels are presented relative to an arbitrary on-site benchmark (BM-1) elevation of 172.8 feet.

Based on field observations and groundwater measurements the general gradient of shallow groundwater across the Site on January 31, 2014 appears to be south in the general direction of the Menomonee River. Shallow groundwater elevations could be influenced by the presence of paved surfaces, buildings, foundations, and/or subsurface anomalies. Table 3 and Figure 5 summarize the survey and groundwater level measurements for the Site.

### Chemical

Select groundwater samples were analyzed for VOCs and PAHs. Table 2 presents a summary of results for groundwater samples collected compared to ch. NR 140 WAC preventive action limits (PALs) and/or enforcement standards (ESs). The locations of the temporary monitoring wells are illustrated on Figures 2 and 4.

#### VOCs

Each of the eight groundwater samples contained detectable concentrations of VOCs. As noted in Table 2, all of the samples and the field duplicate had concentrations above ch. NR 140 WAC PALs of those; six were above ch. NR 140 WAC enforcement standards (ES). Tetrachloroethene was detected well above both the ES (5 ug/L) and PAL (0.5 ug/L) in seven of the eight sample locations.

#### PAHs

Groundwater samples were collected from eight locations and analyzed for PAHs. As noted on Table 2, all of the samples contained detectable concentrations of PAHs. Two locations (SB/TW-3 and SB/TW-4, had concentrations of PAHs above applicable ch. NR. 140 WAC PALs. Three additional locations (SB/TW-5, SB/TW-6, and SB/TW-8) had concentrations of PAHs above both the applicable PAL and ES. PAH concentrations are greatest along the southern property boundary.

## QA/QC

Trip blanks were utilized to evaluate cross-contamination occurring during sample shipment. VOCs were not detected in the "Trip Blank" submitted with groundwater samples. As noted in the laboratory report, the results conform to the most current NELAC institute standards and the laboratory's Quality Assurance Manual.

In addition, a field duplicate sample was collected at SB/TW-5 and submitted to the laboratory for VOC and PAH analysis. Concentrations of PAHs and VOCs above applicable ES and PAL were detected in the duplicate sample.

## 4.4 VAPOR INTRUSION

The term "vapor intrusion pathway" generally refers to subsurface contamination that can move through the air-filled pores of vadose zone soils and enter the breathing space of buildings. Vapor intrusion "pathway screening" is used to determine whether or not the potential for vapor intrusion exists on or off a contaminated property.

Although no free phase product was detected at the Site during soil boring and groundwater sampling, VOCs, including tetrachloroethene, were detected at concentrations above the ES and/or PAL in groundwater, and above soil to groundwater pathway and/or direct contact RCLs in soil. WDNR notes that due to their high volatility and health risk, VOCs, particularly chlorinated VOCs and petroleum, are the contaminants that most commonly trigger assessment of the vapor intrusion pathway. The WDNR guidance document indicates that the vapor intrusion pathway should be investigated at "*all source properties where a release of chlorinated VOCs has occurred.*" The following screening criteria apply to developed properties as well as to undeveloped properties.

1. Any building overlying a chlorinated VOC soil source.
2. Any building within 100 feet of a chlorinated soil source.
3. Any building overlying a chlorinated groundwater plume located at the water table with groundwater concentrations above Wisconsin's groundwater ESs.
4. Chlorinated VOC contaminated groundwater above Wisconsin groundwater PALs is entering a building or in contact with the buildings foundation, or is in water intercepted by the building's foundation drain system, including sumps.
5. Chlorinated VOC vapors have the potential to enter preferential pathways that connect contaminated areas to a building and migrate into that building.

Based on WDNR guidance this Site meets screening criteria 1, 2, 3, 4, and 5, and as such, the potential for vapor intrusion at the site exists.

## Section 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II ESA, the following conclusions and recommendations are made.

### 5.1 CONCLUSIONS

#### Site Geology and Hydrogeology

The general soil stratigraphy on the Site consists of an asphalt or concrete surface at most borings. The asphalt or concrete is underlain by silty clay and some intermittent sand trace sand to the boring terminus in SB/TW-1 (15 feet bgs), SB/TW-3 (6 feet bgs), SB/TW-7 (6 feet bgs), and SB/TW4 (15 feet bgs).

Silty clay was encountered from beneath the concrete/asphalt to a depth of approximately 2.5 feet bgs in SB/TW-2, SB/TW-5, and SB/TW-6. The silty clay was underlain by clay to the boring terminus in SB/TW-6 (15 feet bgs), and to approximately 10 feet bgs in soil borings SB/TW-2, SB/TW-5, and SB/TW-10. Approximately three feet of clayey sand was identified beneath the clay in SB/TW-2, SB/TW-5, and SB/TW-10. Clay was encountered from approximately 13 feet bgs to the boring terminus of 15 feet bgs in these borings.

#### Soil Quality

Concentrations VOCs were greater than the soil to groundwater pathway RCLs and/or the non-industrial direct-contact RCLs in one or more soil samples. Therefore, VOCs represent constituents of concern for soils at the Site.

Concentrations of select PAHs in soil were greater than applicable non-industrial direct contact RCLs. Therefore, PAHs are considered constituents of concern for soils at the Site.

#### Groundwater Quality

VOCs were detected in groundwater at concentrations greater than applicable PALs and ESs at several temporary monitoring well locations. Therefore, these VOCs are considered constituents of concern for groundwater at the Site.

The concentrations of PAHs in Site groundwater were greater than applicable ch. NR 140 WAC PALs and/or ch. NR 140 WAC ESs. Therefore, these PAHs are considered constituents of concern for groundwater at the Site.

#### Vapor Intrusion

Based on WDNR guidance, the Site meets vapor intrusion screening criteria; therefore vapor intrusion has the potential to be a threat at the site.



## 5.2 RECOMMENDATIONS

Impacts to soil and groundwater were identified at concentrations greater than applicable standards and guidelines. Based on the results of the Phase II ESA, the WDNR should be notified of the apparent historic release(s) per the Wisconsin Spills Law (ch. NR 706 WAC). The source(s), magnitude and extent of the identified release(s) should be further evaluated per ch. NR 716 WAC requirements. Additionally, soil and groundwater samples, including off-site sampling, should be completed. Vapor intrusion pathway at the site should be investigated with sub-slab and ambient air samples.

Appropriate due care should be exercised to protect the public and may include continued maintenance of the building and pavement areas to minimize potential direct contact with impacted soil, groundwater, and vapor. Soil and groundwater may require special handling if exposed as part of intrusive activities (e.g., construction, dewatering). In addition, it may be appropriate to restrict groundwater use.

Interested parties may wish to retain legal counsel in this matter as Symbiont is not qualified to provide legal advice.

## **Section 6.0 LIMITATIONS**

The Phase II ESA was performed in accordance with generally accepted practices for the environmental consulting profession, undertaking similar studies at the same time and in the same geographical area as the work conducted by Symbiont. Symbiont observed the degree of care and skill that are generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Symbiont's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based upon our professional judgment concerning the significance of the data gathered during the course of this investigation. Specifically, Symbiont cannot represent that the Property contains any hazardous or toxic materials or other latent conditions beyond that observed by Symbiont during the course of the investigation. Additionally, due to limitations of the investigation process and the necessary use of data furnished by others, Symbiont and its subcontractors cannot assume liability if actual conditions differ from the information presented in this report.

**Section 7.0**  
**REFERENCES**

Symbiont, 2012, City of Wauwatosa, Wisconsin Quality Assurance Project Plan 2012/2013 Annual Review and Update (Original Approval Date: September 30, 2010), USEPA Brownfields Assessment Grant for Hazardous Substances (USEPA Cooperative Agreement No. 00E01045), December 21, 2012.

Symbiont, 2014a, Phase I Environmental Site Assessment, 2578 Wauwatosa Avenue, Wauwatosa, Wisconsin, January 14, 2014.

Symbiont, 2014b, Sampling and Analysis Plan, 2578 Wauwatosa, Avenue, Wauwatosa Wisconsin, January 28, 2014.

## TABLES

1. Soil Chemistry Data
2. Groundwater Chemistry Data
3. Survey and Groundwater Elevation Data

## 1. Soil Chemistry Data

Table 1  
Detected Constituents in Soil  
Phase II ESA  
2578 Wauwatosa Avenue  
Wauwatosa, Wisconsin

Constituent	Soil to Groundwater Pathway RCL	Non-Industrial Not-To-Exceed Direct Contact RCL	SB/TW-1		SB/TW-2			SB/TW-3		SB-4 (1-1.5)			SB/TW-5		SB/TW-6		SB/TW-7		SB/TW-8	
			SB-1 (3-4)	SB-1 (7-8)	SB-2 (2-3)	SB-2 (2-3) FD	SB-2 (7-8)	SB-3 (0-0.5)	SB-3 (3-4)	SB-4 (0-0.75)	SB-4 (1-1.5)	SB-4 (7-8)	SB-5 (3.5-4)	SB-5 (7.5-8)	SB-6 (2.5-3)	SB-6 (10-10.5)	SB-7 (0.5-1.5)	SB-7 (3-4)	SB-8 (3-4)	SB-8 (7.5-8)
			1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014	1/30/2014
Diesel Range Organics (DRO)	NE	NE	NA	NA	NA	NA	NA	<0.93	<b>1.9J</b>	NA	NA	NA	NA	NA	NA	NA	<b>1,050</b>	<0.91	NA	NA
PAHs (ug/kg)																				
1-Methylnaphthalene	NE	15,600	NA	NA	<3.5	<3.6	<3.4	<3.4	<3.4	NA	NA	NA	NA	NA	NA	NA	<b>2,820</b>	<3.3	<3.4	<3.5
2-Methylnaphthalene	NE	229,000	NA	NA	<9.9	<10.1	<9.6	<9.7	<9.6	NA	NA	NA	NA	NA	NA	NA	<b>3,070</b>	<9.4	<9.6	<9.8
Acenaphthene	NE	3,440,000	NA	NA	<9.9	<10.1	<9.6	<9.7	<9.6	NA	NA	NA	NA	NA	NA	NA	<b>455</b>	<9.4	<9.6	<9.8
Acenaphthylene	NE	NE	NA	NA	<9.9	<10.1	<9.6	<9.7	<9.6	NA	NA	NA	NA	NA	NA	NA	<b>116J</b>	<9.4	<9.6	<9.8
Anthracene	196,744.20	17,200,000	NA	NA	<9.9	<10.1	<9.6	<9.7	<9.6	NA	NA	NA	NA	NA	NA	NA	<b>228</b>	<9.4	<9.6	<9.8
Benzo(a)anthracene	NE	148	NA	NA	<9.9	<10.1	<9.6	<b>43.7</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Benzo(a)pyrene	235	15	NA	NA	<9.9	<3.6	<3.4	<b>61.1</b>	<3.4	NA	NA	NA	NA	NA	NA	NA	<36.2	<9.4	<9.6	<9.8
Benzo(b)fluoranthene	240	378	NA	NA	<9.9	<10.1	<9.6	<b>53</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Benzo(g,h,i)perylene	NE	NE	NA	NA	<9.9	<10.1	<9.6	<b>38.1</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Benzo(k)fluoranthene	NE	1,480	NA	NA	<3.5	<3.6	<9.6	<b>62.3</b>	<3.4	NA	NA	NA	NA	NA	NA	NA	<35.8	<3.3	<3.4	<3.4
Chrysene	72.5	14,800	NA	NA	<9.9	<10.1	<9.6	<b>60.7</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Dibenz(a,h)anthracene	NE	15	NA	NA	<9.9	<10.1	<9.6	<b>12.5J</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Fluoranthene	44,408.9	2,290,000	NA	NA	<9.9	<10.1	<9.6	<9.7	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Fluorene	14,800	2,290,000	NA	NA	<9.9	<10.1	<9.6	<8.9	<9.1	NA	NA	NA	NA	NA	NA	NA	<b>652</b>	<9.4	<8.6	<9.8
Indeno(1,2,3-cd)pyrene	NE	148	NA	NA	<9.9	<10.1	<9.6	<b>32.1</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<102	<9.4	<9.6	<9.8
Naphthalene	659	5,150	NA	NA	<9.9	<10.1	<9.6	<9.7	<9.6	NA	NA	NA	NA	NA	NA	NA	<b>406</b>	<9.4	<9.6	<9.8
Phenanthrene	NE	NE	NA	NA	<9.9	<10.1	<9.6	<b>10.7J</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	<b>1,540</b>	<9.4	<9.6	<9.8
Pyrene	54,500	1,720,000	NA	NA	<9.9	<10.1	<9.6	<b>58.6</b>	<9.6	NA	NA	NA	NA	NA	NA	NA	190J	<9.4	<9.6	<9.8
VOCs (ug/kg)																				
Ethylbenzene	785	7,470	<25	<62.5	<25	<25	<25	<b>135</b>	<25	<25	<25	<25	<25	<312	<30.1	<250	<125	<25	<25	<25
cis-1,2-Dichloroethene	20.6	156,000	<25	<62.5	<25	<25	<25	<b>41.9J</b>	<25	<25	<25	<25	<25	<312	<30.1	<250	<b>350J</b>	<b>1,480</b>	<25	<25
Isopropylbenzene (Cumene)	NE	268,000	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<b>209</b>	<25	<25	<25
m&p-Xylene	NE	NE	<50	<125	<50	<50	<50	<b>599</b>	<50	<50	<50	<50	<50	<625	<60.2	<500	<250	<50	<50	<50
Naphthalene	329.4	5,150	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<b>1,190</b>	<25	<25	<25
n-Butylbenzene	NE	108,000	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<b>1,260</b>	<25	<25	<25
n-Propylbenzene	NE	264,000	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<b>262J</b>	<25	<25	<25
o-Xylene	NE	434,000	<25	<62.5	<25	<25	<25	<b>197</b>	<25	<25	<25	<25	<25	<25	<30.1	<250	<250	<25	<25	<25
p-Isopropyltoluene	NE	162,000	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<30.1	<250	<b>772</b>	<25	<25	<25
sec-Butylbenzene	NE	145,000	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<30.1	<250	<b>1,130</b>	<25	<25	<25
Tetrachloroethene	2.30	30,700	<b>1,020</b>	<b>17,600</b>	<b>36.6J</b>	<25	<b>37</b>	<b>2,040</b>	<b>37.3J</b>	<b>5,970</b>	<b>1,130</b>	<b>2,820</b>	<b>5,160</b>	<b>76,600</b>	<b>504</b>	<b>66,000</b>	<b>217J</b>	<b>45.5J</b>	<b>79.1</b>	<25
Toluene	554	818,000	<25	<62.5	<25	<25	<25	<b>1,370</b>	<25	<25	<25	<25	<25	<312	<30.1	<250	<125	<25	<25	<25
Trichloroethene	1.60	644	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<125	<b>51.9J</b>	<25	<25
1,2,4-Trimethylbenzene	689.7	89,800	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<b>729</b>	<25	<25	<25
Total Xylenes	1,970	NE	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<30.1	<250	<125	<25	<25	<25
Vinyl chloride	0.07	670	<25	<62.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<312	<12	<250	<b>289J</b>	<b>360</b>	<25	<25

Notes:  
mg/kg = milligrams per kilogram  
ug/Kg = microgram per kilogram  
NA = Not analyzed  
NE = Not established  
PAH = Polycyclic Aromatic Hydrocarbons  
VOC = Volatile Organic Compounds  
RCL = Residual contaminant level  
SB = Soil boring  
J = Estimate concentration above the adjusted method detection limit and below the adjusted reporting limit  
< = Less than the method detection limit

SB- 1 (3-4)	= Soil boring location 1; Sample collected 3 to 4 feet below ground surface (bgs)
<b>0.1</b>	exceeds soil to groundwater
<b>670</b>	exceeds non-industrial direct contact RCL

## 2. Groundwater Chemistry Data





### 3. Survey and Groundwater Elevation Data

Table 3  
 Survey and Groundwater Depth  
 Phase II ESA  
 2578 Wauwatosa Avenue  
 Wauwatosa, Wisconsin

172.8	Casing	Casing Elevation	Surface	Surface Elevation	Casing Height	DTW	DTW bgs	Groundwater_Elevation (ft. bgs)	TD
<b>SB/TW-01</b>	8.68	181.48	6.13	178.93	2.55	11.31	8.76	170.17	14.96
<b>SB/TW-02</b>	5.6	178.4	5.28	178.08	0.32	12.24	11.92	166.16	14.49
<b>SB/TW-03</b>	1.89	174.69	0.46	173.26	1.43	2.9	1.47	171.79	5.07
<b>SB/TW-04</b>	10.32	183.12	7.42	180.22	2.9	5.49	2.59	177.63	19.5
<b>SB/TW-05</b>	6.56	179.36	6.33	179.13	0.23	6.6	6.37	172.76	12.61
<b>SB/TW-06</b>	6.83	179.63	6.53	179.33	0.3	10.87	10.57	168.76	14.2
<b>SB/TW-07</b>	1.66	174.46	0.38	173.18	1.28	2.27	0.99	172.19	5.09
<b>SB/TW-08</b>	7.7	180.5	7.27	180.07	0.43	12.09	11.66	168.41	14.15

Note:

172.8 = Benchmark elevation

TW = Temporary monitoring well

Ft = Feet

DTW = Depth to water table

bgs = below ground surface

TD = total depth

Horizontal locations are in feet based on the NAD 1927 State Plane Wisconsin South projection.

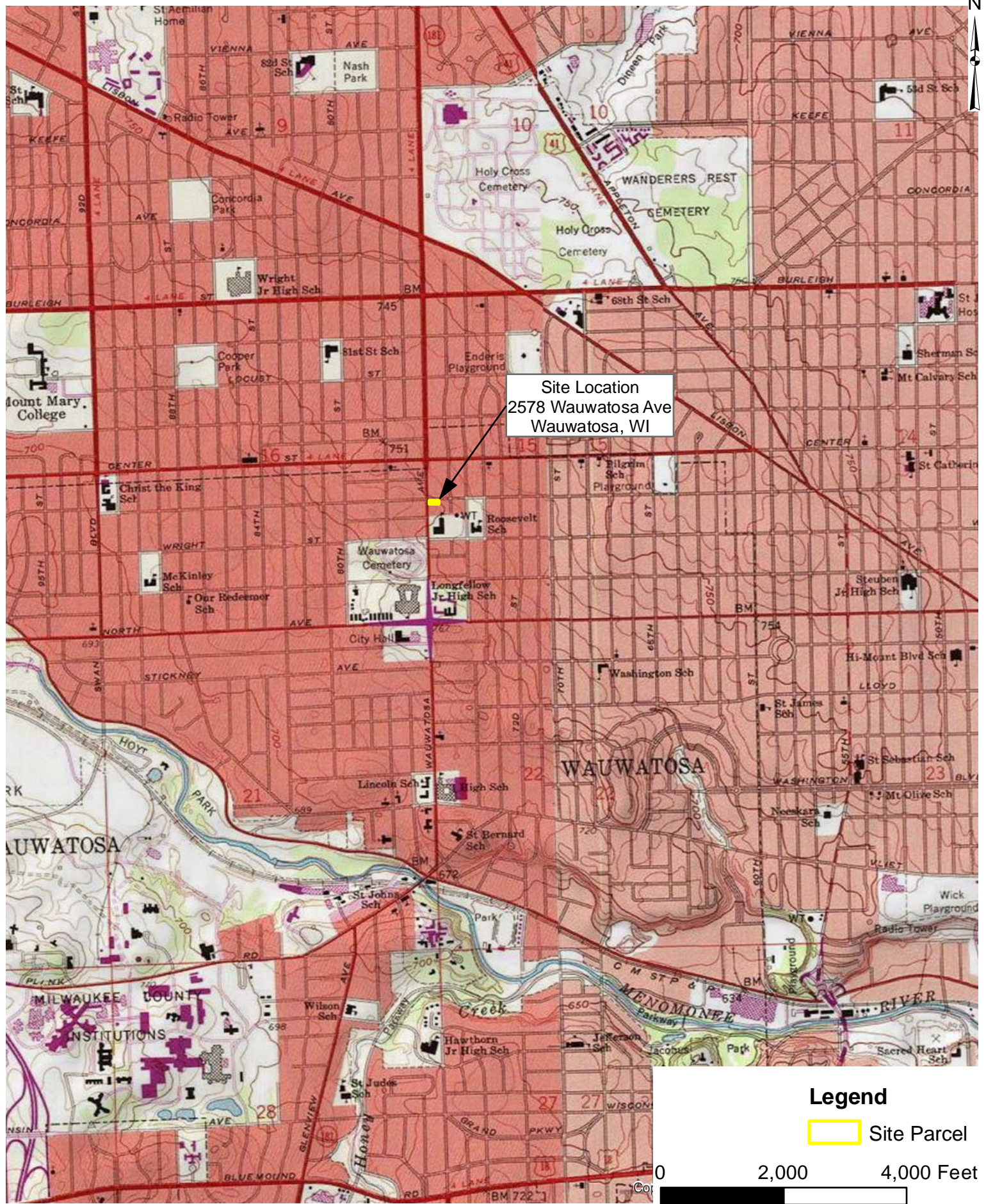
All elevations are in feet above mean sea level

All depth to water measurements are in feet to the nearest 0.01 foot

## FIGURES

Figure 1

Site Location and Local Topography



Site Location  
2578 Wauwatosa Ave  
Wauwatosa, WI

**Legend**  
 Site Parcel

0 2,000 4,000 Feet

6737 West Washington Street  
Suite 3440  
West Allis, Wisconsin 53214  
P: 414.291.8840  
F: 414.291.8841

DSGN: RED	CHK:
DR:	APVD:
G:\Projects\City of Wauwatosa\2578 Wauwatosa\PhaseII\1SiteLocation.mxd	

CITY OF WAUWATOSA  
 PHASE II ESA  
 2578 N WAUWATOSA AVE

Figure 1  
 Site Location and  
 Local Topography

SCALE	1 inch = 2,000 feet
DWG	
DATE	March 2014
PROJ NO.	W121218

Figure 2

Site Basemap and Sample Locations

Path: G:\Projects\Wauwatosa\_City\W121218\MXD\2578\_Wauwatosa\Phase II\Figures\2SiteBasemapandSampleLocations.mxd



**Legend**

- SB/TW-01 Soil Boring/Temporary Well Location
- Site Property Boundary
- Parcels
- Building Footprints

**Utility Data**

- Sanitary Sewer MH
- Sanitary Sewer Pipe
- Storm Structures
- Storm Pipes
- WaterMain

0 5 10 20 Feet

**SYMBIONT**  
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- GIS SERVICES
- BROWNFIELDS

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DR:	RED	APVD:	RED

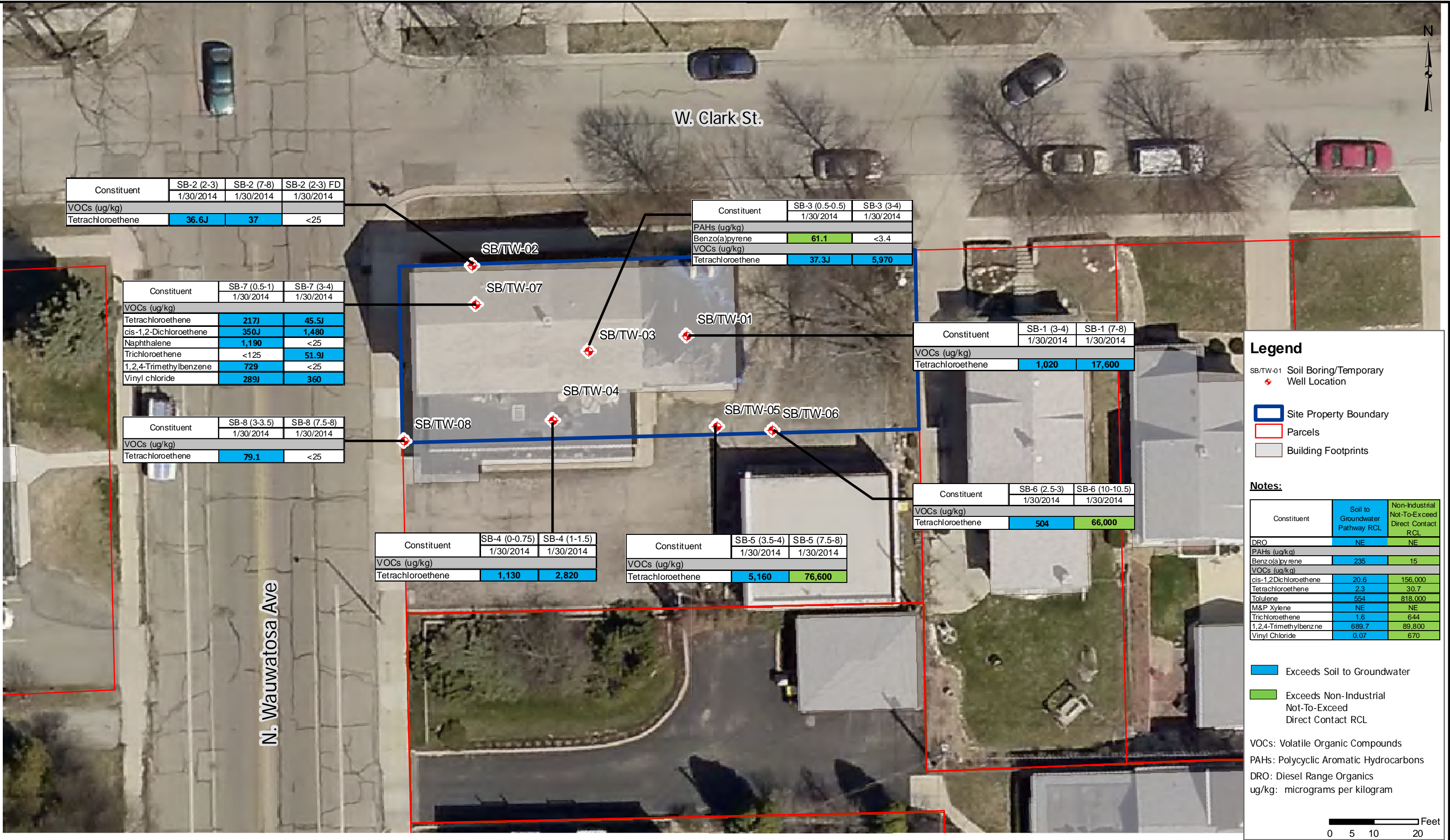
**CITY OF WAUWATOSA  
 PHASE II ESA  
 2578 N WAUWATOSA AVE**

**FIGURE 2  
 SITE BASEMAP AND SAMPLE LOCATIONS**

SCALE	1 inch = 20 feet
DWG	01
DATE	FEB 2014
PROJ NO	W121218

Figure 3  
Soil Sample Results





Constituent	SB-2 (2-3) 1/30/2014	SB-2 (7-8) 1/30/2014	SB-2 (2-3) FD 1/30/2014
VOCs (ug/kg)			
Tetrachloroethene	36.6J	37	<25

Constituent	SB-3 (0.5-0.5) 1/30/2014	SB-3 (3-4) 1/30/2014
PAHs (ug/kg)		
Benzo(a)pyrene	61.1	<3.4
VOCs (ug/kg)		
Tetrachloroethene	37.3J	5,970

Constituent	SB-7 (0.5-1) 1/30/2014	SB-7 (3-4) 1/30/2014
VOCs (ug/kg)		
Tetrachloroethene	217J	45.5J
cis-1,2-Dichloroethene	350J	1,480
Naphthalene	1,190	<25
Trichloroethene	<125	51.9J
1,2,4-Trimethylbenzene	729	<25
Vinyl chloride	289J	360

Constituent	SB-1 (3-4) 1/30/2014	SB-1 (7-8) 1/30/2014
VOCs (ug/kg)		
Tetrachloroethene	1,020	17,600

Constituent	SB-8 (3-3.5) 1/30/2014	SB-8 (7.5-8) 1/30/2014
VOCs (ug/kg)		
Tetrachloroethene	79.1	<25

Constituent	SB-4 (0-0.75) 1/30/2014	SB-4 (1-1.5) 1/30/2014
VOCs (ug/kg)		
Tetrachloroethene	1,130	2,820

Constituent	SB-5 (3.5-4) 1/30/2014	SB-5 (7.5-8) 1/30/2014
VOCs (ug/kg)		
Tetrachloroethene	5,160	76,600

Constituent	SB-6 (2.5-3) 1/30/2014	SB-6 (10-10.5) 1/30/2014
VOCs (ug/kg)		
Tetrachloroethene	504	66,000

**Legend**

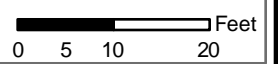
- SB/TW-01 Soil Boring/Temporary Well Location
- Site Property Boundary
- Parcels
- Building Footprints

**Notes:**

Constituent	Soil to Groundwater Pathway RCL	Non-Industrial Not-To-Exceed Direct Contact RCL
DRO		
PAHs (ug/kg)	NE	NE
Benzo(a)pyrene	235	15
VOCs (ug/kg)		
cis-1,2Dichloroethene	20.6	156,000
Tetrachloroethene	2.3	30.7
Toluene	554	818,000
M&P Xylene	NE	NE
Trichloroethene	1.6	644
1,2,4-Trimethylbenzene	689.7	89,800
Vinyl Chloride	0.07	670

- Exceeds Soil to Groundwater
- Exceeds Non-Industrial Not-To-Exceed Direct Contact RCL

VOCs: Volatile Organic Compounds  
 PAHs: Polycyclic Aromatic Hydrocarbons  
 DRO: Diesel Range Organics  
 ug/kg: micrograms per kilogram



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- DESIGN/BUILD CONSTRUCTION MANAGEMENT
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- GIS SERVICES
- BROWNFIELDS

DSGN:	RED	CHK:	RED
DR:	RED	APVD:	RED

**CITY OF WAUWATOSA  
 PHASE II ESA  
 2578 N WAUWATOSA AVE**

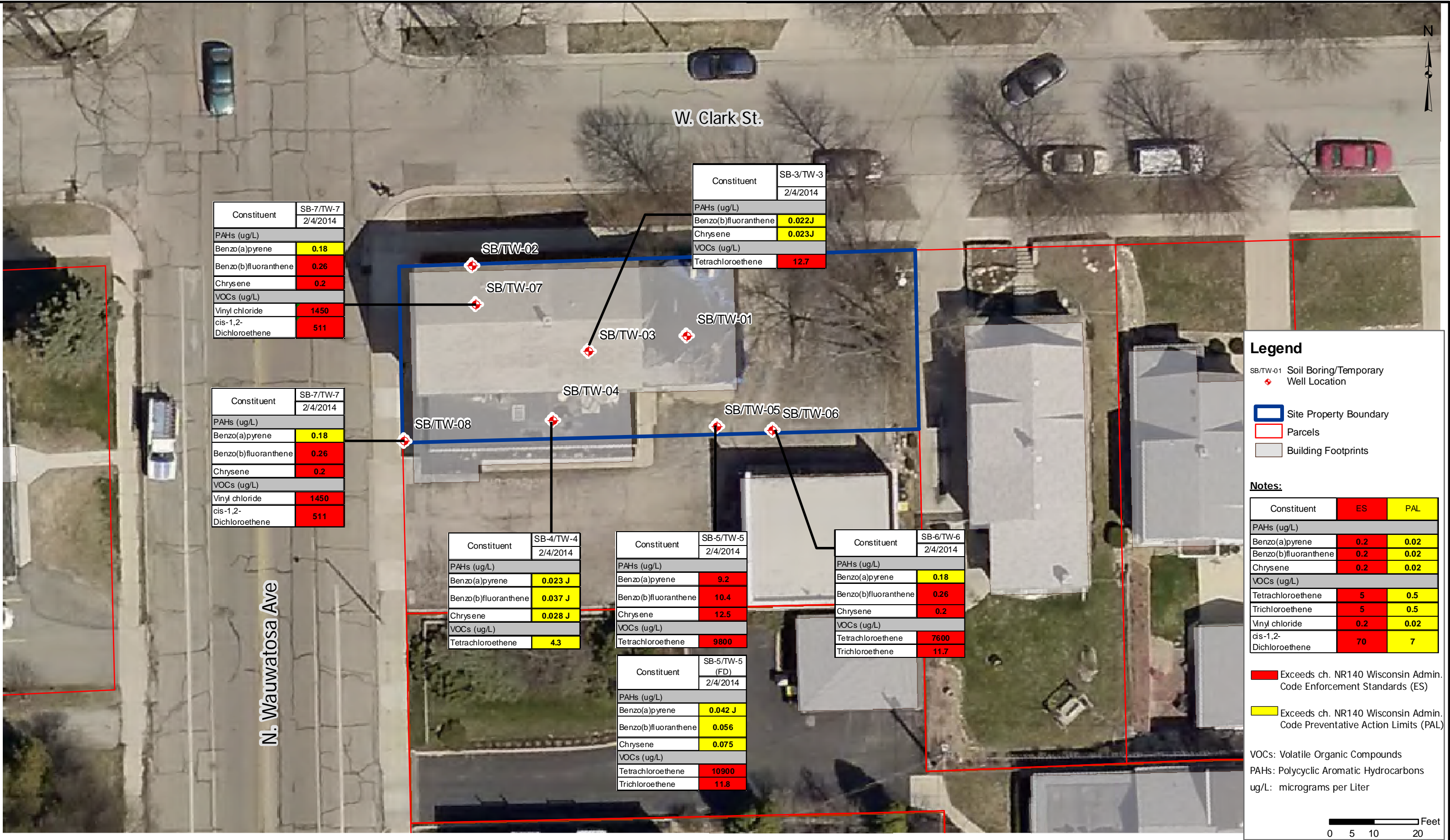
**FIGURE 3  
 SOIL SAMPLE RESULTS**

SCALE	1 inch = 20 feet
DWG	01
DATE	MARCH 2014
PROJ NO	W121218

Figure 4

Groundwater Sample Results

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Constituent	SB-7/TW-7 2/4/2014
PAHs (ug/L)	
Benzo(a)pyrene	0.18
Benzo(b)fluoranthene	0.26
Chrysene	0.2
VOCs (ug/L)	
Vinyl chloride	1450
cis-1,2-Dichloroethene	511

Constituent	SB-7/TW-7 2/4/2014
PAHs (ug/L)	
Benzo(a)pyrene	0.18
Benzo(b)fluoranthene	0.26
Chrysene	0.2
VOCs (ug/L)	
Vinyl chloride	1450
cis-1,2-Dichloroethene	511

Constituent	SB-4/TW-4 2/4/2014
PAHs (ug/L)	
Benzo(a)pyrene	0.023 J
Benzo(b)fluoranthene	0.037 J
Chrysene	0.028 J
VOCs (ug/L)	
Tetrachloroethene	4.3

Constituent	SB-5/TW-5 2/4/2014
PAHs (ug/L)	
Benzo(a)pyrene	9.2
Benzo(b)fluoranthene	10.4
Chrysene	12.5
VOCs (ug/L)	
Tetrachloroethene	9800

Constituent	SB-5/TW-5 (FD) 2/4/2014
PAHs (ug/L)	
Benzo(a)pyrene	0.042 J
Benzo(b)fluoranthene	0.056
Chrysene	0.075
VOCs (ug/L)	
Tetrachloroethene	10900
Trichloroethene	11.8

Constituent	SB-3/TW-3 2/4/2014
PAHs (ug/L)	
Benzo(b)fluoranthene	0.022 J
Chrysene	0.023 J
VOCs (ug/L)	
Tetrachloroethene	12.7

Constituent	SB-6/TW-6 2/4/2014
PAHs (ug/L)	
Benzo(a)pyrene	0.18
Benzo(b)fluoranthene	0.26
Chrysene	0.2
VOCs (ug/L)	
Tetrachloroethene	7600
Trichloroethene	11.7

**Legend**

- SB/TW-01 Soil Boring/Temporary Well Location
- Site Property Boundary
- Parcels
- Building Footprints

**Notes:**

Constituent	ES	PAL
PAHs (ug/L)		
Benzo(a)pyrene	0.2	0.02
Benzo(b)fluoranthene	0.2	0.02
Chrysene	0.2	0.02
VOCs (ug/L)		
Tetrachloroethene	5	0.5
Trichloroethene	5	0.5
Vinyl chloride	0.2	0.02
cis-1,2-Dichloroethene	70	7

Exceeds ch. NR140 Wisconsin Admin. Code Enforcement Standards (ES)

Exceeds ch. NR140 Wisconsin Admin. Code Preventative Action Limits (PAL)

VOCs: Volatile Organic Compounds  
PAHs: Polycyclic Aromatic Hydrocarbons  
ug/L: micrograms per Liter

0 5 10 20 Feet

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DSGN: RED	CHK: RED
DR: RED	APVD: RED

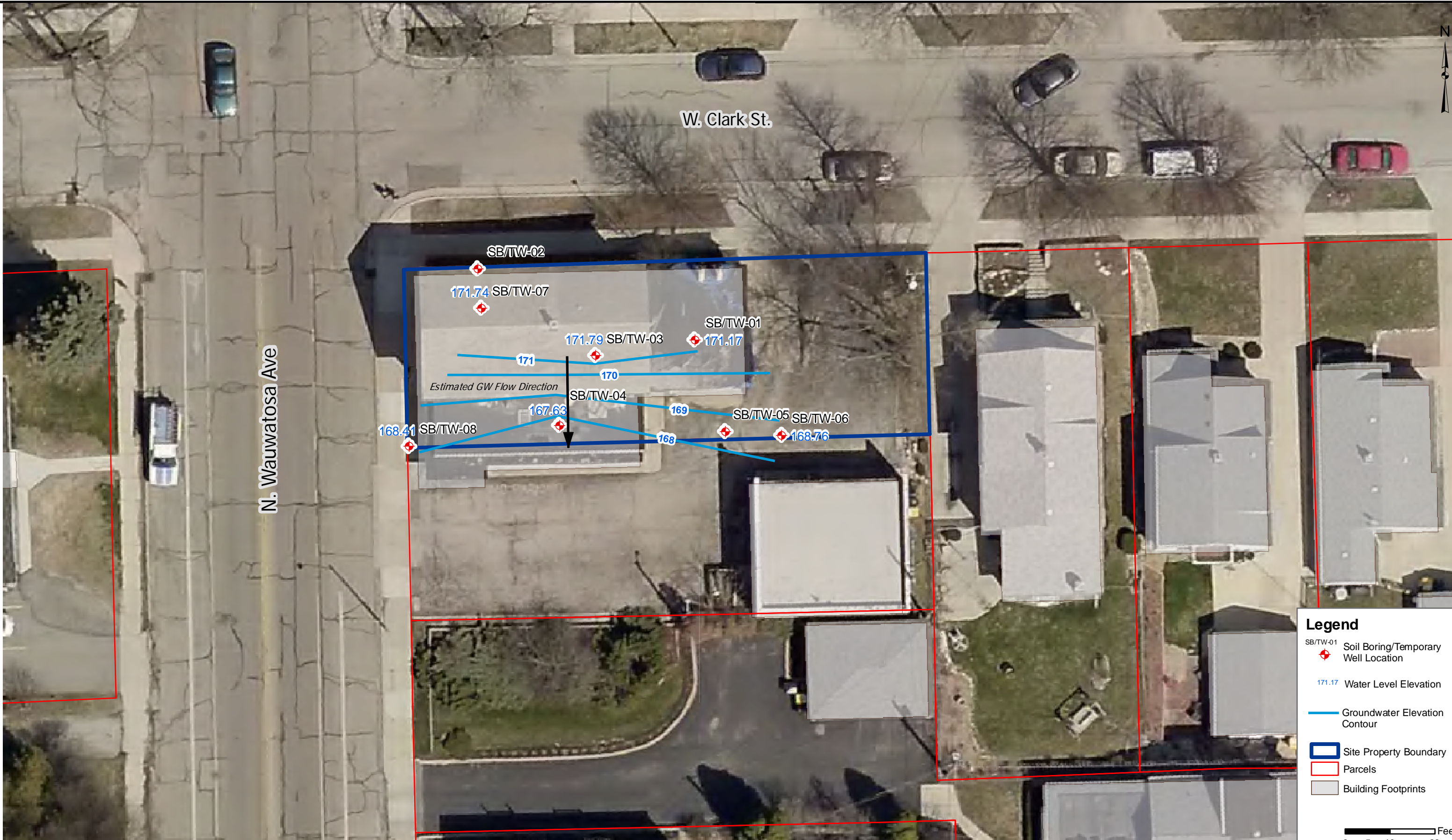
**CITY OF WAUWATOSA  
PHASE II ESA  
2578 N WAUWATOSA AVE**

**FIGURE 4  
GROUNDWATER SAMPLE RESULTS**

SCALE	1 inch = 20 feet
DWG	01
DATE	MARCH 2014
PROJ NO	W121218

Figure 5

Potentiometric Surface Maps




**Legend**

- SB/TW-01 Soil Boring/Temporary Well Location
- 171.17 Water Level Elevation
- Groundwater Elevation Contour
- Site Property Boundary
- Parcels
- Building Footprints

0 5 10 20 Feet

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- PROCESS ENGINEERING
- WATER RESOURCES PLANNING/DESIGN
- STORM WATER MANAGEMENT
- GIS SERVICES
- BROWNFIELDS

DSGN:	RED	CHK:	RED
DR:	RED	APVD:	RED

**CITY OF WAUWATOSA  
PHASE II ESA  
2578 N WAUWATOSA AVE**

<b>FIGURE 5 POTENTIOMETRIC SURFACE MAPS</b>	
SCALE	1 inch = 20 feet
DWG	03
DATE	FEB 2014
PROJ NO	W121218

## APPENDICES

## Appendix A

### Photographic Documentation of Phase II ESA Sampling Activities



1) SB/TW-1 completed with temporary monitoring well



2) Location of SB/TW-4





3) Location of SB/TW-5 being completed with temporary monitoring well



4) SB/TW-6



5) View of the basement and general location of SB/TW-7



6) Utility markings adjoining the west side of the site



7) View of the AST located in the basements



8) View of the basement and general location of SB/TW-3



9) Location of SB/TW-2



10) Manhole used for surveying bench mark

## Appendix B


### Soil Boring Logs

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-1		
Boring Drilled By (Firm name and name of crew chief) Horizon			Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014		
Drilling Method Push-probe			WI Unique Well No.		DNR Well ID No.		
Common Well Name			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
Borehole Diameter 2.00 Inches			Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> )				
State Plane 1/4 of 1/4 of Section T N, R			Lat. 43° 3' 57.8"		Local Grid Location (If applicable)		
Long. 88° 0' 25.1"			<input type="checkbox"/> N <input type="checkbox"/> E		<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Milwaukee		County Code 41		Civil Town/City/ or Village Wauwatosa	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
CS	60		0	<b>0.0-0.25 FEET</b> Concrete				0							
			1	<b>0.25-1.0 FEET</b> : CLAYEY SAND	SC										
			2	<b>1.0-15.0 FEET</b> SILTY CLAY: Dark yellowish brown (10 yr 3/4), some gravel and fine to medim grained sand; moist				0							
			3					0							
			4					0							
CS	60		5					0							
			6					0							
			7					0							
			8		CL			0							
			9					0							
CS	60		10	Increase in clay				0							
			11												
			12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: Symbiont  
6737 W. Washington St., Suite 3440, West Allis, WI Tel: 414-291-8840  
Fax: 414-291-8841

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.




Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-2	
Boring Drilled By (Firm name and name of crew chief)			Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014	
Horizon					Drilling Method Push-probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> )					Borehole Diameter 2.00 Inches	
State Plane 1/4 of 1/4 of Section , T N, R			Lat. 43° 3' 57.8" Long. 88° 0' 25.1"		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Wauwatosa		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
CS	60		0	<b>0.0-0.25 FEET ASPHALT</b>										
			1	<b>0.25-2.5 FEET SILTY CLAY:</b> Dark yellowish brown (10 YR 3/4), some gravel and fine to medium grained sand, moist	CL			0						
			2											
			3	<b>2.5 to 5.0 FEET CLAY:</b> Dark yellowish brown (10 YR 3/4), trace fine grained sand, moist	CL			0						
			4											
CS	60		5	<b>5.0 to 10.0 FEET CLAY:</b> Dark yellowish brown (10 YR 4/6), gray mottling, moist	CL			0						
			6											
			7											
			8											
			9	Wet										
CS	60		10	<b>10.0 to 13.0 FEET CLAYEY SAND:</b> Grayish brown (10 YR 5/2), medium to coarse grained sand, wet	SC			0						
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Symbiont 6737 W. Washington St., Suite 3440, West Allis, WI	Tel: 414-291-8840 Fax: 414-291-8841
--	--	--

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.





Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-3	
Boring Drilled By (Firm name and name of crew chief) Horizon			Date Drilling Started 1/30/2014	Date Drilling Completed 1/30/2014	Drilling Method Push-probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> ) State Plane S/C/N 1/4 of 1/4 of Section , T N, R			Local Grid Location (If applicable) Lat. 43° 3' 57.8" Long. 88° 0' 25.1" Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village Wauwatosa			

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	<b>0.0-0.5 FEET DETERIORATED CONCRETE (BASEMENT FLOOR) AND FILL MATERIAL</b>				2.2							
			2	<b>0.5 to 6.0 FEET SILTY CLAY:</b> Dark yellowish brown (10 YR 3/4), some fine to medium grained sand, moist Wet	CL			0							
			3					0							
			4					0							
			5					0							
			6					0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm Symbiont Tel: 414-291-8840  
6737 W. Washington St., Suite 3440, West Allis, WI Fax: 414-291-8841

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-4	
Boring Drilled By (Firm name and name of crew chief)			Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014	
Horizon					Drilling Method Push-probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL		Borehole Diameter 2.00 Inches
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> ) State Plane S/C/N			Local Grid Location (If applicable)			
1/4 of Section , T N, R			Lat. 43° 3' 57.8" Long. 88° 0' 25.1"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Wauwatosa		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
CS	60		0	<b>0.5-0.75 FEET Concrete</b>				0						
			1	<b>0.75-15.0 FEET SILTY CLAY:</b> Dark yellowish brown (10 yr 3/4), with some gravel and fine to medim grained sand; moist	CL			0						
			2					0						
			3					0						
			4					0						
CS	60		5	Increase in clay	CL			0						
			6					0						
			7					0						
			8					0						
			9					0						
			10					0						
CS	60		10					0						
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: Symbiont  
6737 W. Washington St., Suite 3440, West Allis, WI  
Tel: 414-291-8840 Fax: 414-291-8841

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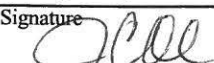


Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-5	
Boring Drilled By (Firm name and name of crew chief)			Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014	
Horizon					Drilling Method Push-probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> ) State Plane 1/4 of 1/4 of Section , T N, R			Local Grid Location (If applicable) Lat. 43° 3' 57.8" Long. 88° 0' 25.1"		Borehole Diameter 2.00 Inches	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Wauwatosa		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
CS	60		0	<b>0.0-0.25 FEET ASPHALT</b>										
			1	<b>0.25-2.5 FEET SILTY CLAY:</b> Dark yellowish brown (10 YR 3/4), some gravel and fine to medium grained sand, moist	CL			0						
			2											
			3	<b>2.5 to 5.0 FEET CLAY:</b> Dark yellowish brown (10 YR 3/4), trace fine grained sand, moist	CL			0						
			4											
			5	trace gravel										
CS	60		6	<b>5.0 to 10.0 FEET CLAY:</b> Dark yellowish brown (10 YR 4/6), moist	CL			0						
			7					15.1						
			8					25.9						
			9	Wet				16.9						
			10					40.0						
CS	60		11	<b>10.0 to 13.0 FEET CLAYEY SAND:</b> Grayish brown (10 YR 5/2), medium to coarse grained sand, wet	SC			79.0						
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Symbiont 6737 W. Washington St., Suite 3440, West Allis, WI	Tel: 414-291-8840 Fax: 414-291-8841
--	--	--

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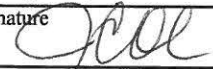


Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-6	
Boring Drilled By (Firm name and name of crew chief)			Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014	
Horizon					Drilling Method Push-probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> ) State Plane S/C/N			Local Grid Location (If applicable)			
1/4 of	1/4 of Section	T N, R	Lat. 43° 3' 57.8"		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
			Long. 88° 0' 25.1"		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Wauwatosa		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
CS	60		0	<b>0.0-0.25 FEET ASPHALT</b>										
			1	<b>0.25-2.5 FEET SILTY CLAY:</b> Dark yellowish brown (10 YR 3/4), some gravel and fine to medium grained sand, moist	CL			0						
			2											
			3	<b>2.5 to 5.0 FEET CLAY:</b> Dark yellowish brown (10 YR 3/4), trace fine grained sand, moist	CL			0						
			4											
			5	Decrease in silt										
CS	60		6	<b>5.0 to 15.0 FEET CLAY:</b> Dark yellowish brown (10 YR 4/6), intermittent fine grained sand seams, moist				37.2						
			7											
			8	Wet				25.9						
			9											
			10					40						
CS	60		11	Some sand										
			12	Decrease in sand										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Symbiont 6737 W. Washington St., Suite 3440, West Allis, WI	Tel: 414-291-8840 Fax: 414-291-8841
--	--	--

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Boring Number

**SB-6**

Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			13					79						
			14					117.5						
			15	<u>E.O.B. at 15 feet bgs</u>				51.5						




Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue		License/Permit/Monitoring Number		Boring Number SB/TW-7	
Boring Drilled By (Firm name and name of crew chief)		Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014	
Horizon				Drilling Method Push-probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 Inches
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> ) State Plane S/C/N			Local Grid Location (If applicable)		
1/4 of 1/4 of Section , T N, R			Lat. 43° 3' 57.8" Long. 88° 0' 25.1" Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village Wauwatosa		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
CS	36		1	<b>0.0-0.5 FEET</b> DETERIORATED CONCRETE (BASEMENT FLOOR) AND SANDY FILL MATERIAL				44.1						
			2	<b>0.5 to 6.0 FEET</b> SILTY CLAY: Dark yellowish brown (10 YR 4/6), trace fine to medium grained sand, petroleum odor, moist				97.1						
			3	Decrease in sand	CL			68.2						
CS	36		4					55.1						
			5					26.3						
			6											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm Symbiont  
6737 W. Washington St., Suite 3440, West Allis, WI Tel: 414-291-8840  
Fax: 414-291-8841


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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name 2578 Wauwatosa Avenue			License/Permit/Monitoring Number		Boring Number SB/TW-8	
Boring Drilled By (Firm name and name of crew chief) Horizon			Date Drilling Started 1/30/2014		Date Drilling Completed 1/30/2014	
Drilling Method Push-probe			Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter 2.00 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/> ) State Plane S/C/N			Lat. 43° 3' 57.8"		Local Grid Location (If applicable)	
1/4 of 1/4 of Section, T N, R			Long. 88° 0' 25.1"		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	Civil Town/City/ or Village Wauwatosa	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				<b>0.0-0.25 FEET ASPHALT</b>										
CS	60		1	<b>0.25-2.5 FEET SILTY CLAY:</b> Dark yellowish brown (10 YR 3/4), some gravel and fine to medium grained sand, moist	CL			0						
			2					0						
			3	<b>2.5 to 5.0 FEET CLAY:</b> Dark yellowish brown (10 YR 3/4), trace fine grained sand, moist	CL			0						
			4					0						
			5	Some gravel										
CS	60		6	<b>5.0 to 10.0 FEET CLAY:</b> Dark yellowish brown (10 YR 4/6), with gray mottling, moist	CL			0						
			7					0						
			8					0						
			9	Wet				0						
			10					0						
CS	60		11	<b>10.0 to 13.0 FEET CLAYEY SAND:</b> Grayish brown (10 YR 5/2), medium to coarse grained sand, wet	SC									
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm Symbiont  
6737 W. Washington St., Suite 3440, West Allis, WI Tel: 414-291-8840  
Fax: 414-291-8841

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## Appendix C

### Laboratory Analytical Reports and Chain of Custody Documentation

February 11, 2014

Jennifer Coe  
Symbiont  
6737 W. Washington St  
Suite 3440  
Milwaukee, WI 53214

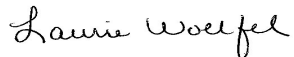
RE: Project: W121218 2578 WAUWATOSA AVE  
Pace Project No.: 4091786

Dear Jennifer Coe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Laurie Woelfel  
laurie.woelfel@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

---

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4091786001	SB1	Water	02/04/14 09:20	02/05/14 09:20
4091786002	SB2	Water	02/04/14 09:40	02/05/14 09:20
4091786003	SB3	Water	02/04/14 10:20	02/05/14 09:20
4091786004	SB4	Water	02/04/14 08:48	02/05/14 09:20
4091786005	SB5	Water	02/04/14 11:15	02/05/14 09:20
4091786006	SB6	Water	02/04/14 11:30	02/05/14 09:20
4091786007	SB7	Water	02/04/14 10:40	02/05/14 09:20
4091786008	SB8	Water	02/04/14 11:05	02/05/14 09:20
4091786009	FD	Water	02/04/14 00:00	02/05/14 09:20
4091786010	TRIP BLANK	Water	02/04/14 00:00	02/05/14 09:20

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4091786001	SB1	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4091786002	SB2	EPA 8260	LAP	64	PASI-G
4091786003	SB3	EPA 8260	LAP	64	PASI-G
4091786004	SB4	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4091786005	SB5	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4091786006	SB6	EPA 8260	LAP	64	PASI-G
4091786007	SB7	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4091786008	SB8	EPA 8260	LAP	64	PASI-G
4091786009	FD	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4091786010	TRIP BLANK	EPA 8260	LAP	64	PASI-G

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB1**      **Lab ID: 4091786001**      Collected: 02/04/14 09:20      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510							
Acenaphthene	<b>0.022J</b>	ug/L	0.050	0.0064	1	02/06/14 12:00	02/07/14 10:40	83-32-9	B
Acenaphthylene	<b>0.0073J</b>	ug/L	0.050	0.0053	1	02/06/14 12:00	02/07/14 10:40	208-96-8	B
Anthracene	<b>0.0082J</b>	ug/L	0.050	0.0062	1	02/06/14 12:00	02/07/14 10:40	120-12-7	B
Benzo(a)anthracene	<b>0.0067J</b>	ug/L	0.050	0.0065	1	02/06/14 12:00	02/07/14 10:40	56-55-3	B
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.050	0.011	1	02/06/14 12:00	02/07/14 10:40	50-32-8	
Benzo(b)fluoranthene	<b>0.0085J</b>	ug/L	0.050	0.0083	1	02/06/14 12:00	02/07/14 10:40	205-99-2	B
Benzo(g,h,i)perylene	<b>0.011J</b>	ug/L	0.050	0.0090	1	02/06/14 12:00	02/07/14 10:40	191-24-2	B
Benzo(k)fluoranthene	<b>&lt;0.012</b>	ug/L	0.050	0.012	1	02/06/14 12:00	02/07/14 10:40	207-08-9	
Chrysene	<b>0.020J</b>	ug/L	0.050	0.0080	1	02/06/14 12:00	02/07/14 10:40	218-01-9	B
Dibenz(a,h)anthracene	<b>&lt;0.0074</b>	ug/L	0.050	0.0074	1	02/06/14 12:00	02/07/14 10:40	53-70-3	
Fluoranthene	<b>0.014J</b>	ug/L	0.050	0.0058	1	02/06/14 12:00	02/07/14 10:40	206-44-0	B
Fluorene	<b>0.025J</b>	ug/L	0.050	0.0072	1	02/06/14 12:00	02/07/14 10:40	86-73-7	B
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0095</b>	ug/L	0.050	0.0095	1	02/06/14 12:00	02/07/14 10:40	193-39-5	
1-Methylnaphthalene	<b>0.10</b>	ug/L	0.050	0.0070	1	02/06/14 12:00	02/07/14 10:40	90-12-0	
2-Methylnaphthalene	<b>0.13</b>	ug/L	0.050	0.0068	1	02/06/14 12:00	02/07/14 10:40	91-57-6	
Naphthalene	<b>0.060</b>	ug/L	0.050	0.0051	1	02/06/14 12:00	02/07/14 10:40	91-20-3	B
Phenanthrene	<b>0.059</b>	ug/L	0.050	0.0055	1	02/06/14 12:00	02/07/14 10:40	85-01-8	B
Pyrene	<b>0.019J</b>	ug/L	0.050	0.0059	1	02/06/14 12:00	02/07/14 10:40	129-00-0	B
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	83 %		39-130		1	02/06/14 12:00	02/07/14 10:40	321-60-8	
Terphenyl-d14 (S)	109 %		73-155		1	02/06/14 12:00	02/07/14 10:40	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		02/07/14 18:55	71-43-2	
Bromobenzene	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 18:55	108-86-1	
Bromochloromethane	<b>&lt;0.49</b>	ug/L	1.0	0.49	1		02/07/14 18:55	74-97-5	
Bromodichloromethane	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		02/07/14 18:55	75-27-4	
Bromoform	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		02/07/14 18:55	75-25-2	
Bromomethane	<b>&lt;0.43</b>	ug/L	5.0	0.43	1		02/07/14 18:55	74-83-9	
n-Butylbenzene	<b>&lt;0.40</b>	ug/L	1.0	0.40	1		02/07/14 18:55	104-51-8	
sec-Butylbenzene	<b>&lt;0.60</b>	ug/L	5.0	0.60	1		02/07/14 18:55	135-98-8	
tert-Butylbenzene	<b>&lt;0.42</b>	ug/L	1.0	0.42	1		02/07/14 18:55	98-06-6	
Carbon tetrachloride	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		02/07/14 18:55	56-23-5	
Chlorobenzene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		02/07/14 18:55	108-90-7	
Chloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		02/07/14 18:55	75-00-3	
Chloroform	<b>&lt;0.69</b>	ug/L	5.0	0.69	1		02/07/14 18:55	67-66-3	
Chloromethane	<b>2.0</b>	ug/L	1.0	0.39	1		02/07/14 18:55	74-87-3	
2-Chlorotoluene	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 18:55	95-49-8	
4-Chlorotoluene	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 18:55	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		02/07/14 18:55	96-12-8	
Dibromochloromethane	<b>&lt;1.9</b>	ug/L	5.0	1.9	1		02/07/14 18:55	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;0.38</b>	ug/L	1.0	0.38	1		02/07/14 18:55	106-93-4	
Dibromomethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 18:55	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		02/07/14 18:55	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		02/07/14 18:55	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		02/07/14 18:55	106-46-7	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Project No.: 4091786

**Sample: SB1**      **Lab ID: 4091786001**      Collected: 02/04/14 09:20      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 18:55	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 18:55	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 18:55	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 18:55	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		02/07/14 18:55	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 18:55	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 18:55	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 18:55	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 18:55	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 18:55	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 18:55	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 18:55	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 18:55	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 18:55	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 18:55	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 18:55	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 18:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 18:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 18:55	79-34-5	
Tetrachloroethene	25.2	ug/L	1.0	0.47	1		02/07/14 18:55	127-18-4	
Toluene	1.0J	ug/L	1.0	0.44	1		02/07/14 18:55	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 18:55	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 18:55	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 18:55	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 18:55	79-00-5	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		02/07/14 18:55	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 18:55	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 18:55	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 18:55	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 18:55	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 18:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		02/07/14 18:55	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		02/07/14 18:55	1868-53-7	
Toluene-d8 (S)	97 %		55-137		1		02/07/14 18:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB2**      **Lab ID: 4091786002**      Collected: 02/04/14 09:40      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		02/07/14 19:18	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		02/07/14 19:18	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		02/07/14 19:18	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		02/07/14 19:18	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		02/07/14 19:18	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		02/07/14 19:18	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		02/07/14 19:18	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/07/14 19:18	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/07/14 19:18	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		02/07/14 19:18	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 19:18	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		02/07/14 19:18	67-66-3	
Chloromethane	1.3	ug/L	1.0	0.39	1		02/07/14 19:18	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 19:18	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 19:18	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		02/07/14 19:18	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		02/07/14 19:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		02/07/14 19:18	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		02/07/14 19:18	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		02/07/14 19:18	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		02/07/14 19:18	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		02/07/14 19:18	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 19:18	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 19:18	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 19:18	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 19:18	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		02/07/14 19:18	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 19:18	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 19:18	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 19:18	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 19:18	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 19:18	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 19:18	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 19:18	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 19:18	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 19:18	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 19:18	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 19:18	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 19:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 19:18	630-20-6	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB2**      **Lab ID: 4091786002**      Collected: 02/04/14 09:40      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 19:18	79-34-5	
Tetrachloroethene	0.66J	ug/L	1.0	0.47	1		02/07/14 19:18	127-18-4	
Toluene	<0.44	ug/L	1.0	0.44	1		02/07/14 19:18	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 19:18	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 19:18	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 19:18	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 19:18	79-00-5	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		02/07/14 19:18	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 19:18	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 19:18	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 19:18	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 19:18	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95 %		43-137		1		02/07/14 19:18	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		02/07/14 19:18	1868-53-7	
Toluene-d8 (S)	97 %		55-137		1		02/07/14 19:18	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Project No.: 4091786

**Sample: SB3**      **Lab ID: 4091786003**      Collected: 02/04/14 10:20      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		02/07/14 19:41	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		02/07/14 19:41	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		02/07/14 19:41	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		02/07/14 19:41	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		02/07/14 19:41	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		02/07/14 19:41	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		02/07/14 19:41	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/07/14 19:41	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/07/14 19:41	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		02/07/14 19:41	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 19:41	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		02/07/14 19:41	67-66-3	
Chloromethane	1.4	ug/L	1.0	0.39	1		02/07/14 19:41	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 19:41	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		02/07/14 19:41	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		02/07/14 19:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		02/07/14 19:41	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		02/07/14 19:41	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		02/07/14 19:41	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		02/07/14 19:41	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		02/07/14 19:41	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 19:41	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 19:41	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 19:41	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 19:41	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		02/07/14 19:41	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 19:41	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 19:41	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 19:41	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 19:41	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 19:41	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 19:41	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 19:41	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 19:41	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 19:41	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 19:41	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 19:41	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 19:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 19:41	630-20-6	

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB3**      **Lab ID: 4091786003**      Collected: 02/04/14 10:20      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 19:41	79-34-5	
Tetrachloroethene	12.7	ug/L	1.0	0.47	1		02/07/14 19:41	127-18-4	
Toluene	3.4	ug/L	1.0	0.44	1		02/07/14 19:41	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 19:41	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 19:41	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 19:41	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 19:41	79-00-5	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		02/07/14 19:41	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 19:41	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 19:41	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 19:41	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 19:41	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 19:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	43-137		1		02/07/14 19:41	460-00-4	HS,pH
Dibromofluoromethane (S)	107	%	70-130		1		02/07/14 19:41	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		02/07/14 19:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB4**      **Lab ID: 4091786004**      Collected: 02/04/14 08:48      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>0.018J</b>	ug/L	0.047	0.0060	1	02/06/14 12:00	02/07/14 11:00	83-32-9	B
Acenaphthylene	<b>0.012J</b>	ug/L	0.047	0.0050	1	02/06/14 12:00	02/07/14 11:00	208-96-8	B
Anthracene	<b>0.021J</b>	ug/L	0.047	0.0058	1	02/06/14 12:00	02/07/14 11:00	120-12-7	B
Benzo(a)anthracene	<b>0.017J</b>	ug/L	0.047	0.0061	1	02/06/14 12:00	02/07/14 11:00	56-55-3	B
Benzo(a)pyrene	<b>0.023J</b>	ug/L	0.047	0.0099	1	02/06/14 12:00	02/07/14 11:00	50-32-8	B
Benzo(b)fluoranthene	<b>0.037J</b>	ug/L	0.047	0.0078	1	02/06/14 12:00	02/07/14 11:00	205-99-2	B
Benzo(g,h,i)perylene	<b>0.036J</b>	ug/L	0.047	0.0084	1	02/06/14 12:00	02/07/14 11:00	191-24-2	B
Benzo(k)fluoranthene	<b>0.029J</b>	ug/L	0.047	0.011	1	02/06/14 12:00	02/07/14 11:00	207-08-9	B
Chrysene	<b>0.028J</b>	ug/L	0.047	0.0075	1	02/06/14 12:00	02/07/14 11:00	218-01-9	B
Dibenz(a,h)anthracene	<b>0.014J</b>	ug/L	0.047	0.0069	1	02/06/14 12:00	02/07/14 11:00	53-70-3	B
Fluoranthene	<b>0.033J</b>	ug/L	0.047	0.0054	1	02/06/14 12:00	02/07/14 11:00	206-44-0	B
Fluorene	<b>0.043J</b>	ug/L	0.047	0.0067	1	02/06/14 12:00	02/07/14 11:00	86-73-7	B
Indeno(1,2,3-cd)pyrene	<b>0.033J</b>	ug/L	0.047	0.0089	1	02/06/14 12:00	02/07/14 11:00	193-39-5	B
1-Methylnaphthalene	<b>0.16</b>	ug/L	0.047	0.0065	1	02/06/14 12:00	02/07/14 11:00	90-12-0	
2-Methylnaphthalene	<b>0.24</b>	ug/L	0.047	0.0064	1	02/06/14 12:00	02/07/14 11:00	91-57-6	
Naphthalene	<b>0.085</b>	ug/L	0.047	0.0048	1	02/06/14 12:00	02/07/14 11:00	91-20-3	
Phenanthrene	<b>0.10</b>	ug/L	0.047	0.0051	1	02/06/14 12:00	02/07/14 11:00	85-01-8	B
Pyrene	<b>0.033J</b>	ug/L	0.047	0.0055	1	02/06/14 12:00	02/07/14 11:00	129-00-0	B
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84 %		39-130		1	02/06/14 12:00	02/07/14 11:00	321-60-8	
Terphenyl-d14 (S)	107 %		73-155		1	02/06/14 12:00	02/07/14 11:00	1718-51-0	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		02/07/14 20:04	71-43-2	
Bromobenzene	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 20:04	108-86-1	
Bromochloromethane	<b>&lt;0.49</b>	ug/L	1.0	0.49	1		02/07/14 20:04	74-97-5	
Bromodichloromethane	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		02/07/14 20:04	75-27-4	
Bromoform	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		02/07/14 20:04	75-25-2	
Bromomethane	<b>&lt;0.43</b>	ug/L	5.0	0.43	1		02/07/14 20:04	74-83-9	
n-Butylbenzene	<b>&lt;0.40</b>	ug/L	1.0	0.40	1		02/07/14 20:04	104-51-8	
sec-Butylbenzene	<b>&lt;0.60</b>	ug/L	5.0	0.60	1		02/07/14 20:04	135-98-8	
tert-Butylbenzene	<b>&lt;0.42</b>	ug/L	1.0	0.42	1		02/07/14 20:04	98-06-6	
Carbon tetrachloride	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		02/07/14 20:04	56-23-5	
Chlorobenzene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		02/07/14 20:04	108-90-7	
Chloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		02/07/14 20:04	75-00-3	
Chloroform	<b>&lt;0.69</b>	ug/L	5.0	0.69	1		02/07/14 20:04	67-66-3	
Chloromethane	<b>1.6</b>	ug/L	1.0	0.39	1		02/07/14 20:04	74-87-3	
2-Chlorotoluene	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 20:04	95-49-8	
4-Chlorotoluene	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 20:04	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		02/07/14 20:04	96-12-8	
Dibromochloromethane	<b>&lt;1.9</b>	ug/L	5.0	1.9	1		02/07/14 20:04	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;0.38</b>	ug/L	1.0	0.38	1		02/07/14 20:04	106-93-4	
Dibromomethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		02/07/14 20:04	74-95-3	
1,2-Dichlorobenzene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		02/07/14 20:04	95-50-1	
1,3-Dichlorobenzene	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		02/07/14 20:04	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		02/07/14 20:04	106-46-7	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB4**      **Lab ID: 4091786004**      Collected: 02/04/14 08:48      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 20:04	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 20:04	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:04	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 20:04	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		02/07/14 20:04	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 20:04	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 20:04	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 20:04	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 20:04	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 20:04	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 20:04	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 20:04	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 20:04	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 20:04	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 20:04	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 20:04	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 20:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 20:04	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 20:04	79-34-5	
Tetrachloroethene	4.3	ug/L	1.0	0.47	1		02/07/14 20:04	127-18-4	
Toluene	0.53J	ug/L	1.0	0.44	1		02/07/14 20:04	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 20:04	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 20:04	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 20:04	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 20:04	79-00-5	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		02/07/14 20:04	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:04	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 20:04	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 20:04	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 20:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:04	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		02/07/14 20:04	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		02/07/14 20:04	1868-53-7	
Toluene-d8 (S)	102 %		55-137		1		02/07/14 20:04	2037-26-5	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB5**      **Lab ID: 4091786005**      Collected: 02/04/14 11:15      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.63	ug/L	4.9	0.63	80	02/06/14 12:00	02/07/14 09:40	83-32-9	M1
Acenaphthylene	<0.52	ug/L	4.9	0.52	80	02/06/14 12:00	02/07/14 09:40	208-96-8	
Anthracene	1.3J	ug/L	4.9	0.61	80	02/06/14 12:00	02/07/14 09:40	120-12-7	B,M1
Benzo(a)anthracene	6.0	ug/L	4.9	0.64	80	02/06/14 12:00	02/07/14 09:40	56-55-3	B,M1, R1
Benzo(a)pyrene	9.2	ug/L	4.9	1.0	80	02/06/14 12:00	02/07/14 09:40	50-32-8	B,M1, R1
Benzo(b)fluoranthene	10.4	ug/L	4.9	0.82	80	02/06/14 12:00	02/07/14 09:40	205-99-2	B,M1, R1
Benzo(g,h,i)perylene	7.1	ug/L	4.9	0.89	80	02/06/14 12:00	02/07/14 09:40	191-24-2	B,M1, R1
Benzo(k)fluoranthene	10.7	ug/L	4.9	1.1	80	02/06/14 12:00	02/07/14 09:40	207-08-9	B,M1, R1
Chrysene	12.5	ug/L	4.9	0.79	80	02/06/14 12:00	02/07/14 09:40	218-01-9	B,M1, R1
Dibenz(a,h)anthracene	2.4J	ug/L	4.9	0.73	80	02/06/14 12:00	02/07/14 09:40	53-70-3	B,M1
Fluoranthene	28.0	ug/L	4.9	0.57	80	02/06/14 12:00	02/07/14 09:40	206-44-0	M1,R1
Fluorene	<0.71	ug/L	4.9	0.71	80	02/06/14 12:00	02/07/14 09:40	86-73-7	M1
Indeno(1,2,3-cd)pyrene	7.0	ug/L	4.9	0.94	80	02/06/14 12:00	02/07/14 09:40	193-39-5	B,M1, R1
1-Methylnaphthalene	<0.69	ug/L	4.9	0.69	80	02/06/14 12:00	02/07/14 09:40	90-12-0	M1
2-Methylnaphthalene	<0.67	ug/L	4.9	0.67	80	02/06/14 12:00	02/07/14 09:40	91-57-6	M1
Naphthalene	<0.50	ug/L	4.9	0.50	80	02/06/14 12:00	02/07/14 09:40	91-20-3	M1
Phenanthrene	13.0	ug/L	4.9	0.54	80	02/06/14 12:00	02/07/14 09:40	85-01-8	B,M1, R1
Pyrene	19.5	ug/L	4.9	0.58	80	02/06/14 12:00	02/07/14 09:40	129-00-0	M1,R1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0 %		39-130		80	02/06/14 12:00	02/07/14 09:40	321-60-8	S4
Terphenyl-d14 (S)	0 %		73-155		80	02/06/14 12:00	02/07/14 09:40	1718-51-0	S4
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	<50.0	ug/L	100	50.0	100		02/07/14 21:58	71-43-2	
Bromobenzene	<48.4	ug/L	100	48.4	100		02/07/14 21:58	108-86-1	
Bromochloromethane	<49.2	ug/L	100	49.2	100		02/07/14 21:58	74-97-5	
Bromodichloromethane	<45.3	ug/L	100	45.3	100		02/07/14 21:58	75-27-4	
Bromoform	<32.7	ug/L	100	32.7	100		02/07/14 21:58	75-25-2	
Bromomethane	<43.0	ug/L	500	43.0	100		02/07/14 21:58	74-83-9	
n-Butylbenzene	<40.0	ug/L	100	40.0	100		02/07/14 21:58	104-51-8	
sec-Butylbenzene	<60.5	ug/L	500	60.5	100		02/07/14 21:58	135-98-8	
tert-Butylbenzene	<42.4	ug/L	100	42.4	100		02/07/14 21:58	98-06-6	
Carbon tetrachloride	<36.5	ug/L	100	36.5	100		02/07/14 21:58	56-23-5	
Chlorobenzene	<35.8	ug/L	100	35.8	100		02/07/14 21:58	108-90-7	
Chloroethane	<44.4	ug/L	100	44.4	100		02/07/14 21:58	75-00-3	
Chloroform	<68.9	ug/L	500	68.9	100		02/07/14 21:58	67-66-3	
Chloromethane	<38.8	ug/L	100	38.8	100		02/07/14 21:58	74-87-3	
2-Chlorotoluene	<47.7	ug/L	100	47.7	100		02/07/14 21:58	95-49-8	
4-Chlorotoluene	<48.4	ug/L	100	48.4	100		02/07/14 21:58	106-43-4	
1,2-Dibromo-3-chloropropane	<150	ug/L	500	150	100		02/07/14 21:58	96-12-8	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE  
Pace Project No.: 4091786

**Sample: SB5**      **Lab ID: 4091786005**      Collected: 02/04/14 11:15      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dibromochloromethane	<190	ug/L	500	190	100		02/07/14 21:58	124-48-1	
1,2-Dibromoethane (EDB)	<38.1	ug/L	100	38.1	100		02/07/14 21:58	106-93-4	
Dibromomethane	<48.0	ug/L	100	48.0	100		02/07/14 21:58	74-95-3	
1,2-Dichlorobenzene	<43.9	ug/L	100	43.9	100		02/07/14 21:58	95-50-1	
1,3-Dichlorobenzene	<45.1	ug/L	100	45.1	100		02/07/14 21:58	541-73-1	
1,4-Dichlorobenzene	<43.4	ug/L	100	43.4	100		02/07/14 21:58	106-46-7	
Dichlorodifluoromethane	<40.1	ug/L	100	40.1	100		02/07/14 21:58	75-71-8	
1,1-Dichloroethane	<28.5	ug/L	100	28.5	100		02/07/14 21:58	75-34-3	
1,2-Dichloroethane	<47.6	ug/L	100	47.6	100		02/07/14 21:58	107-06-2	
1,1-Dichloroethene	<42.7	ug/L	100	42.7	100		02/07/14 21:58	75-35-4	
cis-1,2-Dichloroethene	<41.9	ug/L	100	41.9	100		02/07/14 21:58	156-59-2	
trans-1,2-Dichloroethene	<37.1	ug/L	100	37.1	100		02/07/14 21:58	156-60-5	
1,2-Dichloropropane	<49.8	ug/L	100	49.8	100		02/07/14 21:58	78-87-5	
1,3-Dichloropropane	<46.3	ug/L	100	46.3	100		02/07/14 21:58	142-28-9	
2,2-Dichloropropane	<50.0	ug/L	100	50.0	100		02/07/14 21:58	594-20-7	
1,1-Dichloropropene	<50.7	ug/L	100	50.7	100		02/07/14 21:58	563-58-6	
cis-1,3-Dichloropropene	<29.0	ug/L	100	29.0	100		02/07/14 21:58	10061-01-5	
trans-1,3-Dichloropropene	<30.3	ug/L	100	30.3	100		02/07/14 21:58	10061-02-6	
Diisopropyl ether	<50.0	ug/L	100	50.0	100		02/07/14 21:58	108-20-3	
Ethylbenzene	<50.0	ug/L	100	50.0	100		02/07/14 21:58	100-41-4	
Hexachloro-1,3-butadiene	<126	ug/L	500	126	100		02/07/14 21:58	87-68-3	
Isopropylbenzene (Cumene)	<34.1	ug/L	100	34.1	100		02/07/14 21:58	98-82-8	
p-Isopropyltoluene	<39.7	ug/L	100	39.7	100		02/07/14 21:58	99-87-6	
Methylene Chloride	<35.9	ug/L	100	35.9	100		02/07/14 21:58	75-09-2	
Methyl-tert-butyl ether	<49.4	ug/L	100	49.4	100		02/07/14 21:58	1634-04-4	
Naphthalene	<250	ug/L	500	250	100		02/07/14 21:58	91-20-3	
n-Propylbenzene	<50.0	ug/L	100	50.0	100		02/07/14 21:58	103-65-1	
Styrene	<35.0	ug/L	100	35.0	100		02/07/14 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	<45.0	ug/L	100	45.0	100		02/07/14 21:58	630-20-6	
1,1,1,2,2-Tetrachloroethane	<38.4	ug/L	100	38.4	100		02/07/14 21:58	79-34-5	
Tetrachloroethene	9800	ug/L	100	47.2	100		02/07/14 21:58	127-18-4	
Toluene	<43.9	ug/L	100	43.9	100		02/07/14 21:58	108-88-3	
1,2,3-Trichlorobenzene	<76.8	ug/L	500	76.8	100		02/07/14 21:58	87-61-6	
1,2,4-Trichlorobenzene	<250	ug/L	500	250	100		02/07/14 21:58	120-82-1	
1,1,1-Trichloroethane	<44.3	ug/L	100	44.3	100		02/07/14 21:58	71-55-6	
1,1,2-Trichloroethane	<39.0	ug/L	100	39.0	100		02/07/14 21:58	79-00-5	
Trichloroethene	<36.4	ug/L	100	36.4	100		02/07/14 21:58	79-01-6	
Trichlorofluoromethane	<47.7	ug/L	100	47.7	100		02/07/14 21:58	75-69-4	
1,2,3-Trichloropropane	<46.8	ug/L	100	46.8	100		02/07/14 21:58	96-18-4	
1,2,4-Trimethylbenzene	<50.0	ug/L	100	50.0	100		02/07/14 21:58	95-63-6	
1,3,5-Trimethylbenzene	<50.0	ug/L	100	50.0	100		02/07/14 21:58	108-67-8	
Vinyl chloride	<18.5	ug/L	100	18.5	100		02/07/14 21:58	75-01-4	
m&p-Xylene	<81.7	ug/L	200	81.7	100		02/07/14 21:58	179601-23-1	
o-Xylene	<50.0	ug/L	100	50.0	100		02/07/14 21:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		100		02/07/14 21:58	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

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**Sample: SB5**                                      **Lab ID: 4091786005**      Collected: 02/04/14 11:15      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
<b>Surrogates</b>									
Dibromofluoromethane (S)	109 %		70-130		100		02/07/14 21:58	1868-53-7	
Toluene-d8 (S)	103 %		55-137		100		02/07/14 21:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB6**      **Lab ID: 4091786006**      Collected: 02/04/14 11:30      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		02/07/14 20:27	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		02/07/14 20:27	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		02/07/14 20:27	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		02/07/14 20:27	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		02/07/14 20:27	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		02/07/14 20:27	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		02/07/14 20:27	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/07/14 20:27	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/07/14 20:27	56-23-5	
Chlorobenzene	0.53J	ug/L	1.0	0.36	1		02/07/14 20:27	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 20:27	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		02/07/14 20:27	67-66-3	
Chloromethane	0.61J	ug/L	1.0	0.39	1		02/07/14 20:27	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 20:27	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 20:27	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		02/07/14 20:27	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		02/07/14 20:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		02/07/14 20:27	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:27	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		02/07/14 20:27	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		02/07/14 20:27	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		02/07/14 20:27	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 20:27	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 20:27	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:27	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 20:27	75-35-4	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.42	1		02/07/14 20:27	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 20:27	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 20:27	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 20:27	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 20:27	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 20:27	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 20:27	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 20:27	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 20:27	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 20:27	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 20:27	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 20:27	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 20:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 20:27	630-20-6	

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB6**      **Lab ID: 4091786006**      Collected: 02/04/14 11:30      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 20:27	79-34-5	
Tetrachloroethene	7600	ug/L	50.0	23.6	50		02/10/14 10:51	127-18-4	
Toluene	<0.44	ug/L	1.0	0.44	1		02/07/14 20:27	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 20:27	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 20:27	120-82-1	
1,1,1-Trichloroethane	0.76J	ug/L	1.0	0.44	1		02/07/14 20:27	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 20:27	79-00-5	
Trichloroethene	11.7	ug/L	1.0	0.36	1		02/07/14 20:27	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:27	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 20:27	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 20:27	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 20:27	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:27	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		02/07/14 20:27	460-00-4	
Dibromofluoromethane (S)	108 %		70-130		1		02/07/14 20:27	1868-53-7	
Toluene-d8 (S)	94 %		55-137		1		02/07/14 20:27	2037-26-5	

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE  
Pace Project No.: 4091786

**Sample: SB7**      **Lab ID: 4091786007**      Collected: 02/04/14 10:40      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>24.2J</b>	ug/L	26.6	3.4	500	02/06/14 12:00	02/07/14 11:20	83-32-9	B
Acenaphthylene	<b>10.6J</b>	ug/L	26.6	2.8	500	02/06/14 12:00	02/07/14 11:20	208-96-8	
Anthracene	<b>9.3J</b>	ug/L	26.6	3.3	500	02/06/14 12:00	02/07/14 11:20	120-12-7	B
Benzo(a)anthracene	<b>&lt;3.5</b>	ug/L	26.6	3.5	500	02/06/14 12:00	02/07/14 11:20	56-55-3	
Benzo(a)pyrene	<b>&lt;5.6</b>	ug/L	26.6	5.6	500	02/06/14 12:00	02/07/14 11:20	50-32-8	
Benzo(b)fluoranthene	<b>&lt;4.4</b>	ug/L	26.6	4.4	500	02/06/14 12:00	02/07/14 11:20	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;4.8</b>	ug/L	26.6	4.8	500	02/06/14 12:00	02/07/14 11:20	191-24-2	
Benzo(k)fluoranthene	<b>&lt;6.1</b>	ug/L	26.6	6.1	500	02/06/14 12:00	02/07/14 11:20	207-08-9	
Chrysene	<b>&lt;4.3</b>	ug/L	26.6	4.3	500	02/06/14 12:00	02/07/14 11:20	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;3.9</b>	ug/L	26.6	3.9	500	02/06/14 12:00	02/07/14 11:20	53-70-3	
Fluoranthene	<b>3.7J</b>	ug/L	26.6	3.1	500	02/06/14 12:00	02/07/14 11:20	206-44-0	B
Fluorene	<b>60.8</b>	ug/L	26.6	3.8	500	02/06/14 12:00	02/07/14 11:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;5.1</b>	ug/L	26.6	5.1	500	02/06/14 12:00	02/07/14 11:20	193-39-5	
1-Methylnaphthalene	<b>257</b>	ug/L	26.6	3.7	500	02/06/14 12:00	02/07/14 11:20	90-12-0	
2-Methylnaphthalene	<b>275</b>	ug/L	26.6	3.6	500	02/06/14 12:00	02/07/14 11:20	91-57-6	
Naphthalene	<b>39.9</b>	ug/L	26.6	2.7	500	02/06/14 12:00	02/07/14 11:20	91-20-3	
Phenanthrene	<b>132</b>	ug/L	26.6	2.9	500	02/06/14 12:00	02/07/14 11:20	85-01-8	B
Pyrene	<b>17.6J</b>	ug/L	26.6	3.1	500	02/06/14 12:00	02/07/14 11:20	129-00-0	B
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0 %		39-130		500	02/06/14 12:00	02/07/14 11:20	321-60-8	S4
Terphenyl-d14 (S)	0 %		73-155		500	02/06/14 12:00	02/07/14 11:20	1718-51-0	S4
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;12.5</b>	ug/L	25.0	12.5	25		02/07/14 16:16	71-43-2	
Bromobenzene	<b>&lt;12.1</b>	ug/L	25.0	12.1	25		02/07/14 16:16	108-86-1	
Bromochloromethane	<b>&lt;12.3</b>	ug/L	25.0	12.3	25		02/07/14 16:16	74-97-5	
Bromodichloromethane	<b>&lt;11.3</b>	ug/L	25.0	11.3	25		02/07/14 16:16	75-27-4	
Bromoform	<b>&lt;8.2</b>	ug/L	25.0	8.2	25		02/07/14 16:16	75-25-2	
Bromomethane	<b>&lt;10.7</b>	ug/L	125	10.7	25		02/07/14 16:16	74-83-9	
n-Butylbenzene	<b>&lt;10</b>	ug/L	25.0	10	25		02/07/14 16:16	104-51-8	
sec-Butylbenzene	<b>&lt;15.1</b>	ug/L	125	15.1	25		02/07/14 16:16	135-98-8	
tert-Butylbenzene	<b>&lt;10.6</b>	ug/L	25.0	10.6	25		02/07/14 16:16	98-06-6	
Carbon tetrachloride	<b>&lt;9.1</b>	ug/L	25.0	9.1	25		02/07/14 16:16	56-23-5	
Chlorobenzene	<b>&lt;9.0</b>	ug/L	25.0	9.0	25		02/07/14 16:16	108-90-7	
Chloroethane	<b>&lt;11.1</b>	ug/L	25.0	11.1	25		02/07/14 16:16	75-00-3	
Chloroform	<b>&lt;17.2</b>	ug/L	125	17.2	25		02/07/14 16:16	67-66-3	
Chloromethane	<b>&lt;9.7</b>	ug/L	25.0	9.7	25		02/07/14 16:16	74-87-3	
2-Chlorotoluene	<b>&lt;11.9</b>	ug/L	25.0	11.9	25		02/07/14 16:16	95-49-8	
4-Chlorotoluene	<b>&lt;12.1</b>	ug/L	25.0	12.1	25		02/07/14 16:16	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;37.4</b>	ug/L	125	37.4	25		02/07/14 16:16	96-12-8	
Dibromochloromethane	<b>&lt;47.4</b>	ug/L	125	47.4	25		02/07/14 16:16	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;9.5</b>	ug/L	25.0	9.5	25		02/07/14 16:16	106-93-4	
Dibromomethane	<b>&lt;12.0</b>	ug/L	25.0	12.0	25		02/07/14 16:16	74-95-3	
1,2-Dichlorobenzene	<b>&lt;11.0</b>	ug/L	25.0	11.0	25		02/07/14 16:16	95-50-1	
1,3-Dichlorobenzene	<b>&lt;11.3</b>	ug/L	25.0	11.3	25		02/07/14 16:16	541-73-1	
1,4-Dichlorobenzene	<b>&lt;10.9</b>	ug/L	25.0	10.9	25		02/07/14 16:16	106-46-7	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB7**      **Lab ID: 4091786007**      Collected: 02/04/14 10:40      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dichlorodifluoromethane	<10.0	ug/L	25.0	10.0	25		02/07/14 16:16	75-71-8	
1,1-Dichloroethane	<7.1	ug/L	25.0	7.1	25		02/07/14 16:16	75-34-3	
1,2-Dichloroethane	<11.9	ug/L	25.0	11.9	25		02/07/14 16:16	107-06-2	
1,1-Dichloroethene	<10.7	ug/L	25.0	10.7	25		02/07/14 16:16	75-35-4	
cis-1,2-Dichloroethene	511	ug/L	25.0	10.5	25		02/07/14 16:16	156-59-2	
trans-1,2-Dichloroethene	<9.3	ug/L	25.0	9.3	25		02/07/14 16:16	156-60-5	
1,2-Dichloropropane	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	78-87-5	
1,3-Dichloropropane	<11.6	ug/L	25.0	11.6	25		02/07/14 16:16	142-28-9	
2,2-Dichloropropane	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	594-20-7	
1,1-Dichloropropene	<12.7	ug/L	25.0	12.7	25		02/07/14 16:16	563-58-6	
cis-1,3-Dichloropropene	<7.3	ug/L	25.0	7.3	25		02/07/14 16:16	10061-01-5	
trans-1,3-Dichloropropene	<7.6	ug/L	25.0	7.6	25		02/07/14 16:16	10061-02-6	
Diisopropyl ether	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	108-20-3	
Ethylbenzene	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	100-41-4	
Hexachloro-1,3-butadiene	<31.4	ug/L	125	31.4	25		02/07/14 16:16	87-68-3	
Isopropylbenzene (Cumene)	<8.5	ug/L	25.0	8.5	25		02/07/14 16:16	98-82-8	
p-Isopropyltoluene	<9.9	ug/L	25.0	9.9	25		02/07/14 16:16	99-87-6	
Methylene Chloride	<9.0	ug/L	25.0	9.0	25		02/07/14 16:16	75-09-2	
Methyl-tert-butyl ether	<12.3	ug/L	25.0	12.3	25		02/07/14 16:16	1634-04-4	
Naphthalene	<62.5	ug/L	125	62.5	25		02/07/14 16:16	91-20-3	
n-Propylbenzene	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	103-65-1	
Styrene	<8.7	ug/L	25.0	8.7	25		02/07/14 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	<11.3	ug/L	25.0	11.3	25		02/07/14 16:16	630-20-6	
1,1,2,2-Tetrachloroethane	<9.6	ug/L	25.0	9.6	25		02/07/14 16:16	79-34-5	
Tetrachloroethene	<11.8	ug/L	25.0	11.8	25		02/07/14 16:16	127-18-4	
Toluene	<11.0	ug/L	25.0	11.0	25		02/07/14 16:16	108-88-3	
1,2,3-Trichlorobenzene	<19.2	ug/L	125	19.2	25		02/07/14 16:16	87-61-6	
1,2,4-Trichlorobenzene	<62.5	ug/L	125	62.5	25		02/07/14 16:16	120-82-1	
1,1,1-Trichloroethane	<11.1	ug/L	25.0	11.1	25		02/07/14 16:16	71-55-6	
1,1,2-Trichloroethane	<9.7	ug/L	25.0	9.7	25		02/07/14 16:16	79-00-5	
Trichloroethene	<9.1	ug/L	25.0	9.1	25		02/07/14 16:16	79-01-6	
Trichlorofluoromethane	<11.9	ug/L	25.0	11.9	25		02/07/14 16:16	75-69-4	
1,2,3-Trichloropropane	<11.7	ug/L	25.0	11.7	25		02/07/14 16:16	96-18-4	
1,2,4-Trimethylbenzene	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	95-63-6	
1,3,5-Trimethylbenzene	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	108-67-8	
Vinyl chloride	1450	ug/L	25.0	4.6	25		02/07/14 16:16	75-01-4	
m&p-Xylene	<20.4	ug/L	50.0	20.4	25		02/07/14 16:16	179601-23-1	
o-Xylene	<12.5	ug/L	25.0	12.5	25		02/07/14 16:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	43-137		25		02/07/14 16:16	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		25		02/07/14 16:16	1868-53-7	
Toluene-d8 (S)	102	%	55-137		25		02/07/14 16:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB8**      **Lab ID: 4091786008**      Collected: 02/04/14 11:05      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		02/07/14 20:50	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		02/07/14 20:50	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		02/07/14 20:50	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		02/07/14 20:50	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		02/07/14 20:50	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		02/07/14 20:50	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		02/07/14 20:50	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/07/14 20:50	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/07/14 20:50	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		02/07/14 20:50	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 20:50	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		02/07/14 20:50	67-66-3	
Chloromethane	0.90J	ug/L	1.0	0.39	1		02/07/14 20:50	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 20:50	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 20:50	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		02/07/14 20:50	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		02/07/14 20:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		02/07/14 20:50	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:50	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		02/07/14 20:50	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		02/07/14 20:50	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		02/07/14 20:50	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 20:50	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 20:50	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:50	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 20:50	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		02/07/14 20:50	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 20:50	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 20:50	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 20:50	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 20:50	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 20:50	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 20:50	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 20:50	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 20:50	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 20:50	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 20:50	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 20:50	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 20:50	630-20-6	

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: SB8**      **Lab ID: 4091786008**      Collected: 02/04/14 11:05      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 20:50	79-34-5	
Tetrachloroethene	0.57J	ug/L	1.0	0.47	1		02/10/14 09:42	127-18-4	HS
Toluene	<0.44	ug/L	1.0	0.44	1		02/07/14 20:50	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 20:50	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 20:50	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 20:50	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 20:50	79-00-5	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		02/07/14 20:50	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 20:50	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 20:50	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 20:50	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 20:50	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 20:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95 %		43-137		1		02/07/14 20:50	460-00-4	
Dibromofluoromethane (S)	110 %		70-130		1		02/07/14 20:50	1868-53-7	
Toluene-d8 (S)	101 %		55-137		1		02/07/14 20:50	2037-26-5	

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: FD**      **Lab ID: 4091786009**      Collected: 02/04/14 00:00      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.018J</b>	ug/L	0.056	0.0071	1	02/06/14 12:00	02/07/14 11:40	83-32-9	
Acenaphthylene	<b>0.0072J</b>	ug/L	0.056	0.0059	1	02/06/14 12:00	02/07/14 11:40	208-96-8	
Anthracene	<b>0.038J</b>	ug/L	0.056	0.0069	1	02/06/14 12:00	02/07/14 11:40	120-12-7	B
Benzo(a)anthracene	<b>0.039J</b>	ug/L	0.056	0.0072	1	02/06/14 12:00	02/07/14 11:40	56-55-3	B
Benzo(a)pyrene	<b>0.042J</b>	ug/L	0.056	0.012	1	02/06/14 12:00	02/07/14 11:40	50-32-8	B
Benzo(b)fluoranthene	<b>0.056</b>	ug/L	0.056	0.0092	1	02/06/14 12:00	02/07/14 11:40	205-99-2	B
Benzo(g,h,i)perylene	<b>0.040J</b>	ug/L	0.056	0.010	1	02/06/14 12:00	02/07/14 11:40	191-24-2	B
Benzo(k)fluoranthene	<b>0.050J</b>	ug/L	0.056	0.013	1	02/06/14 12:00	02/07/14 11:40	207-08-9	B
Chrysene	<b>0.075</b>	ug/L	0.056	0.0089	1	02/06/14 12:00	02/07/14 11:40	218-01-9	B
Dibenz(a,h)anthracene	<b>0.023J</b>	ug/L	0.056	0.0082	1	02/06/14 12:00	02/07/14 11:40	53-70-3	B
Fluoranthene	<b>0.21</b>	ug/L	0.056	0.0064	1	02/06/14 12:00	02/07/14 11:40	206-44-0	
Fluorene	<b>0.035J</b>	ug/L	0.056	0.0080	1	02/06/14 12:00	02/07/14 11:40	86-73-7	B
Indeno(1,2,3-cd)pyrene	<b>0.036J</b>	ug/L	0.056	0.011	1	02/06/14 12:00	02/07/14 11:40	193-39-5	B
1-Methylnaphthalene	<b>0.066</b>	ug/L	0.056	0.0078	1	02/06/14 12:00	02/07/14 11:40	90-12-0	B
2-Methylnaphthalene	<b>0.10</b>	ug/L	0.056	0.0076	1	02/06/14 12:00	02/07/14 11:40	91-57-6	
Naphthalene	<b>0.035J</b>	ug/L	0.056	0.0057	1	02/06/14 12:00	02/07/14 11:40	91-20-3	B
Phenanthrene	<b>0.24</b>	ug/L	0.056	0.0061	1	02/06/14 12:00	02/07/14 11:40	85-01-8	B
Pyrene	<b>0.16</b>	ug/L	0.056	0.0066	1	02/06/14 12:00	02/07/14 11:40	129-00-0	B
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67 %		39-130		1	02/06/14 12:00	02/07/14 11:40	321-60-8	
Terphenyl-d14 (S)	94 %		73-155		1	02/06/14 12:00	02/07/14 11:40	1718-51-0	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	< <b>0.50</b>	ug/L	1.0	0.50	1		02/07/14 21:12	71-43-2	
Bromobenzene	< <b>0.48</b>	ug/L	1.0	0.48	1		02/07/14 21:12	108-86-1	
Bromochloromethane	< <b>0.49</b>	ug/L	1.0	0.49	1		02/07/14 21:12	74-97-5	
Bromodichloromethane	< <b>0.45</b>	ug/L	1.0	0.45	1		02/07/14 21:12	75-27-4	
Bromoform	< <b>0.33</b>	ug/L	1.0	0.33	1		02/07/14 21:12	75-25-2	
Bromomethane	< <b>0.43</b>	ug/L	5.0	0.43	1		02/07/14 21:12	74-83-9	
n-Butylbenzene	< <b>0.40</b>	ug/L	1.0	0.40	1		02/07/14 21:12	104-51-8	
sec-Butylbenzene	< <b>0.60</b>	ug/L	5.0	0.60	1		02/07/14 21:12	135-98-8	
tert-Butylbenzene	< <b>0.42</b>	ug/L	1.0	0.42	1		02/07/14 21:12	98-06-6	
Carbon tetrachloride	< <b>0.37</b>	ug/L	1.0	0.37	1		02/07/14 21:12	56-23-5	
Chlorobenzene	<b>0.37J</b>	ug/L	1.0	0.36	1		02/07/14 21:12	108-90-7	
Chloroethane	< <b>0.44</b>	ug/L	1.0	0.44	1		02/07/14 21:12	75-00-3	
Chloroform	< <b>0.69</b>	ug/L	5.0	0.69	1		02/07/14 21:12	67-66-3	
Chloromethane	<b>0.49J</b>	ug/L	1.0	0.39	1		02/07/14 21:12	74-87-3	
2-Chlorotoluene	< <b>0.48</b>	ug/L	1.0	0.48	1		02/07/14 21:12	95-49-8	
4-Chlorotoluene	< <b>0.48</b>	ug/L	1.0	0.48	1		02/07/14 21:12	106-43-4	
1,2-Dibromo-3-chloropropane	< <b>1.5</b>	ug/L	5.0	1.5	1		02/07/14 21:12	96-12-8	
Dibromochloromethane	< <b>1.9</b>	ug/L	5.0	1.9	1		02/07/14 21:12	124-48-1	
1,2-Dibromoethane (EDB)	< <b>0.38</b>	ug/L	1.0	0.38	1		02/07/14 21:12	106-93-4	
Dibromomethane	< <b>0.48</b>	ug/L	1.0	0.48	1		02/07/14 21:12	74-95-3	
1,2-Dichlorobenzene	< <b>0.44</b>	ug/L	1.0	0.44	1		02/07/14 21:12	95-50-1	
1,3-Dichlorobenzene	< <b>0.45</b>	ug/L	1.0	0.45	1		02/07/14 21:12	541-73-1	
1,4-Dichlorobenzene	< <b>0.43</b>	ug/L	1.0	0.43	1		02/07/14 21:12	106-46-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: FD**      **Lab ID: 4091786009**      Collected: 02/04/14 00:00      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 21:12	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 21:12	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 21:12	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 21:12	75-35-4	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.42	1		02/07/14 21:12	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 21:12	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 21:12	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 21:12	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 21:12	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 21:12	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 21:12	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 21:12	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 21:12	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 21:12	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 21:12	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 21:12	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 21:12	79-34-5	
Tetrachloroethene	10900	ug/L	100	47.2	100		02/10/14 10:28	127-18-4	
Toluene	0.50J	ug/L	1.0	0.44	1		02/07/14 21:12	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 21:12	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 21:12	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 21:12	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 21:12	79-00-5	
Trichloroethene	11.8	ug/L	1.0	0.36	1		02/07/14 21:12	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 21:12	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 21:12	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 21:12	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 21:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96 %		43-137		1		02/07/14 21:12	460-00-4	
Dibromofluoromethane (S)	109 %		70-130		1		02/07/14 21:12	1868-53-7	
Toluene-d8 (S)	95 %		55-137		1		02/07/14 21:12	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: TRIP BLANK**      **Lab ID: 4091786010**      Collected: 02/04/14 00:00      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	71-43-2	
Bromobenzene	<0.48	ug/L	1.0	0.48	1		02/07/14 21:35	108-86-1	
Bromochloromethane	<0.49	ug/L	1.0	0.49	1		02/07/14 21:35	74-97-5	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		02/07/14 21:35	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		02/07/14 21:35	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		02/07/14 21:35	74-83-9	
n-Butylbenzene	<0.40	ug/L	1.0	0.40	1		02/07/14 21:35	104-51-8	
sec-Butylbenzene	<0.60	ug/L	5.0	0.60	1		02/07/14 21:35	135-98-8	
tert-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/07/14 21:35	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/07/14 21:35	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		02/07/14 21:35	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 21:35	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		02/07/14 21:35	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		02/07/14 21:35	74-87-3	
2-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 21:35	95-49-8	
4-Chlorotoluene	<0.48	ug/L	1.0	0.48	1		02/07/14 21:35	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		02/07/14 21:35	96-12-8	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		02/07/14 21:35	124-48-1	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		02/07/14 21:35	106-93-4	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		02/07/14 21:35	74-95-3	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		02/07/14 21:35	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		02/07/14 21:35	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		02/07/14 21:35	106-46-7	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		02/07/14 21:35	75-71-8	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/14 21:35	75-34-3	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		02/07/14 21:35	107-06-2	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		02/07/14 21:35	75-35-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		02/07/14 21:35	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		02/07/14 21:35	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	78-87-5	
1,3-Dichloropropane	<0.46	ug/L	1.0	0.46	1		02/07/14 21:35	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	594-20-7	
1,1-Dichloropropene	<0.51	ug/L	1.0	0.51	1		02/07/14 21:35	563-58-6	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		02/07/14 21:35	10061-01-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		02/07/14 21:35	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	100-41-4	
Hexachloro-1,3-butadiene	<1.3	ug/L	5.0	1.3	1		02/07/14 21:35	87-68-3	
Isopropylbenzene (Cumene)	<0.34	ug/L	1.0	0.34	1		02/07/14 21:35	98-82-8	
p-Isopropyltoluene	<0.40	ug/L	1.0	0.40	1		02/07/14 21:35	99-87-6	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		02/07/14 21:35	75-09-2	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		02/07/14 21:35	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/07/14 21:35	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	103-65-1	
Styrene	<0.35	ug/L	1.0	0.35	1		02/07/14 21:35	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	1.0	0.45	1		02/07/14 21:35	630-20-6	

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### ANALYTICAL RESULTS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

**Sample: TRIP BLANK**      **Lab ID: 4091786010**      Collected: 02/04/14 00:00      Received: 02/05/14 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/07/14 21:35	79-34-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		02/10/14 09:20	127-18-4	HS
Toluene	<0.44	ug/L	1.0	0.44	1		02/07/14 21:35	108-88-3	
1,2,3-Trichlorobenzene	<0.77	ug/L	5.0	0.77	1		02/07/14 21:35	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		02/07/14 21:35	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		02/07/14 21:35	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		02/07/14 21:35	79-00-5	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		02/07/14 21:35	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		02/07/14 21:35	75-69-4	
1,2,3-Trichloropropane	<0.47	ug/L	1.0	0.47	1		02/07/14 21:35	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/07/14 21:35	75-01-4	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		02/07/14 21:35	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/07/14 21:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95 %		43-137		1		02/07/14 21:35	460-00-4	
Dibromofluoromethane (S)	109 %		70-130		1		02/07/14 21:35	1868-53-7	
Toluene-d8 (S)	102 %		55-137		1		02/07/14 21:35	2037-26-5	

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### QUALITY CONTROL DATA

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

METHOD BLANK: 928965

Matrix: Water

Associated Lab Samples: 4091786001, 4091786002, 4091786003, 4091786004, 4091786005, 4091786006, 4091786007, 4091786008, 4091786009, 4091786010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.3	5.0	02/07/14 07:29	
Isopropylbenzene (Cumene)	ug/L	<0.34	1.0	02/07/14 07:29	
m&p-Xylene	ug/L	<0.82	2.0	02/07/14 07:29	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	02/07/14 07:29	
Methylene Chloride	ug/L	<0.36	1.0	02/07/14 07:29	
n-Butylbenzene	ug/L	<0.40	1.0	02/07/14 07:29	
n-Propylbenzene	ug/L	<0.50	1.0	02/07/14 07:29	
Naphthalene	ug/L	<2.5	5.0	02/07/14 07:29	
o-Xylene	ug/L	<0.50	1.0	02/07/14 07:29	
p-Isopropyltoluene	ug/L	<0.40	1.0	02/07/14 07:29	
sec-Butylbenzene	ug/L	<0.60	5.0	02/07/14 07:29	
Styrene	ug/L	<0.35	1.0	02/07/14 07:29	
tert-Butylbenzene	ug/L	<0.42	1.0	02/07/14 07:29	
Tetrachloroethene	ug/L	<0.47	1.0	02/07/14 07:29	
Toluene	ug/L	<0.44	1.0	02/07/14 07:29	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	02/07/14 07:29	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	02/07/14 07:29	
Trichloroethene	ug/L	<0.36	1.0	02/07/14 07:29	
Trichlorofluoromethane	ug/L	<0.48	1.0	02/07/14 07:29	
Vinyl chloride	ug/L	<0.18	1.0	02/07/14 07:29	
4-Bromofluorobenzene (S)	%	95	43-137	02/07/14 07:29	
Dibromofluoromethane (S)	%	105	70-130	02/07/14 07:29	
Toluene-d8 (S)	%	102	55-137	02/07/14 07:29	

LABORATORY CONTROL SAMPLE & LCSD: 928966

928967

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.4	53.0	107	106	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	56.9	56.5	114	113	70-130	1	20	
1,1,2-Trichloroethane	ug/L	50	56.5	55.3	113	111	70-130	2	20	
1,1-Dichloroethane	ug/L	50	53.0	48.3	106	97	70-146	9	20	
1,1-Dichloroethene	ug/L	50	54.7	53.7	109	107	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	50	46.7	48.0	93	96	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	48.0	47.8	96	96	46-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	53.6	109	107	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	51.3	51.3	103	103	70-130	0	20	
1,2-Dichloroethane	ug/L	50	53.2	51.8	106	104	70-144	3	20	
1,2-Dichloropropane	ug/L	50	59.0	58.3	118	117	70-136	1	20	
1,3-Dichlorobenzene	ug/L	50	49.7	49.7	99	99	70-130	0	20	
1,4-Dichlorobenzene	ug/L	50	51.1	51.0	102	102	70-130	0	20	
Benzene	ug/L	50	48.5	47.9	97	96	70-137	1	20	
Bromodichloromethane	ug/L	50	57.4	58.8	115	118	70-133	2	20	
Bromoform	ug/L	50	52.5	52.8	105	106	59-130	0	20	
Bromomethane	ug/L	50	52.0	55.3	104	111	41-148	6	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

LABORATORY CONTROL SAMPLE & LCSD:		928966		928967						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/L	50	56.8	57.1	114	114	70-154	1	20	
Chlorobenzene	ug/L	50	55.6	54.8	111	110	70-130	1	20	
Chloroethane	ug/L	50	59.0	59.4	118	119	70-139	1	20	
Chloroform	ug/L	50	51.1	51.1	102	102	70-130	0	20	
Chloromethane	ug/L	50	52.1	55.1	104	110	45-154	6	20	
cis-1,2-Dichloroethene	ug/L	50	45.8	46.2	92	92	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	47.1	48.4	94	97	70-136	3	20	
Dibromochloromethane	ug/L	50	52.8	54.2	106	108	70-130	3	20	
Dichlorodifluoromethane	ug/L	50	63.9	63.2	128	126	20-157	1	20	
Ethylbenzene	ug/L	50	56.6	56.4	113	113	70-130	0	20	
Isopropylbenzene (Cumene)	ug/L	50	57.4	56.3	115	113	70-130	2	20	
m&p-Xylene	ug/L	100	114	113	114	113	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	46.6	46.2	93	92	59-141	1	20	
Methylene Chloride	ug/L	50	53.1	53.1	106	106	70-130	0	20	
o-Xylene	ug/L	50	55.6	56.2	111	112	70-130	1	20	
Styrene	ug/L	50	55.7	54.9	111	110	70-130	1	20	
Tetrachloroethene	ug/L	50	59.7	58.7	119	117	70-130	2	20	
Toluene	ug/L	50	54.8	54.2	110	108	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	51.4	50.7	103	101	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	50.0	50.6	100	101	55-135	1	20	
Trichloroethene	ug/L	50	56.0	55.6	112	111	70-130	1	20	
Trichlorofluoromethane	ug/L	50	53.0	52.3	106	105	50-150	1	20	
Vinyl chloride	ug/L	50	65.1	65.2	130	130	61-143	0	20	
4-Bromofluorobenzene (S)	%				111	110	43-137			
Dibromofluoromethane (S)	%				96	95	70-130			
Toluene-d8 (S)	%				105	104	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		928968		928969								
Parameter	Units	4091786005		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result							
1,1,1-Trichloroethane	ug/L	<44.3	5000	5000	5260	5210	105	104	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<38.4	5000	5000	5680	5700	114	114	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<39.0	5000	5000	5640	5570	113	111	70-130	1	20	
1,1-Dichloroethane	ug/L	<28.5	5000	5000	5270	5180	105	104	70-146	2	20	
1,1-Dichloroethene	ug/L	<42.7	5000	5000	5440	5350	109	107	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	<250	5000	5000	4500	4500	90	90	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<150	5000	5000	4660	4500	93	90	46-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	<38.1	5000	5000	5420	5300	108	106	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<43.9	5000	5000	5110	5030	102	101	70-130	1	20	
1,2-Dichloroethane	ug/L	<47.6	5000	5000	5430	5270	109	105	70-146	3	20	
1,2-Dichloropropane	ug/L	<49.8	5000	5000	5960	5800	119	116	70-136	3	20	
1,3-Dichlorobenzene	ug/L	<45.1	5000	5000	4920	4810	98	96	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<43.4	5000	5000	5110	4980	102	100	70-130	3	20	
Benzene	ug/L	<50.0	5000	5000	4870	4820	97	96	70-137	1	20	
Bromodichloromethane	ug/L	<45.3	5000	5000	5850	5850	117	117	70-133	0	20	
Bromoform	ug/L	<32.7	5000	5000	5080	5090	102	102	57-130	0	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928968			928969								
	Units	4091786005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromomethane	ug/L	<43.0	5000	5000	5210	5550	104	111	41-148	6	20	
Carbon tetrachloride	ug/L	<36.5	5000	5000	5640	5560	113	111	70-154	1	20	
Chlorobenzene	ug/L	<35.8	5000	5000	5490	5410	110	108	70-130	2	20	
Chloroethane	ug/L	<44.4	5000	5000	5820	5820	116	116	70-140	0	20	
Chloroform	ug/L	<68.9	5000	5000	5190	5110	104	102	70-130	2	20	
Chloromethane	ug/L	<38.8	5000	5000	5970	5630	119	113	45-154	6	20	
cis-1,2-Dichloroethene	ug/L	<41.9	5000	5000	4590	4550	92	91	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<29.0	5000	5000	4630	4620	93	92	70-136	0	20	
Dibromochloromethane	ug/L	<190	5000	5000	5320	5340	106	107	70-130	0	20	
Dichlorodifluoromethane	ug/L	<40.1	5000	5000	5680	5390	114	108	10-157	5	20	
Ethylbenzene	ug/L	<50.0	5000	5000	5750	5610	115	112	70-130	2	20	
Isopropylbenzene (Cumene)	ug/L	<34.1	5000	5000	5690	5610	114	112	70-130	1	20	
m&p-Xylene	ug/L	<81.7	10000	10000	11500	11200	115	112	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<49.4	5000	5000	4630	4580	93	92	59-141	1	20	
Methylene Chloride	ug/L	<35.9	5000	5000	5520	5370	110	107	70-130	3	20	
o-Xylene	ug/L	<50.0	5000	5000	5590	5570	112	111	70-130	0	20	
Styrene	ug/L	<35.0	5000	5000	5630	5520	113	110	35-164	2	20	
Tetrachloroethene	ug/L	9800	5000	5000	15700	15300	117	110	70-130	2	20	
Toluene	ug/L	<43.9	5000	5000	5510	5430	110	109	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<37.1	5000	5000	5190	5120	104	102	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<30.3	5000	5000	4740	4820	95	96	55-137	1	20	
Trichloroethene	ug/L	<36.4	5000	5000	5690	5610	114	112	70-130	1	20	
Trichlorofluoromethane	ug/L	<47.7	5000	5000	5200	5220	104	104	50-150	0	20	
Vinyl chloride	ug/L	<18.5	5000	5000	6360	6220	127	124	59-144	2	20	
4-Bromofluorobenzene (S)	%						110	111	43-137			
Dibromofluoromethane (S)	%						98	96	70-130			
Toluene-d8 (S)	%						105	105	55-137			

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

QC Batch: OEXT/21295

Analysis Method: EPA 8270 by HVI

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH by HVI

Associated Lab Samples: 4091786001, 4091786004, 4091786005, 4091786007, 4091786009

METHOD BLANK: 928987

Matrix: Water

Associated Lab Samples: 4091786001, 4091786004, 4091786005, 4091786007, 4091786009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.0089J	0.050	02/07/14 08:59	
2-Methylnaphthalene	ug/L	0.0081J	0.050	02/07/14 08:59	
Acenaphthene	ug/L	0.0070J	0.050	02/07/14 08:59	
Acenaphthylene	ug/L	0.0055J	0.050	02/07/14 08:59	
Anthracene	ug/L	0.0097J	0.050	02/07/14 08:59	
Benzo(a)anthracene	ug/L	0.015J	0.050	02/07/14 08:59	
Benzo(a)pyrene	ug/L	0.013J	0.050	02/07/14 08:59	
Benzo(b)fluoranthene	ug/L	0.014J	0.050	02/07/14 08:59	
Benzo(g,h,i)perylene	ug/L	0.014J	0.050	02/07/14 08:59	
Benzo(k)fluoranthene	ug/L	0.016J	0.050	02/07/14 08:59	
Chrysene	ug/L	0.017J	0.050	02/07/14 08:59	
Dibenz(a,h)anthracene	ug/L	0.010J	0.050	02/07/14 08:59	
Fluoranthene	ug/L	0.018J	0.050	02/07/14 08:59	
Fluorene	ug/L	0.010J	0.050	02/07/14 08:59	
Indeno(1,2,3-cd)pyrene	ug/L	0.015J	0.050	02/07/14 08:59	
Naphthalene	ug/L	0.0076J	0.050	02/07/14 08:59	
Phenanthrene	ug/L	0.031J	0.050	02/07/14 08:59	
Pyrene	ug/L	0.017J	0.050	02/07/14 08:59	
2-Fluorobiphenyl (S)	%	73	39-130	02/07/14 08:59	
Terphenyl-d14 (S)	%	112	73-155	02/07/14 08:59	

LABORATORY CONTROL SAMPLE: 928988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.14	69	23-130	
2-Methylnaphthalene	ug/L	.2	0.14	72	22-130	
Acenaphthene	ug/L	.2	0.15	73	31-130	
Acenaphthylene	ug/L	.2	0.14	72	31-130	
Anthracene	ug/L	.2	0.17	86	26-130	
Benzo(a)anthracene	ug/L	.2	0.20	100	47-130	
Benzo(a)pyrene	ug/L	.2	0.21	107	41-130	
Benzo(b)fluoranthene	ug/L	.2	0.21	105	37-130	
Benzo(g,h,i)perylene	ug/L	.2	0.22	108	37-130	
Benzo(k)fluoranthene	ug/L	.2	0.23	114	51-130	
Chrysene	ug/L	.2	0.22	109	50-130	
Dibenz(a,h)anthracene	ug/L	.2	0.23	115	34-130	
Fluoranthene	ug/L	.2	0.19	94	49-130	
Fluorene	ug/L	.2	0.16	80	30-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.23	114	36-130	
Naphthalene	ug/L	.2	0.12	62	24-130	
Phenanthrene	ug/L	.2	0.18	90	39-130	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

LABORATORY CONTROL SAMPLE: 928988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	.2	0.19	96	47-130	
2-Fluorobiphenyl (S)	%			69	39-130	
Terphenyl-d14 (S)	%			108	73-155	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928989 928990

Parameter	Units	4091786005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	<0.69	.18	.19	0.17	0.21	-62	-36	10-130	24	49	M1	
2-Methylnaphthalene	ug/L	<0.67	.18	.19	0.23	0.29	-186	-150	20-130	21	50	M1	
Acenaphthene	ug/L	<0.63	.18	.19	0.15	0.19	-169	-141	23-130	24	34	M1	
Acenaphthylene	ug/L	<0.52	.18	.19	0.13	0.17	62	78	31-130	23	37		
Anthracene	ug/L	1.3J	.18	.19	0.20	0.24	-588	-542	21-130	21	35	M1	
Benzo(a)anthracene	ug/L	6.0	.18	.19	0.24	0.38	-3190	-3000	10-166	44	27	M1,R1	
Benzo(a)pyrene	ug/L	9.2	.18	.19	0.28	0.46	-4920	-4650	10-138	50	28	M1,R1	
Benzo(b)fluoranthene	ug/L	10.4	.18	.19	0.31	0.54	-5560	-5240	10-149	52	27	M1,R1	
Benzo(g,h,i)perylene	ug/L	7.1	.18	.19	0.24	0.37	-3740	-3540	11-151	41	29	M1,R1	
Benzo(k)fluoranthene	ug/L	10.7	.18	.19	0.26	0.43	-5740	-5440	17-138	48	26	M1,R1	
Chrysene	ug/L	12.5	.18	.19	0.33	0.54	-6700	-6350	20-134	48	26	M1,R1	
Dibenz(a,h)anthracene	ug/L	2.4J	.18	.19	0.23	0.31	-1180	-1100	17-156	28	30	M1	
Fluoranthene	ug/L	28.0	.18	.19	0.48	0.92	-15200	-14400	40-130	62	26	M1,R1	
Fluorene	ug/L	<0.71	.18	.19	0.18	0.23	-151	-121	30-130	23	34	M1	
Indeno(1,2,3-cd)pyrene	ug/L	7.0	.18	.19	0.26	0.39	-3680	-3480	12-157	40	29	M1,R1	
Naphthalene	ug/L	<0.50	.18	.19	0.15	0.19	-80	-57	24-130	23	40	M1	
Phenanthrene	ug/L	13.0	.18	.19	0.49	0.80	-6900	-6490	28-130	47	30	M1,R1	
Pyrene	ug/L	19.5	.18	.19	0.43	0.78	-10500	-9900	16-145	57	25	M1,R1	
2-Fluorobiphenyl (S)	%						44	54	39-130				
Terphenyl-d14 (S)	%						82	97	73-155				

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## QUALIFIERS

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### BATCH QUALIFIERS

Batch: MSSV/6472

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: W121218 2578 WAUWATOSA AVE

Pace Project No.: 4091786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4091786001	SB1	EPA 3510	OEXT/21295	EPA 8270 by HVI	MSSV/6472
4091786004	SB4	EPA 3510	OEXT/21295	EPA 8270 by HVI	MSSV/6472
4091786005	SB5	EPA 3510	OEXT/21295	EPA 8270 by HVI	MSSV/6472
4091786007	SB7	EPA 3510	OEXT/21295	EPA 8270 by HVI	MSSV/6472
4091786009	FD	EPA 3510	OEXT/21295	EPA 8270 by HVI	MSSV/6472
4091786001	SB1	EPA 8260	MSV/23174		
4091786002	SB2	EPA 8260	MSV/23174		
4091786003	SB3	EPA 8260	MSV/23174		
4091786004	SB4	EPA 8260	MSV/23174		
4091786005	SB5	EPA 8260	MSV/23174		
4091786006	SB6	EPA 8260	MSV/23174		
4091786007	SB7	EPA 8260	MSV/23174		
4091786008	SB8	EPA 8260	MSV/23174		
4091786009	FD	EPA 8260	MSV/23174		
4091786010	TRIP BLANK	EPA 8260	MSV/23174		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Symbiant  
 Branch/Location: Westallis, WI  
 Project Contact: Jennifer Coe  
 Phone: \_\_\_\_\_  
 Project Number: W21216  
 Project Name: 2578 Wauwatese Ave  
 Project State: Wisconsin  
 Sampled By (Print): Jennifer Coe  
 Sampled By (Sign): JCO  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



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

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analysis Requested																
N	B	VOC																
N	A	PAH																

Quote #: \_\_\_\_\_  
 Mail To Contact: Jennifer Coe  
 Mail To Company: Symbiant  
 Mail To Address: 6737 W Washington St Westallis WI  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: SAA  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	Y/N	Pick Letter												
		DATE	TIME																
001	SB1	2/4/14	920	GW		X	X												
002	SB2		940			X													
003	SB3		1020			X													
004	SB4		848			X	X												
005	SB5		1115			X	X												
006	SB6		1130			X													
007	SB7		1040			X	X												
008	SB8		1105			X													
009	FD					X	X												
	MS					X	X												
	MSD					X	X												
010	Trip Blank*																		

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	3-40ml <sup>B</sup> 2-100ml <sup>Ag</sup> <sup>A</sup>	
	2-40ml <sup>B</sup>	
	3-40ml <sup>B</sup>	
	↓ 2-100ml <sup>Ag</sup> <sup>A</sup>	
	9-40ml <sup>B</sup> 6-100ml <sup>Ag</sup> <sup>A</sup>	
	3-40ml <sup>B</sup>	
	↓ 2-100ml <sup>Ag</sup> <sup>A</sup>	
	2-40ml <sup>B</sup>	
	3-40ml <sup>B</sup> 2-100ml <sup>Ag</sup> <sup>A</sup>	
	1-40ml <sup>B</sup>	

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

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

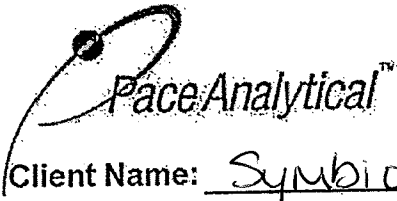
Relinquished By: <u>JCO</u> Date/Time: <u>2/4/14 2007</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>4091786</u> Receipt Temp = <u>7201</u> °C Sample Receipt pH <u>OK / Adjusted</u> Cooler Custody Seal <u>Present / Not Present</u> <u>Intact / Not Intact</u>
Relinquished By: <u>CS Logistic</u> Date/Time: <u>2/5/14 0920</u>	Received By: <u>M.V. a</u> Date/Time: <u>2/5/14 0920</u>	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

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

\* Address to COC by lab. 2/5/14 MV

Sample Condition Upon Receipt

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



Project #:

WO#: 4091786



4091786

Client Name: Symbiont

Courier:  Fed Ex  UPS  Client  Pace Other: CS Logistic

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

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used: NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature: 20 / 20 / Corr. Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Person examining contents:  
Date: 2/5/14  
Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10. 1 vial for trip blank received w/a broken septa. 2/5/14 MV
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. No time on MS/MSD volume. Matched by email from client as SB 5. 2-5-14 MV
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤ 2, NaOH + ZnAct ≥ 9, NaOH ≥ 12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. See comments 2/5/14 MV
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. Added to COC by lab 2/5/14 MV
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>317</u>		

If checked, see attached form for additional comments

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: 002 + 008 1 vial received labeled but not filled. 8 4oz p<sup>A</sup> returned unused. 002 1 vial, 003 3 vials, 005 5 vials, 006 1 vial, 007 1 vial, 008 1 vial + 009 1 vial has headspace. 2/5/14 MV

Project Manager Review: \_\_\_\_\_

UV

Date: 2/5/14

## Appendix D

### Container Inventory



Container Inventory  
2578 N Wauwatosa Ave, Wauwatosa WI

January 30th, 2014

Quantity	CAPACITY	TYPE	LABEL	CONDITION	LOCATION	EMPTY (E) NOT EMPTY (NE) UNKNOWN (U)	CORRESPONDING PHOTOGRAPH #	Comments
1	5-gallon	Plastic Bucket	Driveway Sealer	Fair	Basement	NE	1	
1	5-gallon	Metal	Unknown	Very Poor, corroded and rusted on bottom	Basement	E	1	Bottom rusted out
2	5-gallon	Green Plastic	No label, container indicated "chemical"	Good	Basement	E	2	Resembled gasoline "cans" excepted labeled as "chemical"
2	35-gallon	Fiber Drum	Oxalic acid	Poor	Basement	NE	3	
1	5-gallon	Bucket	Spot away	Poor	Basement	U	4	
1	35-gallon	Fiber Drum	Unknown	Poor	Basement	U	6	
1	15-gallon	Fiber Drum	Control Plus-rust remover	Poor	Basement	NE	5	
1	5-gallon	Bucket	Defense Floor Finish	Fair	Basement	NE	7	
1	50-pound	Bag	Sodium Methasilicate	Poor	Basement	NE	7	holes in bag
1	50-pound	Fiber Drum	Sentry (nothing else was legible)	Poor	Basement	U	8	The container label indicated capacity in pounds
2	15-gallon	Fiber Drum	Uniglo-whitener/brightener	Fair	Basement	NE	9 & 10	
1	55-gallon	Fiber Drum	No Label	Poor	Basement	U	11	Could not get to drum, it is located in the back corner of the basement
1	1-gallon	Bucket/Can	Spinner Oil	Fair	Basement	E	12	label hard to read
Multiple	<1-gallon	Bucket/Can	misc. paints/stains	Fair	Basement	NE	13 & 16	several containers, mostly stored on shelves
1	1-quart	Jar	Liquid Rubber	Good	Basement	NE	13	
1	15-gallon	Fiber Drum	Sour	poor	Basement	NE	14	
1	1-quart	Bottle	Transmission Fluid	Fair	Basement	E	19	
1	1-gallon	--	Insulating asphalt	Fair	Basement	U	16	Label indicated vinyl composition
1	1-gallon	bucket/can	Paint Stripper	Fair	Basement	NE	21	
1	1-gallon	bucket/can	Paint Remover	Poor	Basement	E	21	Corroded/rusted
1	1-quart	Bottle	Turbine oil	Fair	Basement	NE	22	
1	1-liter	Bottle	Muratic Acid	Good	Basement	NE	23	
1	5-gallon	Bucket	STG multipurposae isotex stabilizer	Fair	Basement	NE	24	
1	5-gallon	Bucket	Spray and Wipe Cleaner	Fair	Basement	NE	26	
1	1-gallon	Can/bucket	Unknown	Poor	Basement	E	25	Completely rusted
1	<1-quart	Can	Paint Remover	Good	1st floor	NE	28	
1	10-15-gallon	Fiber Drum	Unknown	Fair	1st floor	U	30	
3	unknown	Box	Oxidizer	poor	1st floor	NE	29	holes in boxes
1	unknown	Bag	Unknown	poor	Basement	NE	17	
1	5-gallon	Plastic	Unknown	Good	Basement	E	27	
1	5-gallon	Plastic Bucket	Adhesive	Good	Basement	U	20	
1	250-gallon	Metal AST	Unconfirmed/likely fuel oil	Good	Basement	E; however, it was not opened to verify	18	Observable surfaces of the AST were in good condition, could not observe the side against the wall
Multiple	<1-gallon	Plastic bottles	Unknown	Good	Basement	U	23	

2578 Wauwatosa Avenue Container Inventory Photos

Photo 1



Photo 2

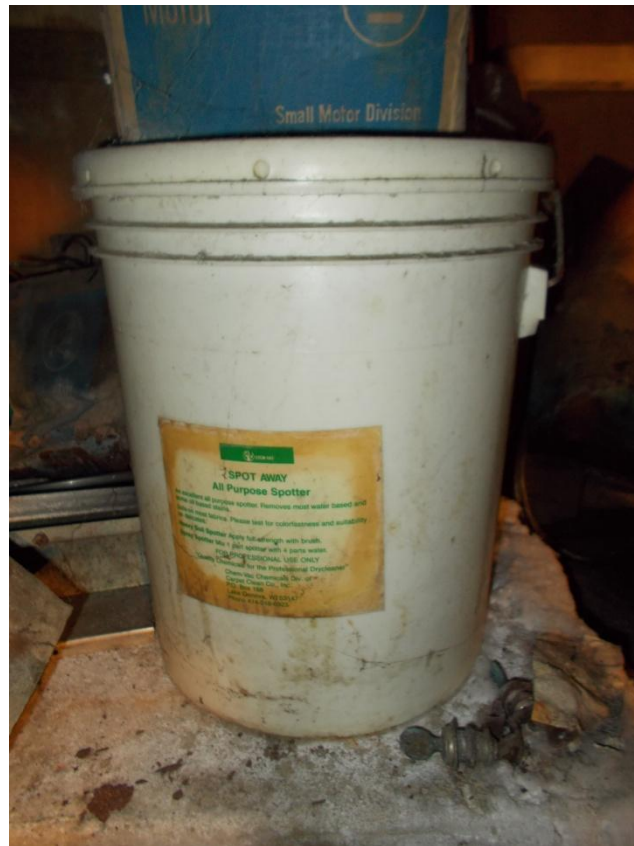


2578 Wauwatosa Avenue Container Inventory Photos

Photo 3



Photo 4



2578 Wauwatosa Avenue Container Inventory Photos

Photo 5



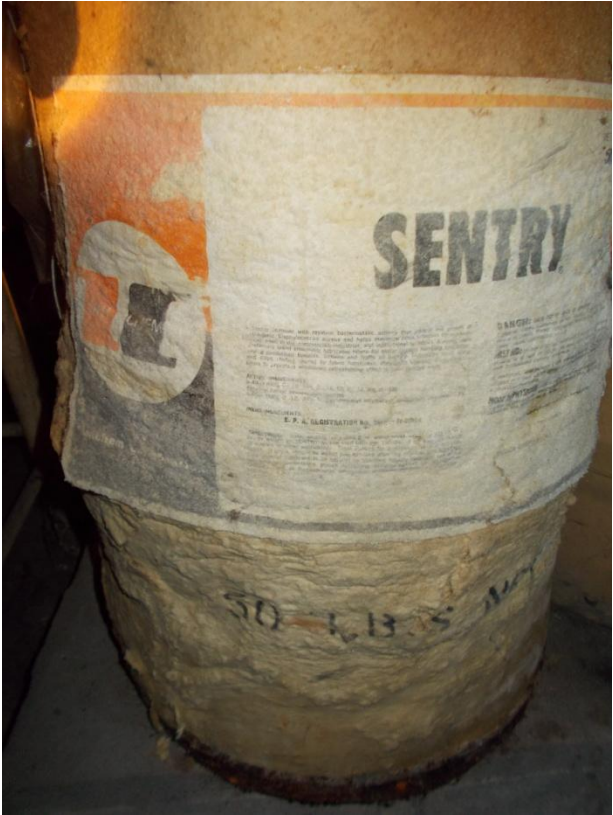
Photo 6



Photo 7



Photo 8



2578 Wauwatosa Avenue Container Inventory Photos

Photo 9

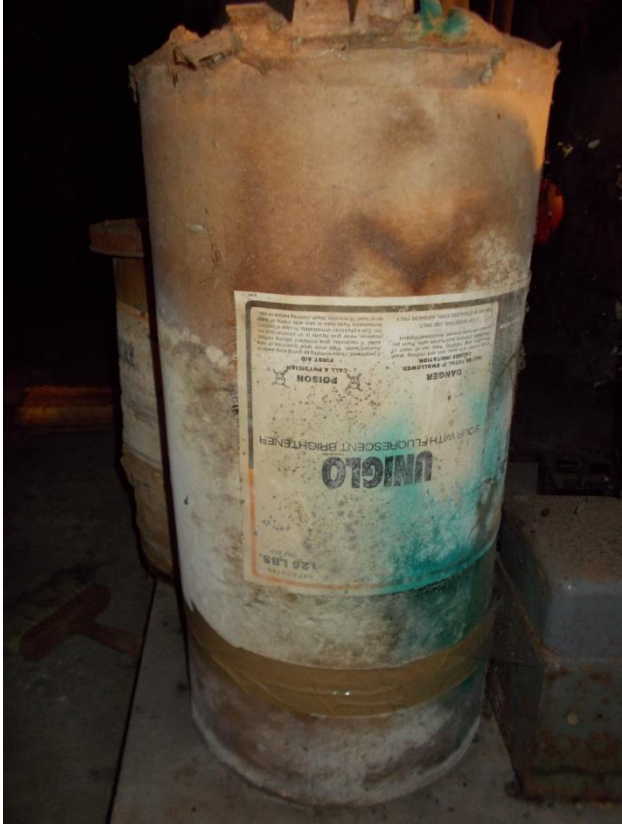


Photo 10



2578 Wauwatosa Avenue Container Inventory Photos

Photo 11



Photo 12







Photo 15



Photo 16



Photo 17



Photo 18



2578 Wauwatosa Avenue Container Inventory Photos

Photo 19



Photo 20



2578 Wauwatosa Avenue Container Inventory Photos

Photo 21



Photo 22





2578 Wauwatosa Avenue Container Inventory Photos

Photo 25

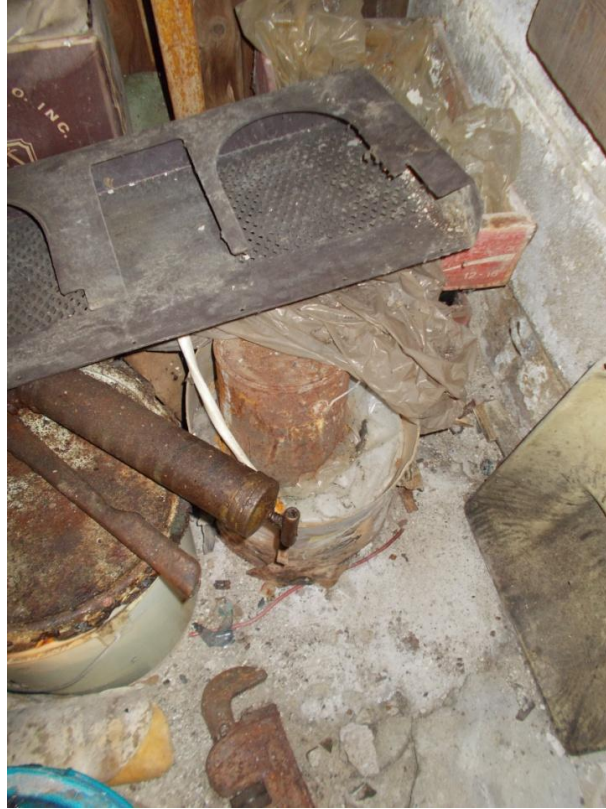


Photo 26



2578 Wauwatosa Avenue Container Inventory Photos

Photo 27



Photo 28



2578 Wauwatosa Avenue Container Inventory Photos

Photo 29



Photo 30

