PHASE II ENVIRONMENTAL SITE ASSESSMENT

AT:

FIRESTONE PROPERTY
S73 W16437 JANESVILLE ROAD
MUSKEGO, WISCONSIN 53150

PREPARED FOR:

WAUKESHA COUNTY
DEPARTMENT OF PARKS AND LAND USE
1320 PEWAUKEE ROAD
WAUKESHA, WISCONSIN 53188

PREPARED BY:

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PSI PROJECT NO. 0054151

June 9, 2009

Information To Build On
Engineering • Consulting • Testing

Matthew J. Dahlem
Project Geologist

Larry Raether, P.E.
Department Manager

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June 9, 2009

Waukesha County
Department of Parks and Land Use
1320 Pewaukee Road
Waukesha, WI 53188

Attn: Ms. Leslie Williams, RHSP, CHMM
Hazardous Materials Coordinator

Re: Phase II Environmental Site Assessment Report
Janesville Road (CTH L) Relocation Project
Firestone Property
S73 W16437 Janesville Road
Muskego, WI 53150
PSI Project No.: 0054151

Dear Ms. Williams:

Per your authorization of Professional Service Industries, Inc. (PSI) Proposal No. PO-054-9G0018, dated March 18, 2009, PSI has performed a Phase II Environmental Site Assessment in the right-of-way adjacent to the above referenced property. One hard copy and one electronic copy of the final report are enclosed.

Thank you for choosing PSI as your consultant for this project. If you have any questions, or if we can be of additional service, please call us at (262) 970-9022.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Matthew J. Dahlem
Project Geologist

Larry Raether, P.E.
Department Manager

Enclosures

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1.0 EXECUTIVE SUMMARY

Professional Service Industries, Inc, (PSI) completed a Phase I Environmental Site Assessment (ESA) for the Janesville Road (CTH L) relocation project in December 2007. The subject property for that assessment included an approximate 2.44 mile (12,883 feet) stretch of Janesville Road (CTH L), located between Racine Avenue (CTH Y) and Moorland Road (CTH O) in Muskego, Wisconsin. For the purposes of that assessment, the subject property consists of the road right-of-way located along the length of asphalt and concrete-paved roadway. The right-of-way, as defined for the Phase I ESA was considered to be 120-feet wide, or 60-feet in each direction from the road centerline.

The Phase I ESA identified several properties located along the right-of-way that pose a real or perceived risk for contamination within the subject right-of-way. One of those properties is located at S73 W16437 Janesville Road in Muskego, Wisconsin. This adjoining property is currently and has historically been utilized as an auto body shop. This adjoining property is currently owned by Firestone and is referred to herein as the Firestone Property. The Firestone Property is listed as being an underground storage tank (UST) site and a Conditionally Exempt Small Quantity Generator (CESQG). Since this adjoining property formerly and currently operates as an auto body shop and formerly owned a 500-gallon waste oil tank, there is a reasonable potential that this site has caused contamination within the subject property right-of-way.

PSI was authorized in April 2009 to complete Phase II ESA services along the Janesville Road right-of-way. On April 29, 2009, On-Site Environmental Services, Inc. advanced three soil probe borings within the right-of-way located adjacent to the Firestone Property. One soil sample was collected from each soil probe boring for laboratory analysis of diesel range organics (DRO), gasoline range organics (GRO), and petroleum volatile organic compounds (PVOCs). In one of the three soil probe borings, GRO was detected in the site soil at concentrations above the Wisconsin Department of Natural Resources (WDNR) suggested residual contaminant levels (RCLs) based on a non-industrial direct contact risk.

Two of the three soil probe borings were converted to temporary groundwater monitoring wells to facilitate groundwater sampling and analysis. Polynuclear aromatic hydrocarbons (PAHs) were present in one groundwater sample collected during the Phase II ESA at concentrations above NR 140 Enforcement Standards (ESs).

It is PSI's opinion that the contamination discovered within the right-of-way as discussed herein most likely originates from the Firestone Property. The person or party who possesses the property impacted by off-site contamination is required to provide immediate notification to the WDNR under ch. NR 706, Wis. Adm. Code, and s. 292.11 (2), Wis. Stats., regarding the presence of a discharge of a hazardous substance, even if it originates from a neighboring property. This notification would not be required only if the WDNR has already been notified about the contamination source. To PSI's knowledge, a spill has not been reported on the Firestone Property; therefore, the notification is required. If requested, PSI can make this notification on behalf of Waukesha County.

The party responsible for the discharge is required to investigate and if necessary remediate the contaminated media (i.e. soil and groundwater) to levels protective of human health and the environment. As such, the owners of the Firestone Property should be responsible for that work, assuming that the contamination does originate from their property. Once the contamination is reported, we recommend that Waukesha County seek a written determination under s. 292.13 Wis. Stats., which confirms the off-site liability exemption. We also recommend that Waukesha County inform the owners of the Firestone Property of the findings and their intent to seek an off-site liability exemption.

PSI also recommends that a Soil Management Plan be prepared for the Janesville Road relocation project. This plan would identify how the excavation work should be conducted in areas of known or suspect soil contamination, including that which will likely be encountered adjacent to the Firestone Property. The plan will also identify soil management, screening, and disposal or re-use options for excavated soil. During the earthwork, it is recommended that PSI be on-site whenever impacted soil is expected to be encountered to ensure that the plan is implemented as intended to protect human health and the environment.

This summary is not to be used alone. The report must be read in its entirety. It must also be understood that this report has been specifically prepared in response to the Firestone Property. Phase II ESA reports completed for other properties located along the project route will be submitted under separate cover.

2.0 INTRODUCTION

PSI has performed a Phase II ESA at the subject property. This report documents the field investigation activities performed, laboratory analytical results, and an evaluation of data relative to the environmental conditions investigated.

2.1 AUTHORIZATION

Authorization to perform this assessment, in accordance with PSI Proposal No. PO-054-9G0018, was given on April 16, 2009, by Ms. Leslie Williams, RHSP, CHMM, Hazardous Materials Coordinator of Waukesha County.

2.2 SITE DESCRIPTION

Professional Service Industries, Inc, (PSI) completed a Phase I Environmental Site Assessment (ESA) for the Janesville Road (CTH L) relocation project in December 2007. The subject property for that assessment included an approximate 2.44 mile (12,883 feet) stretch of Janesville Road (CTH L), located between Racine Avenue (CTH Y) and Moorland Road (CTH O) in Muskego, Wisconsin. For the purposes of that assessment, the subject property consists of the road right-of-way located along the length of asphalt and concrete-paved roadway. The right-of-way, as defined for the Phase I ESA was considered to be 120-feet wide, or 60-feet in each direction from the road centerline.

The Phase I ESA identified several properties located along the right-of-way that pose a real or perceived risk for contamination within the subject right-of-way. One of these properties is located at S73 W16437 Janesville Road in Muskego, Wisconsin. This adjoining property is currently and has historically been utilized as an auto body shop. This adjoining property is currently owned by Firestone. The Firestone Property is listed as being an underground storage tank (UST) site and a Conditionally Exempt Small Quantity Generator (CESQG). Since this adjoining property formerly and currently operates as an auto body shop and formerly owned a 500-gallon waste oil tank, there is a reasonable potential that this site has caused contamination within the subject property right-of-way.

The subject property, which consists of the right-of-way located adjacent to the Firestone Property, is geographically located in the Northeast ¼ of the Southwest ¼ of Section 10, Township 5 North, Range 20 East, in the City of Muskego, Waukesha County, State of Wisconsin. The site location is depicted on Figure 1, and the site vicinity layout is depicted on Figure 2.

2.3 PROJECT BACKGROUND

PSI completed a Phase I ESA of the subject property (PSI Report No. 054-7E017 dated December 7, 2007). As indicated in that report, the following recognized environmental conditions were identified with respect to the Firestone Property:

Recognized Environmental Conditions

According to the Phase I ESA report and the Wisconsin Department of Natural Resources (WDNR) regulatory files, the property located at S73 W16437 Janesville Road in Muskego, Wisconsin is listed as being an a UST and CESQG site. This site currently operates as an auto body shop.

According to the EDR database report, this site is identified as a UST site with a 500-gallon waste oil tank that was reportedly closed and filled with inert material. In addition, this address is listed in the Orphan Summary of the EDR database report as United Auto Body and is classified as a CESQG of waste generating less than 100 kg of non-acutely hazardous waste per month or less than 1 kg per month of acutely hazardous waste with no reported violations.

Assuming the Janesville Road right-of-way is 120-feet wide or 60-feet in each direction from the road centerline and since this adjoining property formerly and currently operates as an auto body shop and formerly owned a 500-gallon waste oil tank, there is a reasonable potential that this site has caused contamination within the subject property right-of-way. Therefore, this site represents evidence of a recognized environmental condition in connection with the subject property.

2.4 PURPOSE

The Phase II ESA was conducted to determine if the Firestone Property located at S73 W16437 Janesville Road in Muskego, Wisconsin caused contamination within the subject property right-of-way.

3.0 ASSESSMENT ACTIVITIES

Field activities performed as part of this Phase II ESA are described in the following sections.

3.1 SUBSURFACE EXPLORATION

Soil probe boring installation activities were conducted on April 29, 2009. Prior to commencement of the soil probe boring activities, On-Site Environmental Services, Inc. contacted utility locating services to locate all public and private underground utilities on and adjacent to the subject property.

Three soil probe borings, B-28 through B-30, were advanced by On-Site Environmental Services, Inc., under the direction of PSI, using a truck-mounted soil probe unit with a five foot macro core sampler and acetate liners. The locations of the soil probe borings were selected based on information obtained from PSI's December 7, 2007 Phase I ESA report. The soil probe boring locations are depicted on Figure 2. Mr. Matthew Dahlem, a Project Geologist for PSI, directed the soil probe boring and sampling activities. Each of the soil probe borings were completed to termination depths of 10 feet below ground surface (bgs). Information about the subsurface conditions observed in the borings was recorded on soil boring logs that are included in Appendix A. Investigation derived wastes generated during soil probe boring activities were containerized in a 55-gallon drum. This drum is temporarily being stored at the Muskego Community Development Authority property.

3.2 SOIL SCREENING AND OBSERVATIONS

Field screening for total volatile organic vapors during the subsurface soil investigation was performed at each sample interval. The headspace above each soil sample was screened with a Thermo Instruments 580B photoionization detector (PID) equipped with a 10.6 electron volt lamp. The PID was calibrated prior to use through the introduction of zero gas and subsequently a known concentration of isobutylene gas into the instrument. The manufacturer indicates that the sensitivity of the device is 1 part per million (ppm) for volatile organic compounds (VOCs) that have an ionization potential equal to or less than the lamp energy. The calibrated PID is used to detect total organic vapors in comparison to the isobutylene standard. Due to the inexact volume of the headspace and varying soil conditions, PID readings should only be considered a relative indication of VOC concentrations. The moisture contents of soil and humid atmospheric conditions have been found to produce inaccurate organic vapor readings due to condensation on the lamp.

To perform the field screening, each soil sample was placed in a resealable plastic bag and equilibrated to ambient temperature. Reported PID results were obtained by sampling the headspace above each soil sample and recording the maximum instrument reading.

During sampling activities, PID readings ranged from 0.0 to 8.1 ppm in each of the macro core samples from soil probe borings B-28 through B-30. The field screening results are included on the soil boring logs included in Appendix A.

3.3 SOIL SAMPLING

Soil samples were collected from each of the soil probe borings for the purposes of olfactory observation, field screening, and soil classification at continuous five-foot intervals using a direct-push macro core sampler with acetate liners. Three macro core samples were also collected from the soil probe borings for laboratory analysis. The laboratory samples were selected based on visual evidence of contamination, from the sample intervals that exhibited the highest PID readings, or from the soil-groundwater interface. Soil samples collected from soil probe borings advanced through asphalt were collected at a depth of at least three feet bgs in an effort to avoid erroneous readings that may be caused from the asphalt products themselves.

3.4 GROUNDWATER SAMPLING

After the soil probe borings were completed, temporary 1-inch diameter monitoring wells were inserted into two of the three boreholes (B-28 and B-30) to facilitate groundwater sample collection. Soil probe borings B-28 and B-30 were converted to temporary groundwater monitoring wells TW-28 and TW-30, respectively. Groundwater was encountered in temporary groundwater monitoring well TW-28, but not in TW-30.

PSI collected a groundwater sample from temporary monitoring well TW-28 for analysis. Upon completion of the groundwater sampling, the well screens were removed from the borings, and each of the three boreholes was then backfilled with chipped bentonite. The ground surface was then patched with concrete. The WDNR borehole abandonment forms are included in Appendix B.

3.5 ANALYTICAL PROGRAM

Samples were prepared in laboratory supplied containers using new, disposable Nitrile™ gloves. All samples were placed in a cooler packed with ice and transported under chain-of-custody to Pace Analytical Laboratory (PACE) in Green Bay, Wisconsin for chemical analysis performed on a normal turn-around basis.

Three soil samples were collected from the soil probe borings and were submitted for laboratory analysis of diesel range organics (DRO), gasoline range organics (GRO), and petroleum volatile organic compounds (PVOCs). One groundwater sample was collected from temporary groundwater monitoring well TW-28 and submitted for laboratory analysis of volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). Temporary monitoring well TW-30 did not produce enough groundwater for VOC or PAH analysis.

3.6 DECONTAMINATION PROCEDURES

Prior to fieldwork, the down-hole sampling equipment was decontaminated with an Alconox and potable water solution followed by a potable water rinse. New, disposable acetate liners were used for each sample collected and Nitrile™ gloves were worn by sampling personnel and changed between samples. These procedures were used to reduce the possibility of cross-contamination between samples and sample locations.

3.7 QUALITY ASSURANCE/QUALITY CONTROL

Equipment decontamination, sample collection, sample custody records, and analysis were performed in general accordance with methods prescribed by the United States Environmental Protection Agency (USEPA) and the WDNR.

4.0 DATA ANALYSIS & INTERPRETATION

Analysis and interpretation of the data generated during field investigation and laboratory testing is presented in the following sections. Where appropriate, the results are compared with regulatory limits for chemicals and compounds identified in the applicable media.

4.1 GEOMORPHOLOGY AND GEOLOGY

The 7.5-minute topographic maps of the area (Muskego & Hales Corners, WI Quadrangle, 1959, photorevised 1971 and 1976) indicates that the subject property near S73 W16437 Janesville Road in Muskego, Wisconsin ranges in elevation from 819 to 820 feet above mean sea level (Figure 1). Overall, gradient of the area appears to be south and southwest.

Based on review of the "Soil Survey of Milwaukee and Waukesha Counties, Wisconsin" publication developed by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS), in cooperation with the University of Wisconsin, issued July 1971, the soils in the area where the subject property is located are classified as the Ozaukee-Morley-Mequon association. These soils are well-drained to somewhat poorly drained soils that have a subsoil of silty clay loam and silty clay; formed in thin loess and silty clay loam glacial till, on moraines.

According to the Ice Age Deposits of Wisconsin Map (1964) and the Depth to Bedrock in Wisconsin Map (1973) published by the Wisconsin Geological and Natural History Survey, the unconsolidated deposits at the site are defined as ground moraine. The ground moraine contains predominantly till of unstratified clay, silt, sand, gravel, and boulders. These moraines are locally 200-400 feet thick and unconformably overlie the Silurian Niagara Dolomite.

The description of the site-specific subsurface conditions provided herein was derived from on site observations of soil samples collected only from the locations where borings were installed on April 29, 2009 during the Phase II ESA. The soil stratigraphy at the subject site generally included a ground surface of asphalt and gravel over fill material consisting of black to brown sand, silt, and silty clay. Beneath the fill material, the site soils consisted of native brown silty clay with gray and rust mottling. The fill material was encountered in each of the soil probe borings to depths of approximately 7.5 feet bgs. Bedrock was not encountered in any of the borings to the maximum depth explored (10 feet bgs). The subsurface conditions encountered during the Phase II ESA are documented on the boring logs contained in Appendix A.

4.2 HYDROGEOLOGY AND HYDROLOGY

The sandstone aquifer includes all of the Cambrian and Ordovician rocks between the Precambrian basement and the top of the Galena Dolomite. Because the water circulates between the various stratigraphic units of the sandstone aquifer, the aquifer acts as a single hydraulic unit. The overlying semipermeable Maquoketa Shale acts as a semi-confining bed and maintains artesian pressure in the sandstone aquifer.

The Niagara aquifer is the principal aquifer overlying the Maquoketa Shale in Waukesha County. This aquifer includes the Silurian dolomites that overly Maquoketa Shale. The Niagara aquifer extends over the area except for a few places where the Silurian rocks have been removed by erosion. Well yields are erratic and depend upon the size and the number of crevices and solution cavities in the aquifer that are tapped by a well. Water in the aquifer may be under artesian conditions where glacial tills overlie the dolomite. In most of Waukesha County, the glacial sand and gravel aquifers are connected hydrologically to the Niagara aquifer. Because water moves almost freely between the aquifers, they generally are considered to be a single hydrologic unit.

Water saturated glacial sand and gravel deposits above the bedrock form a third source of groundwater in Waukesha County. The glacial sand and gravel unit is discussed as a single aquifer, although it is not hydraulically continuous throughout the area. The glacial sand and gravel either is at land surface and extends down to the bedrock or is inter-bedded in less permeable silts and clay deposits.

The lateral movement of water in the uppermost glacial sand and gravel aquifer is locally towards streams and lakes. Where the glacial sand and gravel deposits are near the surface, the aquifer probably is unconfined and the water movement reflects the topography; where the glacial sand and gravel deposits are inter-bedded at depths in the silts and clay deposits, the lateral water movement in the aquifer may not be towards the nearest streams or lakes; where the glacial sand and gravel deposits are deep and overlie the Niagara Dolomite, the two aquifers probably are connected hydraulically, and the lateral water movement within the two aquifers is similar.

Based on our interpretation of the physical setting sources and our experience, PSI infers that the shallowest groundwater:

- Occurs at approximately 5 to 10-feet below ground surface;
- Exists under unconfined conditions;
- Regionally flows east towards Lake Michigan; and,
- Locally flows in a southerly/southwesterly direction.

Actual groundwater flow may be locally influenced by seasonal rainfall, proximity to surface bodies of water (lakes, rivers, canals), surface topography, underground structures, soil and bedrock geology, production wells and other factors beyond the scope of this study.

4.3 Soil Analytical Results

The WDNR currently uses generic soil standards established in NR 720.09 and NR 746.06 of the Wisconsin Administrative Code (WAC) for DRO, GRO, and select VOCs. The soil standards established in NR 720 for DRO and GRO are 100 milligrams per kilogram (mg/kg) in soils in which the permeability is greater than 1×10^{-6} centimeters per second (cm/sec), and 250 mg/kg for soils with permeability less than 1×10^{-6} cm/sec.

The WDNR has established generic soil RCLs in NR 720.09 and NR 746.06 for selected VOCs as follows. Generic RCLs established in NR 746.06 pertain only to those contaminants associated with discharges from petroleum storage tanks.

Substance	NR 720 RCL (μg/kg)	NR 746 RCL (μg/kg)
Benzene	5.5	8,500
1,2-Dichloroethane	4.9	600
Ethylbenzene	2,900	4,600
Toluene	1,500	38,000
Total Xylenes	4,100	42,000
1,2,4-Trimethylbenzene	None Established	83,000
13,5-Trimethylbenzene	None Established	11,000
Naphthalene	None Established	2,700

The soil sample analytical results were compared to non-industrial direct contact standards based on the use of the property. The soil sample laboratory analytical results indicate the following:

- GRO was detected in soil sample B-29 (3' – 5') at a concentration in excess of the WDNR NR 720 suggested RCL based on a non-industrial direct contact risk.

A summary of the soil analytical data is presented in Table 1. A copy of the laboratory analytical report is included in Appendix C.

4.4 Groundwater Analytical Results

Public health groundwater quality standards are established in WAC Chapter NR 140 for several contaminants. Two water quality standards, the Enforcement Standard (ES) and the Preventative Action Limit (PAL) have been established for substances of public health and welfare concern. The ES represents the concentration that requires the implementation of response measures, which typically consist of remedial action or additional investigations. The PAL represents a lower concentration, which typically requires an assessment of the potential for concentrations to exceed the enforcement standards and implementation of responses to prevent an exceedance of the enforcement standards.

Temporary groundwater monitoring wells TW-28 and TW-30 were installed in soil probe borings B-28 and B-30, respectively, on April 29, 2009. Temporary monitoring well TW-28 was sampled approximately 2½ hours after installation. The groundwater sample collected from TW-28 was submitted for laboratory analysis of VOCs and PAHs. Temporary monitoring well TW-30 did not produce enough groundwater for VOC or PAH analysis.

The groundwater sample analytical results indicate the following:

- PAH constituents' benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected at concentrations in excess of their respective NR 140 ESs in groundwater sample TW-28.

A summary of the groundwater analytical data is presented in Table 2. A copy of the laboratory analytical report is included in Appendix C.

5.0 CONCLUSIONS

PSI has performed a Phase II ESA at the subject site in substantive compliance with PSI Proposal No. PO-054-9G0018. Based on the results of this assessment, the following conclusions have been developed for this property.

5.1 CONCLUSIONS

- During PSI's investigation, the subsurface materials typically encountered in the soil borings consisted of asphalt and gravel over fill material consisting of black to brown sand, silt, and silty clay. Beneath the fill material, the site soils consisted of native brown silty clay with grey and rust mottling. The fill material was encountered in each of the soil probe borings to depths of approximately 7.5 feet bgs. The native silty clay material was encountered in each of the soil probe borings at approximately 7.5 feet bgs and continued to the depth at which the borings were terminated, 10-ft below ground surface (bgs). Bedrock was not encountered in any of the borings to the maximum depth explored (10 feet bgs). Groundwater was encountered between 5 and 10 feet bgs, but only one of the two temporary groundwater monitoring wells produced water sufficient for sampling.

- PSI assessed soil samples collected from three soil probes (B-28 through B-30) on April 29, 2009. GRO was detected in soil sample B-29 at a level exceeding the NR 720 suggested RCL. DRO constituents were not identified above regulatory standards in any of soil samples and PVOC constituents were not identified at level of concern in soil sample B-29. No GRO or PVOC constituents were detected at concentrations above laboratory detection limits in soil samples collected from B-28 and B-30.

- PSI assessed groundwater samples collected from one of the three soil probes (B-28/TW-28) on April 29, 2009. PAH contaminants benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected in the groundwater sample collected from TW-28 at levels exceeding NR 140 ESs. No VOC constituents were detected at concentrations above laboratory detection limits in the groundwater sample collected from TW-28. Temporary monitoring well TW-30 did not produce enough groundwater for VOC or PAH analysis.

6.0 RECOMMENDATIONS

PSI has performed a Phase II ESA at the subject site in substantive compliance with PSI Proposal No. PO-054-9G0018. Based on the results of this assessment, the following recommendations have been developed for this property.

6.1 RECOMMENDATIONS

- It is PSI's opinion that the contamination discovered within the right-of-way as discussed herein most likely originates from the Firestone Property. The person or party who possesses the property impacted by off-site contamination is required to provide immediate notification to the WDNR under ch. NR 706, Wis. Adm. Code, and s. 292.11 (2), Wis. Stats., regarding the presence of a discharge of a hazardous substance, even if it originates from a neighboring property. This notification would not be required only if the WDNR has already been notified about the contamination source. To PSI's knowledge, a spill has not been reported on the Firestone Property; therefore, the notification is required. If requested, PSI can make this notification on behalf of Waukesha County.

- The party responsible for the discharge is required to investigate and if necessary remediate the contaminated media (i.e. soil and groundwater) to levels protective of human health and the environment. As such, the owners of the Firestone Property should be responsible for that work, assuming that the contamination does originate from their property. Once the contamination is reported, we recommend that Waukesha County seek a written determination under s. 292.13 Wis. Stats., which confirms the off-site liability exemption. We also recommend that Waukesha County inform the owners of the Firestone Property of the findings and their intent to seek an off-site liability exemption.

- PSI also recommends that a Soil Management Plan be prepared for the Janesville Road relocation project. This plan would identify how the excavation work should be conducted in areas of known or suspect soil contamination, including that which will likely be encountered adjacent to the Firestone Property. The plan will also identify soil management, screening, and disposal or re-use options for excavated soil. During the earthwork, it is recommended that PSI be on-site whenever impacted soil is expected to be encountered to ensure that the plan is implemented as intended to protect human health and the environment.

7.0 REPRESENTATIONS

7.1 WARRANTY

The field observations, measurements, and research reported herein are considered sufficient in detail and scope to form a reasonable basis for the work performed at this site. The assessment, conclusions, and recommendations presented herein are based upon the subjective evaluation of limited data. They may not represent all conditions at the subject site as they reflect the information gathered from specific locations. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.

The soil and groundwater investigation of this site has been developed to provide the client with information regarding apparent indications of environmental concerns relating to the subject property. It is necessarily limited to the conditions observed and to the information available at the time of the work.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. PSI does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. PSI believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

7.2 USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with Waukesha County. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Waukesha County, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Reliance or any use of this report by anyone other than Waukesha County, for which it was prepared, is prohibited and therefore not foreseeable to PSI. Any unauthorized reliance on or use of this report, including any of the information or conclusions contained herein, will be at the third party's risk. No warranties or representations expressed or implied in this report are made to any such third party.

LIST OF TABLES

Table 1: Summary of Soil Sample Analytical Results
Table 2: Summary of Groundwater Sample Analytical Results

TABLE 1

Summary of Soil Sample Analytical Results
Janesville Road (CTH L) Relocation Project
Firestone Property
S73 W16437 Janesville Road
Muskego, Wisconsin

Analytical Parameter	Depth / Date / Units	B-28 3' - 5' 4/29/09	B-29 3' - 5' 4/29/09	B-30 5' - 7.5' 4/29/09	NR 720 RCL Direct Contact/ Non-Industrial	NR 746 RCL Groundwater Pathway	USGS Background
PID	i.u.	4	8.1	1.3	---	---	---
DRO	mg/kg	2.1	2.4	6.0	100	---	---
GRO	mg/kg	< 2.9	**150**	< 2.9	100	---	---
Detected PVOCs							
Ethylbenzene	ug/kg	< 25.0	939	< 25.0	2,900	4,600	---
1,2,4-Trimethylbenzene	ug/kg	< 25.0	759	< 25.0	---	83,000	---
1,3,5-Trimethylbenzene	ug/kg	< 25.0	1360	< 25.0	---	11,000	---
Total Xylene	ug/kg	< 75.0	731	< 75.0	4,100	42,000	

Notes:
Boxed concentrations exceed protection of groundwater RCL
Bold concentrations exceed non-industrial direct contact standard
--- - Not analyzed/Not Established
ND - Not detected above laboratory method detection limits
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
NAP - Not Applicable
DRO - diesel range organics
GRO - gasoline range organics
PID - photoionization detector
RCL - residual contaminant level
ug/kg -micrograms per kilogram, parts per billion
PVOC - petroleum volatile organic compounds
USGS - United States Geological Survey

TABLE 2

Summary of Groundwater Sample Analytical Results
Janesville Road (CTH L) Relocation Project
Firestone Property
S73 W16437 Janesville Road
Muskego, Wisconsin

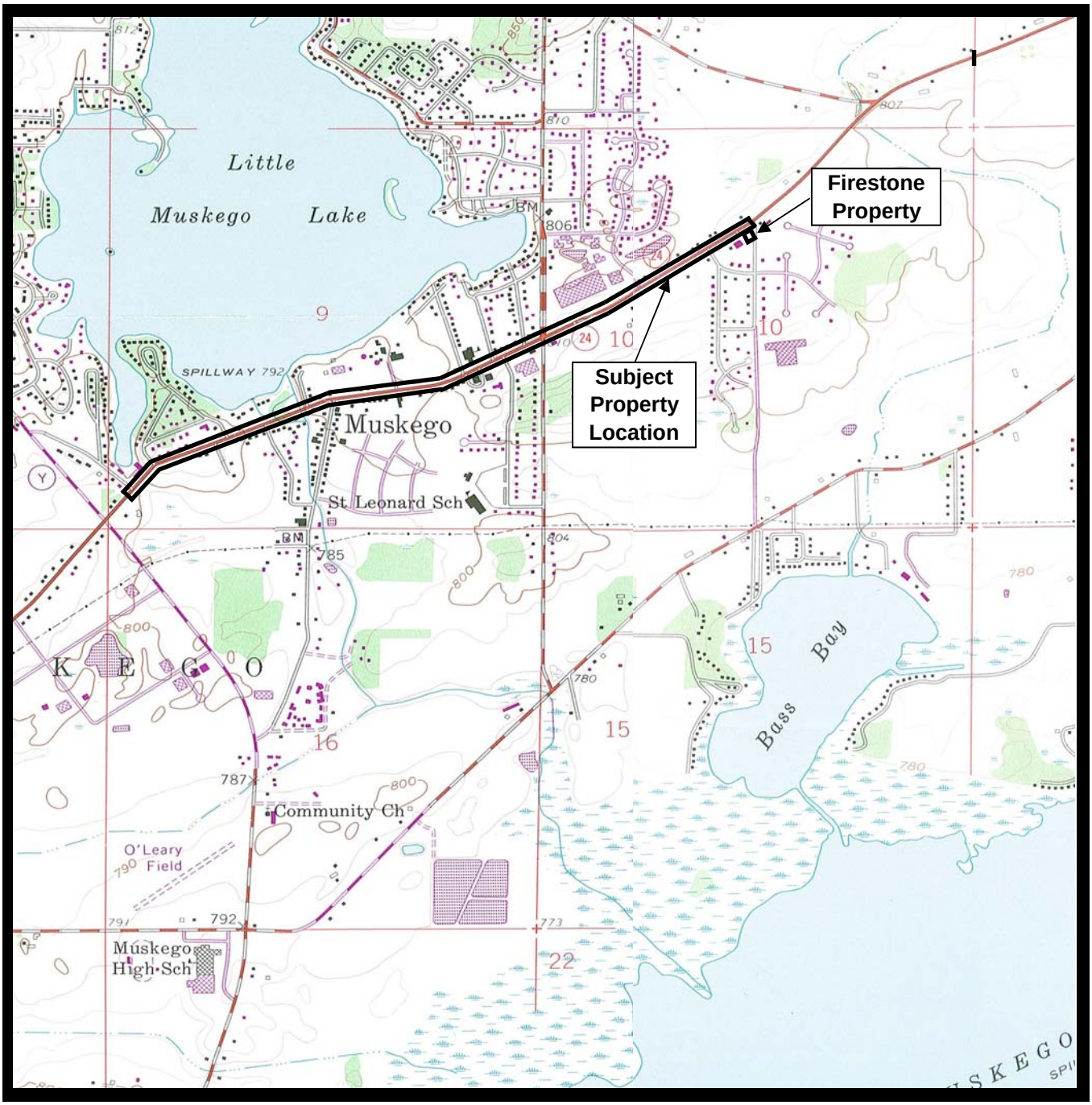
Analytical Parameter	Sample ID Date Units	TW-28 4/29/2009	NR 140 ES	NR 140 PAL
Detected VOCs	ug/l	ND	---	---
Detected PAHs				
Acenaphthene	ug/l	0.016 J	---	---
Acenaphthylene	ug/l	0.0090 J	---	---
Anthracene	ug/l	0.033 J	3,000	600
Benzo(a)anthracene	ug/l	0.19	---	---
Benzo(a)pyrene	ug/l	0.22	0.2	0.02
Benzo(b)fluoranthene	ug/l	0.24	0.2	0.02
Benzo(ghi)perylene	ug/l	0.20	---	---
Benzo(k)fluoranthene	ug/l	0.12	---	---
Chrysene	ug/l	0.22	0.2	0.02
Dibenz(a,h)anthracene	ug/l	0.045 J	---	---
Fluoranthene	ug/l	0.29	400	80
Fluorene	ug/l	0.017 J	400	80
Indeno(1,2,3-cd)pyrene	ug/l	0.13	---	---
1-Methylnaphthalene	ug/l	0.073	---	---
2-Methylnaphthalene	ug/l	0.11	---	---
Naphthalene	ug/l	0.072	40	8
Phenanthrene	ug/l	0.14	---	---
Pyrene	ug/l	0.28	250	50

Notes:

Boxed concentrations exceed NR 140 ES
Bold concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
ND - Not detected above laboratory method detection limits
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds

LIST OF FIGURES

Figure 1: Site Location Map
Figure 2: Site Vicinity Layout



Source: United States Geological Survey, Muskego & Hales Corners, Wisconsin, 7.5-Minute Topographic Maps, 1959, photorevised 1971 and 1976

N

SCALE 1:24,000
APPROXIMATE SCALE

0 1 2

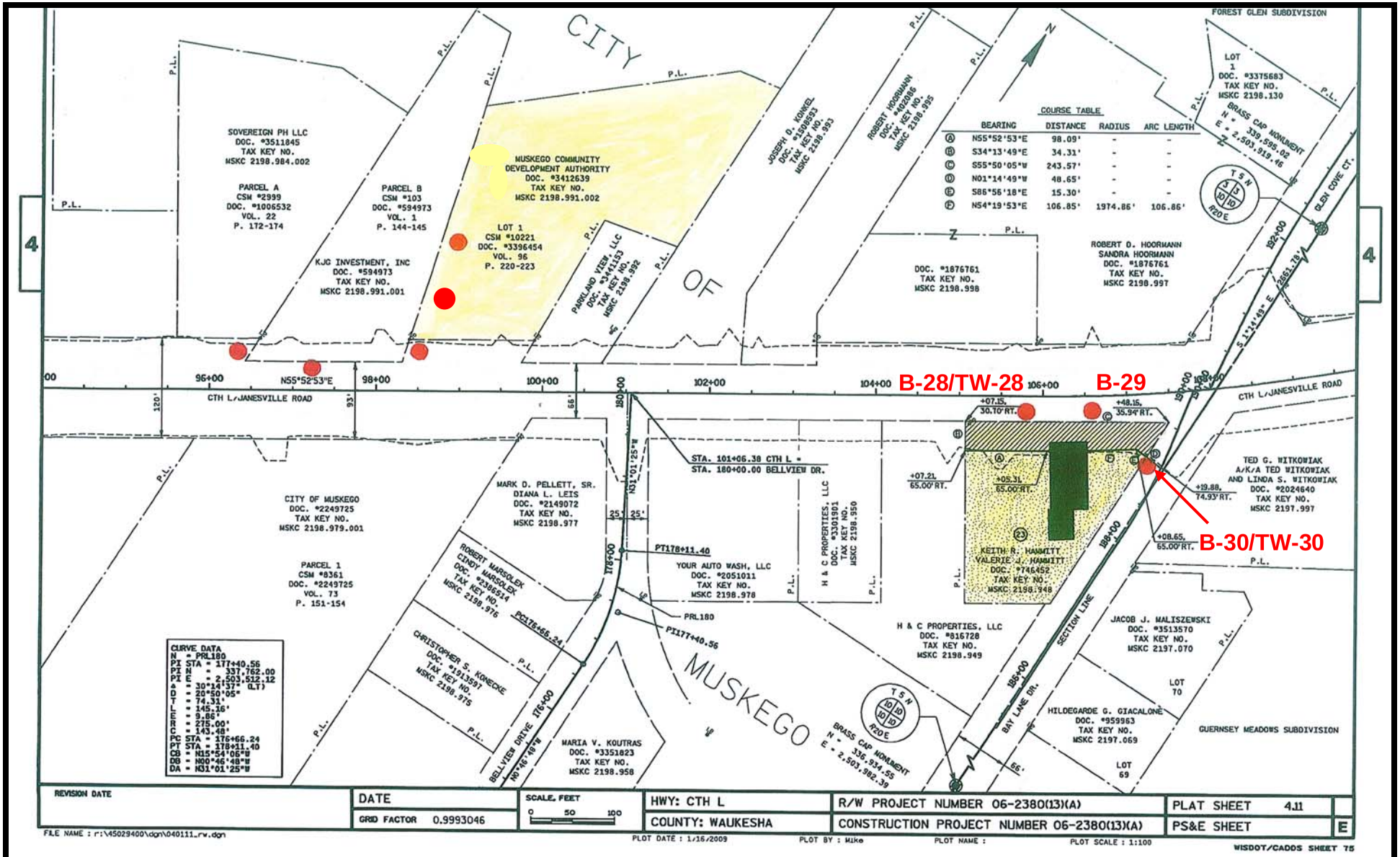
0 1000 2000 3000 4000 5000 6000 7000 8000 FEET

0 1 2 KILOMETERS

CONTOUR INTERVAL 10 FEET

Northeast 1/4 of the Southwest 1/4 of Section 10, Township 5 North, Range 20 East

psi Information To Build On Engineering • Consulting • Testing	Environmental Services W228 N727 Westmound Drive Waukesha, Wisconsin 53186 (262) 970-9022 Fax (262) 970-9032	Firestone Property S73 W16437 Janesville Road Muskego, Wisconsin **Site Location Map**	DATE: 4/29/2009	PROJECT NO: 0054151 **Figure 1**



Information To Build On
Engineering • Consulting • Testing

Environmental Services
W228 N727 Westmound Drive
Waukesha, Wisconsin 53186
(262) 970-9022 Fax (262) 970-9032

Figure 2
Firestone Property
Janesville Rd. Relocation Project
S73 W16437 Janesville Road
Muskego, Wisconsin

PSI Project Number:
0054151

*Not to Scale

APPENDICES

Appendix A: Soil Boring Logs
Appendix B: WDNR Borehole Abandonment Forms
Appendix C: Laboratory Analytical Reports

APPENDIX A

SOIL BORING LOGS

Professional Service Industries, Inc.
W228 N727 Westmound Drive, Suite A
Waukesha, WI 53186
Telephone: 262-970-9022
Fax: 262-970-9032

LOG OF BORING B-28

PSI Job No.:	0054151	Drilling Method:	Direct Push	WATER LEVELS	
Project:	Firestone Property	Sampling Method:	5' Macro Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	Not Obsvd.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	PID	MATERIAL DESCRIPTION Surface Elev.:	USCS Classification	SPT Blows per 6 inch	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ (× Moisture, ◪ PL, ✚ LL; 1–25–50) / STRENGTH, tsf (▲ Qu, ✳ Qp; 0–2.0–4.0)	Additional Remarks
	0			1	85	4.0	FILL, Asphalt, Gravel, Sand, Silt and Clay, Dry	Fill				
				2	85	4.0	FILL, Brown and Gray Silty Clay, Stiff, Moderate Plasticity, Dry	FILL				Sample 3'-5' Submitted for Laboratory Analysis
	5			3	100	1.3	FILL, Brown and Gray Silty Clay, Stiff, Moderate Plasticity, Dry	FILL				
				4	100	1.3	SILTY CLAY, Brown with Gray and Rust Mottling, Stiff, Semi-Moist, Low Plasticity, 5% Subrounded Coarse Sand - Pebbles	CL				
	10											

Completion Depth:	10.0 ft
Date Boring Started:	4/29/09
Date Boring Completed:	4/29/09
Logged By:	MD
Drilling Contractor:	On-Site

Sample Types:
- Auger Cutting
- Split-Spoon
- Rock Core
- Shelby Tube
- Hand Auger

Remarks:

The stratification lines represent approximate boundaries. The transition may be gradual.

Professional Service Industries, Inc.
W228 N727 Westmound Drive, Suite A
Waukesha, WI 53186
Telephone: 262-970-9022
Fax: 262-970-9032

LOG OF BORING B-29

PSI Job No.:	0054151	Drilling Method:	Direct Push	WATER LEVELS	
Project:	Firestone Property	Sampling Method:	5' Macro Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	Not Obsvd.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	PID	MATERIAL DESCRIPTION Surface Elev.:	USCS Classification	SPT Blows per 6 inch	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ (× Moisture, ◪ PL, ✚ LL; 1–25–50) / STRENGTH, tsf (▲ Qu, ✳ Qp; 0–2.0–4.0)	Additional Remarks
	0			1	85	5.4	FILL, Asphalt, Gravel, Sand and Silt, Dry	Fill				
				2	85	8.1	FILL, Dark Gray/Brown/Gray Silty Clay, Stiff, Dry, Low Plasticity	Fill				Sample 3'-5' Submitted for Laboratory Analysis
	5			3	100	1.3	FILL, Brown Silty Clay, Tan and Rust Mottling, Stiff, Dry, Low Plasticity, 5% Subrounded Medium Sand	Fill				
				4	100	1.3	SILTY CLAY, Brown with Gray and Rust Mottling, Stiff, Dry, Low Plasticity, 5% Subrounded Coarse San - Pebbles	CL				
	10						End of Boring at 10' bgs Groundwater Not Encountered					

Completion Depth:	10.0 ft	Sample Types:	Remarks:
Date Boring Started:	4/29/09	Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger	
Date Boring Completed:	4/29/09		
Logged By:	MD		
Drilling Contractor:	On-Site		

The stratification lines represent approximate boundaries. The transition may be gradual.

Professional Service Industries, Inc.
W228 N727 Westmound Drive, Suite A
Waukesha, WI 53186
Telephone: 262-970-9022
Fax: 262-970-9032

LOG OF BORING B-30

PSI Job No.:	0054151	Drilling Method:	Direct Push	WATER LEVELS	
Project:	Firestone Property	Sampling Method:	5' Macro Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	Not Obsvd.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	PID	MATERIAL DESCRIPTION Surface Elev.:	USCS Classification	SPT Blows per 6 inch	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ◎ (× Moisture, ◪ PL, ✚ LL; 1–25–50) / STRENGTH, tsf (▲ Qu, ✳ Qp; 0–2.0–4.0)	Additional Remarks
	0			1	60	1.3	FILL, Asphalt, Gravel and Silty Clay	Fill				
				2	60	1.3	FILL, Brown Silty Clay, Stiff, Semi-Moist, Low Plasticity	Fill				
	5			3	100	1.3	FILL, Brown/Gray/Tan Silty Clay, Dry, Stiff, Low Plasticity	Fill				Sample 5'-7.5' Submitted for Laboratory Analysis
				4	100	0.0	SILTY CLAY, Brown with Gray and Rust Mottling, Dry, Stiff, Low Plasticity, 5% Subrounded Coarse Sand	CL				
	10						End of Boring at 10' bgs Groundwater Not Encountered Temporary Well TW-30 Installed to 10' bgs, 5' Screen					

Completion Depth:	10.0 ft	Sample Types:	Remarks:
Date Boring Started:	4/29/09	Auger Cutting, Shelby Tube, Split-Spoon, Hand Auger, Rock Core	
Date Boring Completed:	4/29/09		
Logged By:	MD		
Drilling Contractor:	On-Site		

The stratification lines represent approximate boundaries. The transition may be gradual.

APPENDIX B

WDNR BOREHOLE ABANDONMENT FORMS

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County: Waukesha
WI Unique Well # of Removed Well: ___ ___ ___ ___ ___
Hicap #:
Lattitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N / __ __ ° __ __ . __ __ __ 'W
Method Code (see instructions): ___ ___ ___ ___ ___ ___
¼ / ¼ NE ¼ SW or Gov't Lot #
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
Lot #:
Reason For Removal From Service:
WI Unique Well # of Replacement Well: ___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Firestone Property
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 573 W16437
City of Present Owner: Muskego
State: WI
ZIP Code: 53150

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 04/29/2009
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 10

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): Between 5 and 10

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☒
Liner(s) removed?	☐	☐	☒
Screen removed?	☒	☐	☐
Casing left in place?	☐	☒	☐
Was casing cut off below surface?	☐	☒	☐
Did sealing material rise to surface?	☐	☐	☒
Did material settle after 24 hours?	☐	☐	☒
If yes, was hole retopped?	☐	☐	☒
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☒	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☒ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Concrete	Surface	0.1		
Bentonite Chips	0.1	10	0.5	

6. Comments

B-28 / TW-28

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #:
Date of Filling & Sealing (mm/dd/yyyy): 04/29/2009
Street or Route: W228 N727 Westmound Drive, Suite A
Telephone Number: (262) 970-9022
City: Waukesha
State: WI
ZIP Code: 53186
Signature of Person Doing Work: Matt [signature]
Date Signed: 04/29/2009

DNR Use Only
Date Received:
Noted By:
Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County: Waukesha
WI Unique Well # of Removed Well: _ _ _ _ _
Hicap #:
Lattitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N / __ __ ° __ __ . __ __ __ 'W
Method Code (see instructions): _ _ _ _ _ _
¼ / ¼: NE ¼: SW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
Lot #:
Reason For Removal From Service:
WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name: Firestone Property
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 573 W16437
City of Present Owner: Muskego
State: WI
ZIP Code: 53150

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 04/29/2009
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.):
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.):
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?:
Depth to Water (feet): >10

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☒
Liner(s) removed?	☐	☐	☒
Screen removed?	☐	☐	☒
Casing left in place?	☐	☐	☒
Was casing cut off below surface?	☐	☐	☒
Did sealing material rise to surface?	☐	☐	☒
Did material settle after 24 hours?	☐	☐	☒
If yes, was hole retopped?	☐	☐	☒
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☒	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☒ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Concrete	Surface	0.1		
Bentonite Chips	0.1	10	0.5	

6. Comments

B-29

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #:
Date of Filling & Sealing (mm/dd/yyyy): 04/29/2009
Street or Route: W228 N727 Westmound Drive, Suite A
Telephone Number: (262) 970-9022
City: Waukesha
State: WI
ZIP Code: 53186
Signature of Person Doing Work: Matt
Date Signed: 04/29/2009

DNR Use Only
Date Received:
Noted By:
Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County: Waukesha
WI Unique Well # of Removed Well: _ _ _ _ _
Hicap #:
Lattitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N / __ __ ° __ __ . __ __ __ 'W
Method Code (see instructions):
¼ / ¼: NE ¼: SW
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
or Gov't Lot #:
Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
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Facility ID (FID or PWS):
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☐ Water Well
☒ Borehole / Drillhole

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Formation Type:
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Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 10
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): > 10

4. Pump, Liner, Screen, Casing & Sealing Material

	Yes	No	N/A
Pump and piping removed?	☐	☐	☒
Liner(s) removed?	☐	☐	☒
Screen removed?	☒	☐	☐
Casing left in place?	☐	☒	☐
Was casing cut off below surface?	☐	☒	☐
Did sealing material rise to surface?	☐	☐	☒
Did material settle after 24 hours?	☐	☐	☒
If yes, was hole retopped?	☐	☐	☒
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☒	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
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For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Concrete	Surface	0.1		
Bentonite Chips	0.1	10	0.5	

6. Comments

B-30 / TW-30

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #:
Date of Filling & Sealing (mm/dd/yyyy): 04/29/2009
Street or Route: W228 N727 Westmound Drive, Suite A
Telephone Number: (262) 970-9022
City: Waukesha
State: WI
ZIP Code: 53186
Signature of Person Doing Work: Matt [signature]
Date Signed: 04/29/2009

DNR Use Only
Date Received:
Noted By:
Comments:

APPENDIX C

LABORATORY ANALYTICAL REPORTS

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

May 14, 2009

Matt Dahlem
PSI Incorporated
W228 N727 Westmound Drive
SUITE A
Waukesha, WI 53186

RE: Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Dear Matt Dahlem:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

CERTIFICATIONS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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

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

SAMPLE SUMMARY

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4016789020	**TRIP BLANK**	Water	04/29/09 00:00	04/30/09 17:00
4016789010	**B-28 (3-5)**	Solid	04/29/09 12:20	04/30/09 17:00
4016789011	**B-29 (3-5)**	Solid	04/29/09 12:40	04/30/09 17:00
4016789012	**B-30 (5-7.5)**	Solid	04/29/09 13:00	04/30/09 17:00
4016789017	**TW-28**	Water	04/29/09 14:45	04/30/09 17:00

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

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

SAMPLE ANALYTE COUNT

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4016789010	**B-28 (3-5)**	ASTM D2974-87	MRN	1	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
4016789011	**B-29 (3-5)**	ASTM D2974-87	MRN	1	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
4016789012	**B-30 (5-7.5)**	ASTM D2974-87	MRN	1	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
4016789017	**TW-28**	EPA 8260	SMT	64	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: TRIP BLANK **Lab ID: 4016789020** Collected: 04/29/09 00:00 Received: 04/30/09 17:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		05/04/09 11:21	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		05/04/09 11:21	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		05/04/09 11:21	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		05/04/09 11:21	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		05/04/09 11:21	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		05/04/09 11:21	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		05/04/09 11:21	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		05/04/09 11:21	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/04/09 11:21	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		05/04/09 11:21	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		05/04/09 11:21	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		05/04/09 11:21	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/04/09 11:21	67-66-3	L1
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		05/04/09 11:21	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		05/04/09 11:21	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		05/04/09 11:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		05/04/09 11:21	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		05/04/09 11:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		05/04/09 11:21	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		05/04/09 11:21	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		05/04/09 11:21	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		05/04/09 11:21	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		05/04/09 11:21	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		05/04/09 11:21	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		05/04/09 11:21	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		05/04/09 11:21	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		05/04/09 11:21	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		05/04/09 11:21	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		05/04/09 11:21	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		05/04/09 11:21	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		05/04/09 11:21	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		05/04/09 11:21	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		05/04/09 11:21	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		05/04/09 11:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		05/04/09 11:21	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		05/04/09 11:21	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		05/04/09 11:21	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		05/04/09 11:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		05/04/09 11:21	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		05/04/09 11:21	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		05/04/09 11:21	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		05/04/09 11:21	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		05/04/09 11:21	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		05/04/09 11:21	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		05/04/09 11:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		05/04/09 11:21	630-20-6	

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ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: TRIP BLANK **Lab ID: 4016789020** Collected: 04/29/09 00:00 Received: 04/30/09 17:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		05/04/09 11:21	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		05/04/09 11:21	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		05/04/09 11:21	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		05/04/09 11:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		05/04/09 11:21	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		05/04/09 11:21	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		05/04/09 11:21	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		05/04/09 11:21	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		05/04/09 11:21	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		05/04/09 11:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/04/09 11:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		05/04/09 11:21	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/04/09 11:21	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		05/04/09 11:21	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		05/04/09 11:21	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		05/04/09 11:21	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		05/04/09 11:21	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/04/09 11:21	2037-26-5	

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ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: B-28 (3-5) **Lab ID: 4016789010** Collected: 04/29/09 12:20 Received: 04/30/09 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO			Preparation Method: WI MOD DRO					
Diesel Range Organics	**2.1**	mg/kg	2.0	0.83	1	05/06/09 12:42	05/07/09 10:22		Z2
WIGRO GCV	Analytical Method: WI MOD GRO			Preparation Method: TPH GRO/PVOC WI ext.					
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	100-41-4	W
Gasoline Range Organics	**<2.9**	mg/kg	2.9	2.9	1	05/05/09 10:35	05/05/09 16:25		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/05/09 10:35	05/05/09 16:25	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/05/09 10:35	05/05/09 16:25	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:25	95-47-6	W
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	05/05/09 10:35	05/05/09 16:25	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.5**	%	0.10	0.10	1		05/05/09 08:40		

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ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: B-29 (3-5) **Lab ID: 4016789011** Collected: 04/29/09 12:40 Received: 04/30/09 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO		Preparation Method: WI MOD DRO						
Diesel Range Organics	**2.4**	mg/kg	1.9	0.81	1	05/06/09 12:42	05/07/09 10:34		Z2
WIGRO GCV	Analytical Method: WI MOD GRO		Preparation Method: TPH GRO/PVOC WI ext.						
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 13:25	71-43-2	W
Ethylbenzene	**939**	ug/kg	70.1	29.2	1	05/05/09 10:35	05/05/09 13:25	100-41-4	
Gasoline Range Organics	**150**	mg/kg	2.9	2.9	1	05/05/09 10:35	05/05/09 13:25		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 13:25	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 13:25	108-88-3	W
1,2,4-Trimethylbenzene	**759**	ug/kg	70.1	29.2	1	05/05/09 10:35	05/05/09 13:25	95-63-6	
1,3,5-Trimethylbenzene	**1360**	ug/kg	70.1	29.2	1	05/05/09 10:35	05/05/09 13:25	108-67-8	
Xylene (Total)	**731**	ug/kg	210	87.6	1	05/05/09 10:35	05/05/09 13:25	1330-20-7	
m&p-Xylene	**731**	ug/kg	140	58.4	1	05/05/09 10:35	05/05/09 13:25	1330-20-7	
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 13:25	95-47-6	W
a,a,a-Trifluorotoluene (S)	112	%	80-120		1	05/05/09 10:35	05/05/09 13:25	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		05/05/09 08:40		

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ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: B-30 (5-7.5) **Lab ID: 4016789012** Collected: 04/29/09 13:00 Received: 04/30/09 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO			Preparation Method: WI MOD DRO					
Diesel Range Organics	**6.0**	mg/kg	2.0	0.82	1	05/06/09 12:42	05/07/09 10:46		Z2
WIGRO GCV	Analytical Method: WI MOD GRO			Preparation Method: TPH GRO/PVOC WI ext.					
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	100-41-4	W
Gasoline Range Organics	**<2.9**	mg/kg	2.9	2.9	1	05/05/09 10:35	05/05/09 16:51		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	05/05/09 10:35	05/05/09 16:51	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/05/09 10:35	05/05/09 16:51	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/05/09 10:35	05/05/09 16:51	95-47-6	W
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	05/05/09 10:35	05/05/09 16:51	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.3**	%	0.10	0.10	1		05/05/09 08:40		

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ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: TW-28 **Lab ID: 4016789017** Collected: 04/29/09 14:45 Received: 04/30/09 17:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.016J**	ug/L	0.050	0.0083	1	05/05/09 07:30	05/05/09 16:37	83-32-9	
Acenaphthylene	**0.0090J**	ug/L	0.050	0.0053	1	05/05/09 07:30	05/05/09 16:37	208-96-8	
Anthracene	**0.033J**	ug/L	0.050	0.0069	1	05/05/09 07:30	05/05/09 16:37	120-12-7	Z2
Benzo(a)anthracene	**0.19**	ug/L	0.050	0.0037	1	05/05/09 07:30	05/05/09 16:37	56-55-3	Z2
Benzo(a)pyrene	**0.22**	ug/L	0.050	0.0057	1	05/05/09 07:30	05/05/09 16:37	50-32-8	Z2
Benzo(b)fluoranthene	**0.24**	ug/L	0.050	0.0055	1	05/05/09 07:30	05/05/09 16:37	205-99-2	Z2
Benzo(g,h,i)perylene	**0.20**	ug/L	0.050	0.0066	1	05/05/09 07:30	05/05/09 16:37	191-24-2	Z2
Benzo(k)fluoranthene	**0.12**	ug/L	0.050	0.0082	1	05/05/09 07:30	05/05/09 16:37	207-08-9	Z2
Chrysene	**0.22**	ug/L	0.050	0.0074	1	05/05/09 07:30	05/05/09 16:37	218-01-9	Z2
Dibenz(a,h)anthracene	**0.045J**	ug/L	0.050	0.0046	1	05/05/09 07:30	05/05/09 16:37	53-70-3	Z2
Fluoranthene	**0.29**	ug/L	0.050	0.0057	1	05/05/09 07:30	05/05/09 16:37	206-44-0	Z2
Fluorene	**0.017J**	ug/L	0.050	0.0066	1	05/05/09 07:30	05/05/09 16:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.13**	ug/L	0.050	0.0038	1	05/05/09 07:30	05/05/09 16:37	193-39-5	Z2
1-Methylnaphthalene	**0.073**	ug/L	0.050	0.010	1	05/05/09 07:30	05/05/09 16:37	90-12-0	
2-Methylnaphthalene	**0.11**	ug/L	0.050	0.011	1	05/05/09 07:30	05/05/09 16:37	91-57-6	
Naphthalene	**0.072**	ug/L	0.050	0.017	1	05/05/09 07:30	05/05/09 16:37	91-20-3	L1
Phenanthrene	**0.14**	ug/L	0.050	0.0079	1	05/05/09 07:30	05/05/09 16:37	85-01-8	Z2
Pyrene	**0.28**	ug/L	0.050	0.0072	1	05/05/09 07:30	05/05/09 16:37	129-00-0	Z2
2-Fluorobiphenyl (S)	98	%	25-130		1	05/05/09 07:30	05/05/09 16:37	321-60-8	
Terphenyl-d14 (S)	118	%	36-140		1	05/05/09 07:30	05/05/09 16:37	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		05/05/09 17:20	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		05/05/09 17:20	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		05/05/09 17:20	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		05/05/09 17:20	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		05/05/09 17:20	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		05/05/09 17:20	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		05/05/09 17:20	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		05/05/09 17:20	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/05/09 17:20	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		05/05/09 17:20	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		05/05/09 17:20	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		05/05/09 17:20	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/05/09 17:20	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		05/05/09 17:20	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		05/05/09 17:20	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		05/05/09 17:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		05/05/09 17:20	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		05/05/09 17:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		05/05/09 17:20	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		05/05/09 17:20	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		05/05/09 17:20	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		05/05/09 17:20	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		05/05/09 17:20	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		05/05/09 17:20	75-71-8	

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ANALYTICAL RESULTS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

Sample: TW-28 **Lab ID: 4016789017** Collected: 04/29/09 14:45 Received: 04/30/09 17:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		05/05/09 17:20	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		05/05/09 17:20	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		05/05/09 17:20	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		05/05/09 17:20	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		05/05/09 17:20	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		05/05/09 17:20	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		05/05/09 17:20	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		05/05/09 17:20	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		05/05/09 17:20	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		05/05/09 17:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		05/05/09 17:20	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		05/05/09 17:20	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		05/05/09 17:20	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		05/05/09 17:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		05/05/09 17:20	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		05/05/09 17:20	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		05/05/09 17:20	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		05/05/09 17:20	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		05/05/09 17:20	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		05/05/09 17:20	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		05/05/09 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		05/05/09 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		05/05/09 17:20	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		05/05/09 17:20	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		05/05/09 17:20	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		05/05/09 17:20	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		05/05/09 17:20	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		05/05/09 17:20	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		05/05/09 17:20	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		05/05/09 17:20	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		05/05/09 17:20	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		05/05/09 17:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		05/05/09 17:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		05/05/09 17:20	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/05/09 17:20	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		05/05/09 17:20	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		05/05/09 17:20	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/05/09 17:20	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/05/09 17:20	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		05/05/09 17:20	2037-26-5	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

QC Batch: MSV/4343 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 4016789020

METHOD BLANK: 153301 | Matrix: Water
Associated Lab Samples: 4016789020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	05/04/09 08:32	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	05/04/09 08:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	05/04/09 08:32	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	05/04/09 08:32	
1,1-Dichloroethane	ug/L	<0.75	1.0	05/04/09 08:32	
1,1-Dichloroethene	ug/L	<0.57	1.0	05/04/09 08:32	
1,1-Dichloropropene	ug/L	<0.75	1.0	05/04/09 08:32	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	05/04/09 08:32	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	05/04/09 08:32	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	05/04/09 08:32	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	05/04/09 08:32	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	05/04/09 08:32	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	05/04/09 08:32	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	05/04/09 08:32	
1,2-Dichloroethane	ug/L	<0.36	1.0	05/04/09 08:32	
1,2-Dichloropropane	ug/L	<0.49	1.0	05/04/09 08:32	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	05/04/09 08:32	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	05/04/09 08:32	
1,3-Dichloropropane	ug/L	<0.61	1.0	05/04/09 08:32	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	05/04/09 08:32	
2,2-Dichloropropane	ug/L	<0.62	1.0	05/04/09 08:32	
2-Chlorotoluene	ug/L	<0.85	1.0	05/04/09 08:32	
4-Chlorotoluene	ug/L	<0.74	1.0	05/04/09 08:32	
Benzene	ug/L	<0.41	1.0	05/04/09 08:32	
Bromobenzene	ug/L	<0.82	1.0	05/04/09 08:32	
Bromochloromethane	ug/L	<0.97	1.0	05/04/09 08:32	
Bromodichloromethane	ug/L	<0.56	1.0	05/04/09 08:32	
Bromoform	ug/L	<0.94	1.0	05/04/09 08:32	
Bromomethane	ug/L	<0.91	1.0	05/04/09 08:32	
Carbon tetrachloride	ug/L	<0.49	1.0	05/04/09 08:32	
Chlorobenzene	ug/L	<0.41	1.0	05/04/09 08:32	
Chloroethane	ug/L	<0.97	1.0	05/04/09 08:32	
Chloroform	ug/L	<1.3	5.0	05/04/09 08:32	
Chloromethane	ug/L	<0.24	1.0	05/04/09 08:32	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	05/04/09 08:32	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	05/04/09 08:32	
Dibromochloromethane	ug/L	<0.81	1.0	05/04/09 08:32	
Dibromomethane	ug/L	<0.60	1.0	05/04/09 08:32	
Dichlorodifluoromethane	ug/L	<0.99	1.0	05/04/09 08:32	
Diisopropyl ether	ug/L	<0.76	1.0	05/04/09 08:32	
Ethylbenzene	ug/L	<0.54	1.0	05/04/09 08:32	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	05/04/09 08:32	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	05/04/09 08:32	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

METHOD BLANK: 153301 Matrix: Water

Associated Lab Samples: 4016789020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	05/04/09 08:32	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	05/04/09 08:32	
Methylene Chloride	ug/L	<0.43	1.0	05/04/09 08:32	
n-Butylbenzene	ug/L	<0.93	1.0	05/04/09 08:32	
n-Propylbenzene	ug/L	<0.81	1.0	05/04/09 08:32	
Naphthalene	ug/L	<0.89	5.0	05/04/09 08:32	
o-Xylene	ug/L	<0.83	1.0	05/04/09 08:32	
p-Isopropyltoluene	ug/L	<0.67	1.0	05/04/09 08:32	
sec-Butylbenzene	ug/L	<0.89	5.0	05/04/09 08:32	
Styrene	ug/L	<0.86	1.0	05/04/09 08:32	
tert-Butylbenzene	ug/L	<0.97	1.0	05/04/09 08:32	
Tetrachloroethene	ug/L	<0.45	1.0	05/04/09 08:32	
Toluene	ug/L	<0.67	1.0	05/04/09 08:32	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	05/04/09 08:32	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	05/04/09 08:32	
Trichloroethene	ug/L	<0.48	1.0	05/04/09 08:32	
Trichlorofluoromethane	ug/L	<0.79	1.0	05/04/09 08:32	
Vinyl chloride	ug/L	<0.18	1.0	05/04/09 08:32	
4-Bromofluorobenzene (S)	%	97	70-130	05/04/09 08:32	
Dibromofluoromethane (S)	%	107	70-130	05/04/09 08:32	
Toluene-d8 (S)	%	100	70-130	05/04/09 08:32	

LABORATORY CONTROL SAMPLE & LCSD: 153302 153303

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	60.4	62.1	121	124	70-132	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	51.1	98	102	69-130	5	20	
1,1,2-Trichloroethane	ug/L	50	51.6	51.8	103	104	70-130	.4	20	
1,1-Dichloroethane	ug/L	50	55.1	58.9	110	118	70-130	7	20	
1,1-Dichloroethene	ug/L	50	55.0	56.3	110	113	70-130	2	20	
1,2-Dichloroethane	ug/L	50	55.8	58.3	112	117	70-134	4	20	
1,2-Dichloropropane	ug/L	50	53.0	54.5	106	109	70-130	3	20	
Benzene	ug/L	50	58.2	59.9	116	120	70-131	3	20	
Bromodichloromethane	ug/L	50	53.3	54.3	107	109	70-130	2	20	
Bromoform	ug/L	50	44.3	46.1	89	92	70-130	4	20	
Bromomethane	ug/L	50	52.1	54.8	104	110	23-200	5	20	
Carbon tetrachloride	ug/L	50	60.9	62.1	122	124	70-144	2	20	
Chlorobenzene	ug/L	50	51.7	51.5	103	103	70-130	.4	20	
Chloroethane	ug/L	50	54.1	54.4	108	109	70-136	.5	20	
Chloroform	ug/L	50	59.4	62.8	119	126	70-130	6	20	L0
Chloromethane	ug/L	50	33.8	34.1	68	68	54-148	.8	20	
cis-1,2-Dichloroethene	ug/L	50	56.4	58.1	113	116	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	50	52.9	54.1	106	108	70-130	2	20	
Dibromochloromethane	ug/L	50	48.2	50.5	96	101	70-130	5	20	
Ethylbenzene	ug/L	50	52.4	53.9	105	108	70-130	3	20	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

LABORATORY CONTROL SAMPLE & LCSD: 153302 153303

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	107	104	107	104	70-130	2	20	
Methylene Chloride	ug/L	50	52.9	56.3	106	113	66-130	6	20	
o-Xylene	ug/L	50	51.8	53.1	104	106	70-130	2	20	
Styrene	ug/L	50	46.2	48.3	92	97	70-130	4	20	
Tetrachloroethene	ug/L	50	48.0	50.2	96	100	75-130	4	20	
Toluene	ug/L	50	53.1	54.1	106	108	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	43.1	44.8	86	90	70-130	4	20	
trans-1,3-Dichloropropene	ug/L	50	51.4	52.7	103	105	70-130	2	20	
Trichloroethene	ug/L	50	54.4	55.9	109	112	70-130	3	20	
Vinyl chloride	ug/L	50	45.6	48.3	91	97	63-141	6	20	
4-Bromofluorobenzene (S)	%				94	95	70-130			
Dibromofluoromethane (S)	%				109	110	70-130			
Toluene-d8 (S)	%				98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153329 153330

Parameter	Units	4016712001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	59.8	60.8	120	122	70-137	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	50.1	51.8	100	104	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	52.5	54.2	105	108	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	44.4	53.2	89	106	70-130	18	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	52.4	56.0	105	112	70-130	7	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	54.7	57.2	109	114	69-134	4	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	52.3	53.0	105	106	70-130	1	20	
Benzene	ug/L	<0.41	50	50	57.9	59.4	116	119	69-131	3	20	
Bromodichloromethane	ug/L	<0.56	50	50	52.4	52.7	105	105	70-130	.5	20	
Bromoform	ug/L	<0.94	50	50	44.3	45.7	89	91	68-130	3	20	
Bromomethane	ug/L	<0.91	50	50	52.3	54.7	105	109	22-200	4	20	
Carbon tetrachloride	ug/L	<0.49	50	50	60.9	61.5	122	123	70-144	.9	20	
Chlorobenzene	ug/L	<0.41	50	50	51.6	53.6	103	107	70-130	4	20	
Chloroethane	ug/L	<0.97	50	50	51.7	51.9	103	104	66-136	.3	20	
Chloroform	ug/L	<1.3	50	50	58.2	59.4	116	119	70-130	2	20	
Chloromethane	ug/L	<0.24	50	50	33.6	33.2	67	66	54-148	1	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	51.3	57.6	103	115	70-130	12	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	53.3	55.4	107	111	70-130	4	20	
Dibromochloromethane	ug/L	<0.81	50	50	47.8	50.2	96	100	70-130	5	20	
Ethylbenzene	ug/L	<0.54	50	50	52.3	53.9	105	108	70-130	3	20	
m&p-Xylene	ug/L	<1.8	100	100	104	106	104	106	70-130	2	20	
Methylene Chloride	ug/L	<0.43	50	50	54.5	54.2	109	108	64-130	.5	20	
o-Xylene	ug/L	<0.83	50	50	50.8	54.3	102	109	70-130	7	20	
Styrene	ug/L	<0.86	50	50	46.8	46.3	94	93	43-130	1	20	
Tetrachloroethene	ug/L	<0.45	50	50	48.6	50.8	97	102	70-130	4	20	
Toluene	ug/L	<0.67	50	50	54.1	55.4	108	111	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	36.7	40.7	73	81	70-130	10	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	52.2	53.9	104	108	70-130	3	20	
Trichloroethene	ug/L	<0.48	50	50	54.0	54.0	108	108	70-130	.04	20	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153329 153330

Parameter	Units	4016712001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	<0.18	50	50	45.9	44.5	92	89	59-141	3	20	
4-Bromofluorobenzene (S)	%						99	97	70-130			
Dibromofluoromethane (S)	%						110	109	70-130			
Toluene-d8 (S)	%						102	102	70-130			

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

QC Batch: PMST/2432 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4016789010, 4016789011, 4016789012

SAMPLE DUPLICATE: 153370

Parameter	Units	4016789001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		21.9	21	10	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

QC Batch: MSV/4353 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 4016789017

METHOD BLANK: 153537 | Matrix: Water
Associated Lab Samples: 4016789017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	05/05/09 07:28	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	05/05/09 07:28	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	05/05/09 07:28	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	05/05/09 07:28	
1,1-Dichloroethane	ug/L	<0.75	1.0	05/05/09 07:28	
1,1-Dichloroethene	ug/L	<0.57	1.0	05/05/09 07:28	
1,1-Dichloropropene	ug/L	<0.75	1.0	05/05/09 07:28	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	05/05/09 07:28	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	05/05/09 07:28	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	05/05/09 07:28	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	05/05/09 07:28	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	05/05/09 07:28	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	05/05/09 07:28	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	05/05/09 07:28	
1,2-Dichloroethane	ug/L	<0.36	1.0	05/05/09 07:28	
1,2-Dichloropropane	ug/L	<0.49	1.0	05/05/09 07:28	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	05/05/09 07:28	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	05/05/09 07:28	
1,3-Dichloropropane	ug/L	<0.61	1.0	05/05/09 07:28	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	05/05/09 07:28	
2,2-Dichloropropane	ug/L	<0.62	1.0	05/05/09 07:28	
2-Chlorotoluene	ug/L	<0.85	1.0	05/05/09 07:28	
4-Chlorotoluene	ug/L	<0.74	1.0	05/05/09 07:28	
Benzene	ug/L	<0.41	1.0	05/05/09 07:28	
Bromobenzene	ug/L	<0.82	1.0	05/05/09 07:28	
Bromochloromethane	ug/L	<0.97	1.0	05/05/09 07:28	
Bromodichloromethane	ug/L	<0.56	1.0	05/05/09 07:28	
Bromoform	ug/L	<0.94	1.0	05/05/09 07:28	
Bromomethane	ug/L	<0.91	1.0	05/05/09 07:28	
Carbon tetrachloride	ug/L	<0.49	1.0	05/05/09 07:28	
Chlorobenzene	ug/L	<0.41	1.0	05/05/09 07:28	
Chloroethane	ug/L	<0.97	1.0	05/05/09 07:28	
Chloroform	ug/L	<1.3	5.0	05/05/09 07:28	
Chloromethane	ug/L	<0.24	1.0	05/05/09 07:28	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	05/05/09 07:28	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	05/05/09 07:28	
Dibromochloromethane	ug/L	<0.81	1.0	05/05/09 07:28	
Dibromomethane	ug/L	<0.60	1.0	05/05/09 07:28	
Dichlorodifluoromethane	ug/L	<0.99	1.0	05/05/09 07:28	
Diisopropyl ether	ug/L	<0.76	1.0	05/05/09 07:28	
Ethylbenzene	ug/L	<0.54	1.0	05/05/09 07:28	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	05/05/09 07:28	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	05/05/09 07:28	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

METHOD BLANK: 153537 Matrix: Water

Associated Lab Samples: 4016789017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	05/05/09 07:28	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	05/05/09 07:28	
Methylene Chloride	ug/L	<0.43	1.0	05/05/09 07:28	
n-Butylbenzene	ug/L	<0.93	1.0	05/05/09 07:28	
n-Propylbenzene	ug/L	<0.81	1.0	05/05/09 07:28	
Naphthalene	ug/L	<0.89	5.0	05/05/09 07:28	
o-Xylene	ug/L	<0.83	1.0	05/05/09 07:28	
p-Isopropyltoluene	ug/L	<0.67	1.0	05/05/09 07:28	
sec-Butylbenzene	ug/L	<0.89	5.0	05/05/09 07:28	
Styrene	ug/L	<0.86	1.0	05/05/09 07:28	
tert-Butylbenzene	ug/L	<0.97	1.0	05/05/09 07:28	
Tetrachloroethene	ug/L	<0.45	1.0	05/05/09 07:28	
Toluene	ug/L	<0.67	1.0	05/05/09 07:28	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	05/05/09 07:28	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	05/05/09 07:28	
Trichloroethene	ug/L	<0.48	1.0	05/05/09 07:28	
Trichlorofluoromethane	ug/L	<0.79	1.0	05/05/09 07:28	
Vinyl chloride	ug/L	<0.18	1.0	05/05/09 07:28	
4-Bromofluorobenzene (S)	%	96	70-130	05/05/09 07:28	
Dibromofluoromethane (S)	%	102	70-130	05/05/09 07:28	
Toluene-d8 (S)	%	103	70-130	05/05/09 07:28	

LABORATORY CONTROL SAMPLE & LCSD: 153538 153539

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	56.2	55.5	112	111	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	41.8	93	84	69-130	10	20	
1,1,2-Trichloroethane	ug/L	50	49.3	47.0	99	94	70-130	5	20	
1,1-Dichloroethane	ug/L	50	55.3	54.3	111	109	70-130	2	20	
1,1-Dichloroethene	ug/L	50	54.7	54.3	109	109	70-130	.8	20	
1,2-Dichloroethane	ug/L	50	59.5	57.7	119	115	70-134	3	20	
1,2-Dichloropropane	ug/L	50	52.4	52.8	105	106	70-130	.8	20	
Benzene	ug/L	50	52.1	51.7	104	103	70-131	.8	20	
Bromodichloromethane	ug/L	50	50.5	50.9	101	102	70-130	.6	20	
Bromoform	ug/L	50	51.7	47.9	103	96	70-130	8	20	
Bromomethane	ug/L	50	37.1	36.8	74	74	23-200	.7	20	
Carbon tetrachloride	ug/L	50	57.1	54.2	114	108	70-144	5	20	
Chlorobenzene	ug/L	50	51.1	50.6	102	101	70-130	.9	20	
Chloroethane	ug/L	50	53.8	55.1	108	110	70-136	2	20	
Chloroform	ug/L	50	52.4	52.2	105	104	70-130	.3	20	
Chloromethane	ug/L	50	50.7	50.3	101	101	54-148	.7	20	
cis-1,2-Dichloroethene	ug/L	50	51.2	51.3	102	103	70-130	.3	20	
cis-1,3-Dichloropropene	ug/L	50	51.1	50.5	102	101	70-130	1	20	
Dibromochloromethane	ug/L	50	46.4	46.3	93	93	70-130	.1	20	
Ethylbenzene	ug/L	50	51.2	50.9	102	102	70-130	.7	20	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

LABORATORY CONTROL SAMPLE & LCSD: 153538 153539

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	104	105	104	105	70-130	1	20	
Methylene Chloride	ug/L	50	49.9	48.9	100	98	66-130	2	20	
o-Xylene	ug/L	50	49.7	50.3	99	101	70-130	1	20	
Styrene	ug/L	50	47.0	47.2	94	94	70-130	.3	20	
Tetrachloroethene	ug/L	50	52.6	52.5	105	105	75-130	.06	20	
Toluene	ug/L	50	49.2	50.4	98	101	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	49.2	48.2	98	96	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	51.0	50.1	102	100	70-130	2	20	
Trichloroethene	ug/L	50	48.3	49.0	97	98	70-130	1	20	
Vinyl chloride	ug/L	50	50.8	51.3	102	103	63-141	.9	20	
4-Bromofluorobenzene (S)	%				98	98	70-130			
Dibromofluoromethane (S)	%				105	104	70-130			
Toluene-d8 (S)	%				102	101	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153715 153716

Parameter	Units	4016833005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	50.6	52.9	101	106	70-137	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	44.9	46.1	90	92	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	46.8	49.4	94	99	70-130	6	20	
1,1-Dichloroethane	ug/L	4.5	50	50	56.4	56.5	104	104	70-130	.3	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	49.8	47.2	100	94	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	53.8	55.2	108	110	69-134	3	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	49.4	51.1	99	102	70-130	3	20	
Benzene	ug/L	5.3	50	50	54.9	54.3	99	98	69-131	1	20	
Bromodichloromethane	ug/L	<0.56	50	50	46.9	47.1	94	94	70-130	.4	20	
Bromoform	ug/L	<0.94	50	50	47.4	51.0	95	102	68-130	7	20	
Bromomethane	ug/L	<0.91	50	50	27.8	31.0	56	62	22-200	11	20	
Carbon tetrachloride	ug/L	<0.49	50	50	50.3	51.3	101	103	70-144	2	20	
Chlorobenzene	ug/L	41.0	50	50	90.7	94.1	99	106	70-130	4	20	
Chloroethane	ug/L	4.1	50	50	54.6	55.2	101	102	66-136	1	20	
Chloroform	ug/L	<1.3	50	50	47.7	49.9	95	100	70-130	5	20	
Chloromethane	ug/L	<0.24	50	50	45.9	43.5	92	87	54-148	5	20	
cis-1,2-Dichloroethene	ug/L	14.7	50	50	61.5	62.2	93	95	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	46.4	47.2	93	94	70-130	2	20	
Dibromochloromethane	ug/L	<0.81	50	50	43.6	45.6	87	91	70-130	4	20	
Ethylbenzene	ug/L	1.1	50	50	50.4	52.5	98	103	70-130	4	20	
m&p-Xylene	ug/L	24.7	100	100	125	128	100	103	70-130	2	20	
Methylene Chloride	ug/L	<0.43	50	50	45.4	45.6	90	90	64-130	.5	20	
o-Xylene	ug/L	<0.83	50	50	47.1	49.5	93	98	70-130	5	20	
Styrene	ug/L	<0.86	50	50	32.4	34.0	65	68	43-130	5	20	
Tetrachloroethene	ug/L	<0.45	50	50	52.5	54.2	105	108	70-130	3	20	
Toluene	ug/L	<0.67	50	50	48.6	51.1	96	101	70-130	5	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	46.1	44.9	91	88	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	47.2	48.8	94	98	70-130	3	20	
Trichloroethene	ug/L	0.65J	50	50	46.4	46.4	92	92	70-130	.04	20	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153715 153716

Parameter	Units	4016833005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	15.4	50	50	61.6	61.5	92	92	59-141	.3	20	
4-Bromofluorobenzene (S)	%						99	97	70-130			
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						103	106	70-130			

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

QC Batch: OEXT/4170 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4016789017

METHOD BLANK: 153683 | Matrix: Water
Associated Lab Samples: 4016789017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.010	0.050	05/05/09 10:46	
2-Methylnaphthalene	ug/L	<0.011	0.050	05/05/09 10:46	
Acenaphthene	ug/L	<0.0083	0.050	05/05/09 10:46	
Acenaphthylene	ug/L	<0.0053	0.050	05/05/09 10:46	
Anthracene	ug/L	0.013J	0.050	05/05/09 10:46	
Benzo(a)anthracene	ug/L	0.052	0.050	05/05/09 10:46	
Benzo(a)pyrene	ug/L	0.029J	0.050	05/05/09 10:46	
Benzo(b)fluoranthene	ug/L	0.063	0.050	05/05/09 10:46	
Benzo(g,h,i)perylene	ug/L	0.050	0.050	05/05/09 10:46	
Benzo(k)fluoranthene	ug/L	0.058	0.050	05/05/09 10:46	
Chrysene	ug/L	0.049J	0.050	05/05/09 10:46	
Dibenz(a,h)anthracene	ug/L	0.041J	0.050	05/05/09 10:46	
Fluoranthene	ug/L	0.091	0.050	05/05/09 10:46	
Fluorene	ug/L	<0.0066	0.050	05/05/09 10:46	
Indeno(1,2,3-cd)pyrene	ug/L	0.051	0.050	05/05/09 10:46	
Naphthalene	ug/L	<0.017	0.050	05/05/09 10:46	
Phenanthrene	ug/L	0.015J	0.050	05/05/09 10:46	
Pyrene	ug/L	0.11	0.050	05/05/09 10:46	
2-Fluorobiphenyl (S)	%	88	25-130	05/05/09 10:46	
Terphenyl-d14 (S)	%	165	36-140	05/05/09 10:46	S0

LABORATORY CONTROL SAMPLE & LCSD: 153684 153685

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.12	0.21	59	104	33-130	56	46	R1
2-Methylnaphthalene	ug/L	.2	0.12	0.22	60	112	29-130	60	44	R1
Acenaphthene	ug/L	.2	0.12	0.15	62	73	43-130	18	46	
Acenaphthylene	ug/L	.2	0.11	0.13	57	66	33-130	15	47	
Anthracene	ug/L	.2	0.098	0.13	49	67	33-130	32	50	
Benzo(a)anthracene	ug/L	.2	0.15	0.16	77	78	41-130	1	20	
Benzo(a)pyrene	ug/L	.2	0.17	0.17	83	85	59-130	2	20	
Benzo(b)fluoranthene	ug/L	.2	0.18	0.19	88	93	53-130	5	20	
Benzo(g,h,i)perylene	ug/L	.2	0.19	0.19	93	96	55-130	4	20	
Benzo(k)fluoranthene	ug/L	.2	0.20	0.20	102	102	64-133	.05	20	
Chrysene	ug/L	.2	0.19	0.21	95	105	62-130	10	20	
Dibenz(a,h)anthracene	ug/L	.2	0.18	0.19	91	94	37-130	3	20	
Fluoranthene	ug/L	.2	0.12	0.15	62	77	48-130	22	37	
Fluorene	ug/L	.2	0.13	0.15	63	73	42-130	15	48	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	0.19	90	94	46-130	4	20	
Naphthalene	ug/L	.2	0.12	0.34	62	170	33-130	93	53	L0,R1
Phenanthrene	ug/L	.2	0.12	0.14	60	71	36-130	17	47	

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

LABORATORY CONTROL SAMPLE & LCSD: 153684 153685

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Pyrene	ug/L	.2	0.14	0.18	72	90	51-130	22	33	
2-Fluorobiphenyl (S)	%				71	84	25-130			
Terphenyl-d14 (S)	%				192	142	36-140			S0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

QC Batch: GCV/3337 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4016789010, 4016789011, 4016789012

METHOD BLANK: 153723 Matrix: Solid
Associated Lab Samples: 4016789010, 4016789011, 4016789012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	05/05/09 11:14	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	05/05/09 11:14	
Benzene	ug/kg	<25.0	60.0	05/05/09 11:14	
Ethylbenzene	ug/kg	<25.0	60.0	05/05/09 11:14	
Gasoline Range Organics	mg/kg	<2.5	2.5	05/05/09 11:14	
m&p-Xylene	ug/kg	<50.0	120	05/05/09 11:14	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	05/05/09 11:14	
o-Xylene	ug/kg	<25.0	60.0	05/05/09 11:14	
Toluene	ug/kg	<25.0	60.0	05/05/09 11:14	
Xylene (Total)	ug/kg	<75.0	180	05/05/09 11:14	
a,a,a-Trifluorotoluene (S)	%	106	80-120	05/05/09 11:14	

LABORATORY CONTROL SAMPLE & LCSD: 153724 153725

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1060	1100	106	110	80-120	4	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1060	1100	106	110	80-120	4	20	
Benzene	ug/kg	1000	1010	1040	101	104	80-120	3	20	
Ethylbenzene	ug/kg	1000	1030	1060	103	106	80-120	3	20	
Gasoline Range Organics	mg/kg	10	8.9	9.1	89	91	80-120	2	20	
m&p-Xylene	ug/kg	2000	2060	2120	103	106	80-120	3	20	
Methyl-tert-butyl ether	ug/kg	1000	936	956	94	96	80-120	2	20	
o-Xylene	ug/kg	1000	1030	1060	103	106	80-120	3	20	
Toluene	ug/kg	1000	1030	1050	103	105	80-120	3	20	
Xylene (Total)	ug/kg	3000	3090	3180	103	106	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				105	105	80-120			

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

QUALITY CONTROL DATA

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

QC Batch: OEXT/4180 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 4016789010, 4016789011, 4016789012

METHOD BLANK: 154056 Matrix: Solid
Associated Lab Samples: 4016789010, 4016789011, 4016789012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	0.89J	2.0	05/07/09 08:46	

LABORATORY CONTROL SAMPLE & LCSD: 154057 154058

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	20	14.5	17.3	73	87	70-120	18	20	

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QUALIFIERS

Project: CTH-L MUSKEGO JANESVILLE RD.
Pace Project No.: 4016789

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.

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.

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSSV/1810

[1] QC had multiple issues including Blank contamination, RPD failures on the LCS/LCSD and high surrogate failures on the QC and some samples. There was no sample volume available for reextraction. A second QC set was extracted immediately after the samples. On the second QC set the blank was clean to the reporting limit and all compound and surrogates recoveries and RPDs were in control.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.
Z2	Analyte present in the associated method blank above the detection limit.

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

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CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	PSI
Branch/Location:	Waukesha
Project Contact:	Matt Dahlem
Phone:	262-970-9022
Project Number:	CTH-L Muskego
Project Name:	Janesville Rd. Relocation
Project State:	WI
Sampled By (Print):	Matt Dahlem
Sampled By (Sign):	Matt [signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Matt Dahlem
Mail To Company:	PS
Mail To Address:	
Invoice To Contact:	Matt Dahlem
Invoice To Company:	PSI
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, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	DRO	GRO	VOC	PAH	Lead	% solids	PVOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)					N	N	N	N	N	N	N			
PRESERVATION (CODE)*					A	F	F	A	A	A	F			
001	B-2 (3-5)	4/29/09	935	S	X	X	X	X	X	X		1-4oz poly A	2-4oz A	2-40ml F
002	B-1 (3-5)		950		X	X	X	X	X	X				
003	B-3 (3-5)		1010		X	X	X	X	X	X				
004	B-20 (3-5)		1030				X			X				1-40ml F
005	B-21 (3-5)		1045				X			X				
006	B-22 (7.5-9)		1100				X			X				
007	B-23 (3-5)		1130		X	X				X	X		1-4oz A	2-40ml F
008	B-24 (3-5)		1145		X	X				X	X			
009	B-25 (3-5)		1200		X	X				X	X			
010	B-28 (3-5)		1220		X	X				X	X			
011	B-29 (3-5)		1240		X	X				X	X			
012	B-30 (5-7.5)		1300		X	X				X	X			
013	B-27 (0.5-2.5)		1315		X	X				X	X			

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Matt [signature]	4/30/09 1045	D. Fonnel	4/30/9 1045
D. Fonnel	4/30/9 1700	Walt Co	
Walt Co	5/1/09 900	[signature]	5/1/09 900

PACE Project No. 40167789
Receipt Temp = 2.01 °C
Sample Receipt pH OK / Adjusted N/A
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

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CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name:	PSI
Branch/Location:	Waukesha
Project Contact:	Matt Dahlem
Phone:	262-970-9022
Project Number:	CTH-L Muskego
Project Name:	Janesville Rd. Relocation
Project State:	WI
Sampled By (Print):	Matt Dahlem
Sampled By (Sign):	Matt [signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Matt Dahlem
Mail To Company:	PSI
Mail To Address:	
Invoice To Contact:	Matt Dahlem
Invoice To Company:	PSI
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, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	DRO	GRO	VOC	% Solid	VOC	PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO) Y/N					N	N	N	N	N	N			
PRESERVATION (CODE)* Pick Letter					A	F	F	A	B	A			
014	B-26 (2.5-5)	4/29/09	1330	S	X	X	X	X			1-4oz poly A	1-4oz A 2-40ml F	
015	TW-23	↓	1415	GW					X		3-40ml B		
016	TW-22	↓	1430	↓					X		↓		
017	TW-28	↓	1445	↓					X	X	↓	1-1L AG A	
018	TW-27	↓	1520	↓					X	X	↓	↓	
019	Equipment Blank	↓	—	—					X		↓		
020	Trip Blank	—	—	—					X		4-40ml B		
↓	Trip Blank	—	—	—					X				
	Temperature Blank	—	—	—									
	Temperature Blank	—	—	—									

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Matt [signature]	4/30/09 1045	D. Fennimore	4/30/9 1045
D. Fennimore	4/30/9 1700	Walter	
Walter	5/1/09 900	[signature]	5/1/09 900

PACE Project No. 40167789
Receipt Temp = R01 °C
Sample Receipt pH OK / Adjusted N/A
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: PSI Project # 4016789

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other Walk-In

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other _____

Thermometer Used N/A Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.01 Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 5/1/09 AE

Temp should be above freezing to 6°C

Comments:

				Comments
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9. ZHE volume rec'd for DRO's. They will need to be subsampled
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S/W				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☒Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CW **Date:** 5/4/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)