NR 716 SITE INVESTIGATION REPORT: TASK 1

FOR THE:

FIRESTONE PROPERTY
S73 W16437 JANESVILLE ROAD
MUSKEGO, WISCONSIN 53150
WDNR BRRTS NO. 03-68-554227
WDNR FID NO. 268181540

PREPARED FOR:

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
SOUTHEAST REGION REMEDIATION AND REDEVELOPMENT PROGRAM
DIVISION OF AIR AND WASTE
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PSI PROJECT NO. 0054238

JANUARY 31, 2011

psi Information To Build On
Engineering • Consulting • Testing

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January 31, 2011

Leslie Williams, RHSP, CHMM
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Re: NR 716 Site Investigation Report: Task 1
Firestone Property
S73 W16437 Janesville Road
Muskego, WI 53150
WDNR BRRTS No.: 03-68-554227
WDNR FID No.: 268181540
PSI Project No.: 0054263

Dear Ms. Williams:

Per your authorization of Professional Service Industries, Inc. (PSI) Proposal No. PO-054-15875, dated March 12, 2010, PSI has performed Task 1 of a NR 716 Site Investigation at 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) 347-0898.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Matthew J. Dahlem, P.G.
Professional Geologist

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Enclosures

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1.0 EXECUTIVE SUMMARY

Professional Service Industries, Inc, (PSI) completed a Site Investigation at S73 W16437 Janesville Road in Muskego, Wisconsin. Following is a summary of the project, the findings and our recommendations.

PSI completed a NR 716 Site Investigative Work Plan for the Firestone Property on March 9, 2010, a copy of which was submitted to the Wisconsin Department of Natural Resources (WDNR). As indicated in that plan, PSI recommended completing the work in two phases, referenced as Task 1 and Task 2. The purpose of this phase of the Site Investigation was to complete Task 1, which was to define the extent of soil contamination on the property and to provide groundwater data to support the placement of permanent wells, if necessary.

On March 26, 2010, PSI procured Acuren to perform a ground penetrating radar (GPR) investigation of the site property surrounding the site building. The GPR survey was performed to determine and mark anomalies consistent with orphan underground storage tanks (USTs) (i.e., one UST was reportedly on-site and filled with inert material and others could have been present throughout the property). The GPR survey identified no anomalies that would indicate the presence of a UST.

On March 30, 2010, On-Site Environmental Services, Inc. advanced twelve soil probe borings on the subject property, under the direction of PSI. One soil sample was collected from eleven of the twelve soil probe borings for laboratory analysis for one or more of the following constituents: Diesel Range Organics (DRO), Gasoline Range Organics (GRO), Petroleum Volatile Organic Compounds (PVOCs), Polynuclear Aromatic Hydrocarbons (PAHs) and/or Polychlorinated Biphenyls (PCBs). Ethylbenzene and naphthalene were detected in soil sample SP-2 at concentrations in excess of the WDNR NR 746 Table 1 suggested Residual Contaminant Level (RCL) and the WDNR suggested PAH generic soil cleanup level based on a protection of groundwater risk, respectively. Additionally, DRO, GRO, ethylbenzene, toluene and total xylenes were detected in soil sample SP-2 exceeding their respective WDNR NR 720 RCLs based on a non-industrial direct contact risk. Benzo(a)pyrene was detected in soil sample SP-3 at a concentration exceeding the WDNR suggested PAH generic soil cleanup level based on a non-industrial direct contact risk; however, this concentration was detected between the laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ). DRO was detected in soil sample SP-8 at a concentration in excess of the WDNR NR 720 RCL based on a non-industrial direct contact risk.

Five of the twelve soil probe borings were converted to temporary groundwater monitoring wells to facilitate groundwater sampling and analysis for VOCs and PAHs. Benzene and 1,2-Dichloroethane (1,2-DCA) were detected at concentrations in excess of their respective NR 140 Enforcement Standards (ESs) in groundwater sample TW-2 while ethylbenzene, naphthalene, toluene, and trimethylbenzenes were detected at concentrations in excess of their respective NR 140 Preventative Action Limits (PALs) in groundwater sample TW-2. Additionally, tetrachloroethene (PCE) and chrysene in TW-5, chrysene in TW-11, and benzo(a)pyrene, benzo(b)fluoranthene, and chrysene in TW-

11 were detected at concentrations in excess of their respective NR 140 PALs; however, these concentrations were detected between the laboratory LOD and LOQ.

Based on the past data and work performed, it is PSI's opinion that further investigation of the soil petroleum contamination identified at the site is not warranted at this time. The extent of soil contamination is reasonably defined on the property and asphalt or the building cover areas of soil contamination above NR 720/NR 746 RCLs and Suggested PAH Generic Soil Cleanup Levels. However, VOCs and PAHs were found in the groundwater at the Firestone Property at levels exceeding NR 140 ESs and PALs. As such, long term groundwater monitoring is recommended to determine if natural attenuation is a viable option for seeking case closure. This will require installation of permanent groundwater monitoring wells in accordance with Task 2 of PSI's NR 716 Site Investigation Work Plan dated March 9, 2010.

To aid in site closure, PSI also recommends that "hot spot" source removal be completed during building demolition and/or during the Janesville Road relocation project. At that time, the contaminated soils will be accessible and exposed. A Soil Management Plan should be prepared and followed for all earthwork encountering known or perceived areas of contamination.

This summary is not to be used alone. The report must be read in its entirety.

2.0 GENERAL INFORMATION

Authorization to perform this assessment, in accordance with PSI Proposal No. PO-054-15875, was given on March 16, 2010, by Ms. Leslie Williams, RHSP, CHMM, Hazardous Materials Coordinator of Waukesha County.

2.1 SITE INFORMATION

PSI has prepared this NR 716 Site Investigation Report: Task 1 for the property referred to herein as the Firestone Property. Site information is included under this section.

Project Title: Firestone Property NR 716 Site Investigation Report: Task 1

Purpose: The purpose of Task 1 of this site investigation was to define the nature, degree, and extent of soil contamination and to provide groundwater data to support the placement of permanent wells, if necessary.

Property Owner: Waukesha County
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Site Name: Firestone Property

Site Address: S73 W16437 Janesville Road
Muskego, WI 54150

The subject property is geographically located in the Southeast ¼ of the Northwest 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.

WDNR BRRTS No.: 03-68-554227

WDNR FID No.: 268181540

Geographic Coordinates (WTM91[x,y]): 673470, 272780*
*Used WDNR Remediation and Redevelopment (RR) Map web site to get Wisconsin Transverse Mercator (WTM) '91 coordinates

3.0 BACKGROUND INFORMATION

In 2007, PSI was retained by Waukesha County to complete a Phase I Environmental Site Assessment (ESA) for the Janesville Road (CTH L) relocation project. That Phase I ESA identified properties located along the Janesville Road right-of-way (ROW) that posed a real or perceived risk for petroleum contamination within the ROW. The subject property was one of the properties identified as a recognized environmental condition (REC) with respect to the ROW.

The Firestone Property has historically been utilized as an auto body shop. Waukesha County acquired the property around January 2010 and the subject property building will be razed as part of the CTH L relocation efforts.

According to the Phase I ESA, the Firestone Property was identified as an underground storage tank (UST) site with a 500-gallon waste oil tank that was reportedly closed and filled with inert material. Additionally, the Firestone Property was listed as a Conditionally Exempt Small Quantity Generator (CESQG). Since this property formerly operated as an auto body shop and formerly owned a 500-gallon waste oil tank, PSI recommended that a Phase II ESA be completed in the ROW located adjacent to the auto body shop.

On April 29, 2009, three soil probe borings were advanced within the ROW located adjacent to the Firestone Property under the direction of PSI as part of a Phase II ESA. 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 WDNR suggested residual contaminant levels (RCLs) based on a non-industrial direct contact risk. A summary of the soil analytical data from the Phase II ESA is presented in Table 1. A copy of the laboratory analytical report from the Phase II ESA is included in Appendix A.

Two of the three soil probe borings were converted to temporary groundwater monitoring wells to facilitate groundwater sampling and analysis during the Phase II ESA. Polynuclear aromatic hydrocarbons (PAHs) were present in one groundwater sample at concentrations above NR 140 Enforcement Standards (ESs). A summary of the groundwater analytical data from the Phase II ESA is presented in Table 2. A copy of the laboratory analytical report from the Phase II ESA is included in Appendix A.

On August 21, 2009, PSI, on behalf of Waukesha County, notified the WDNR that soil and groundwater contamination had been discovered within the Janesville Road ROW, which most likely originated from the Firestone Property. On October 5, 2009, WDNR issued a Responsible Party (RP) letter stating that Muskego Firestone is responsible for investigating and restoring the environment at the subject property described under Section 292.11, Wisconsin Statutes. This site was placed on the WDNR Bureau of Remediation and Redevelopment Tracking System (BRRTS) website as a leaking UST (LUST) site for the petroleum soil and groundwater contamination at the Firestone Property and in the Janesville Road ROW. Since that time, Waukesha County has

purchased the Firestone Property and is taking responsibility for the contamination.

Review of City of Muskego building inspection records and city assessor records for the property provided no further information regarding spills or tanks on the property. A 1985 document from the plan Commission indicates that the installation of a fuel oil UST was being considered on the property but no other information was found regarding the UST. However, on March 5, 2010, PSI was informed by Leslie Williams, Hazardous Materials Coordinator for Waukesha County Department of Parks and Land Use, that a Phase I ESA was conducted for an adjacent parcel (S73 W16485 Janesville Road) in 1996 by Real Estate Technical Advisors, Inc. The Phase I ESA indicated that a UST existed near the southwestern portion of the Firestone Property; however, no documentation exists which indicates that the tank(s) had been removed.

On March 9, 2010, PSI, on behalf of Waukesha County, submitted a Site Investigation Work Plan for the Firestone Property to the WDNR describing the intended scope in general accordance with NR 716.

4.0 METHODS OF INVESTIGATION

Field activities performed as part of Task 1 of this Site Investigation are described in the following sections.

3.1 GROUND PENETRATING RADAR SURVEY

On March 26, 2010, PSI procured Acuren to perform a ground penetrating radar (GPR) investigation of the site property surrounding the site building. The GPR survey was performed to determine and mark anomalies consistent with orphan USTs (i.e., one UST was reportedly on-site and filled with inert material and others could have been present throughout the property). The GPR survey identified no anomalies that would indicate the presence of a UST. The GPR Examination Report is attached in Appendix B.

3.2 SUBSURFACE EXPLORATION

Soil probe boring installation activities were conducted on March 30, 2010. Prior to commencement of the soil probe boring activities, PSI contacted Diggers Hotline, a utility locating service, to locate all public underground utilities on and adjacent to the subject property (Diggers Hotline Ticket # 20101306223). Additionally, PSI contacted GLS Utility, LLC to locate all private underground utilities on the subject property.

Twelve soil probe borings, SP-1 through SP-12, 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 in part based on information obtained from PSI's June 9, 2009 Phase II ESA report of the Janesville Road Right-Of-Way Located Adjacent to Firestone Property. The soil probe boring locations are depicted on Figure 2. Mr. Matthew Dahlem, P.G., a Registered Professional Geologist for PSI, directed the soil probe boring and sampling activities. Each of the soil probe borings were completed to termination depths of 15 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 C. Investigation derived wastes generated during soil probe boring activities were containerized in a 55-gallon drum. This drum was transported offsite by Advanced Waste Services, Inc. on September 23, 2010. The waste manifest information is included in Appendix C.

3.3 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 1,009 ppm in each of the macro core samples from soil probe borings SP-1 through SP-12. The field screening results are included on the soil boring logs included in Appendix D.

3.4 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. Eleven 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. Upon completion of the soil sampling, each of the boreholes was backfilled with chipped bentonite. Soil probes installed through asphalt were capped with cold asphalt. The WDNR borehole abandonment forms are included in Appendix E.

3.5 Groundwater Sampling

After the soil probe borings were completed, temporary 1-inch diameter monitoring wells were inserted into five of the twelve boreholes (SP-2, SP-5, SP-7, SP-11 and SP-12) to facilitate groundwater sample collection. Soil probe borings SP-2, SP-5, SP-7, SP-11 and SP-12 were converted to temporary groundwater monitoring wells TW-2, TW-5, TW-7, TW-11 and TW-12, respectively. The temporary wells were constructed by inserting a 1-inch diameter polyvinyl chloride (PVC) pipe with a 10-foot slotted screen at the bottom into the borehole after the boring was completed. Upon completion of the groundwater sampling, the well screens were removed from the borings and each of the boreholes was backfilled with chipped bentonite. Soil probes installed through asphalt were capped with cold asphalt. The WDNR borehole abandonment forms are included in Appendix E.

3.6 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.

The soil samples selected for chemical analysis were collected from eleven of the twelve soil probe borings that showed the most evidence of subsurface impacts based on olfactory observations and field screening results. One soil probe boring location (SP-9) was only field screened to investigate the GPR anomaly and no soil sample from this location was selected for laboratory analysis. One soil sample was collected from the remaining eleven soil probes for laboratory analysis for one or more of the following constituents: Diesel Range Organics (DRO), Gasoline Range Organics (GRO), Petroleum Volatile Organic Compounds (PVOCs), Polynuclear Aromatic Hydrocarbons (PAHs) and/or Polychlorinated Biphenyls (PCBs).

One groundwater sample was collected from temporary groundwater monitoring wells TW-5, TW-11, and TW-12 and submitted for laboratory analysis of VOCs and PAHs. One groundwater sample was collected from temporary groundwater monitoring well TW-2 and submitted for laboratory analysis of VOCs; however, groundwater monitoring well TW-2 did not produce a sufficient volume of water for PAH analysis. Groundwater monitoring well TW-7 was dry.

3.7 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.

3.8 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 at S73 W16437 Janesville Road in Muskego, Wisconsin ranges in elevation from 819 to 820 feet above mean sea level. Overall, gradient of the area appears to be south.

The native surficial Pleistocene stratigraphic deposit at the subject property is the Oak Creek Formation, which is commonly silty clay or silty clay loam till, but also includes some silt and sand. Till of the Oak Creek Formation is readily distinguished from all other tills in region by its color, by its high silt-clay content, by its abundant dolomite clasts, and by the presence of dark gray to black shale chips. The color of the till at the subject property is brown (10YR 4/3 to 5/3) since it has been oxidized. Till of the Oak Creek Formation was deposited by ice of the Lake Michigan Lobe as it moved west-southwestward out of the Lake Michigan basin and crossed a large area of southeastern Wisconsin. The Oak Creek Formation and underlying unconsolidated glacial deposits in the area of the subject property are locally 100-200 feet thick according to the Depth to Bedrock Map in Wisconsin (1973). This wide range of depth to bedrock is in large part caused by the many end moraines deposited during the last glacial period and the erosion of river valleys since then. These unconsolidated glacial deposits directly overly Silurian Dolomite, which is the uppermost bedrock unit in the area.

Glaciation has largely determined the physiography and topography as well as the soils of the region. 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 (issued July 1971), the soil in the area where the subject property is located is classified as the Morley silt loam. These soils consist of well-drained and moderately well-drained silty soils over calcareous silty clay loam glacial till formed on ground moraines. These soils are classified as low permeability units and are estimated to have a vertical hydraulic conductivity of less than 0.0001 centimeters per second (cm/s), or approximately 0.3 feet per day (ft/day). The native soil underlying the subject property has good attenuation potential and thus, may be considered less susceptible to contamination from land use activities.

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 March 30, 2010 during the Site Investigation. The soil stratigraphy at the subject site generally included a ground surface of asphalt and gravel over fill material consisting of black, brown, gray, rust and/or olive sandy/silty clay, sandy gravel, and clayey sand. Beneath the fill material, the site soils consisted of

native brown silty clay with gray and rust mottling with intermittent seams of brown medium-coarse grained sand and/or brown sandy clay. The fill material was encountered in each of the soil probe borings to depths of approximately 2.5 to 12.5 feet bgs. Bedrock was not encountered in any of the borings to the maximum depth explored (15 feet bgs). The subsurface conditions encountered during the Site Investigation are documented on the boring logs contained in Appendix D.

4.2 HYDROGEOLOGY AND HYDROLOGY

Surface drainage is poorly developed and very complex within the region because of the effects of the relatively recent glaciation. The land surface is complex as a result of being covered by glacial deposits, containing thousands of closed depressions that range in size from potholes to large areas. Additionally, recent anthropogenic activities have compounded the complexity of the surface drainage in the region. According to the SEWRPC Technical Report No. 37 (2002), the surface water drainage at the subject property lies within the Fox River Watershed. The Fox River watershed drains to the south and southwest towards its confluences with the Illinois River, a tributary of the Mississippi River.

The sand and gravel aquifer consists primarily of layers or lenses within alluvial and glacial deposits and is extremely variable in thickness. It is not as continuous as the bedrock aquifers. The sand and gravel aquifer occurs as broad outwash deposits, isolated lenses within less permeable deposits, stream terraces, valley fill directly overlying bedrock, and other materials deposited by water or glacier. 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 100-200 feet thick and unconformably overlie the Silurian Niagara Dolomite.

The Silurian dolomite aquifer is the uppermost bedrock aquifer in most of the region and is the primary source of most domestic water supplies and many high-capacity wells in the area underlain by the Maquoketa Formation. The Silurian dolomite aquifer extends over approximately ¾ of Waukesha County, 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.

The Maquoketa Formation underlies the Silurian dolomite aquifer and is exposed at the bedrock surface in various areas of Waukesha County. Rock in this unit, which is primarily shale with some dolomite, forms a continuous, low-permeability layer that restricts vertical groundwater flow between the Silurian dolomite aquifer and the underlying sandstone aquifer. Weathered zones near the top of the Maquoketa

Formation may yield small amounts of water, but few wells are open exclusively to it.

The upper and lower sandstone aquifer includes all of the Cambrian and Ordovician rocks between the top of the Precambrian basement and the bottom of the Maquoketa Formation. There is a semi-confining unit that locally restricts groundwater flow between the upper and lower sandstone aquifers; however, this unit is not continuous throughout the region. Because the water circulates between the various stratigraphic units of the sandstone aquifers and the semi-confining unit, the aquifer acts as a single hydraulic unit. The overlying semi-permeable Maquoketa Formation acts as a semi-confining bed and maintains artesian pressure in the sandstone aquifers.

Precambrian crystalline rock, mostly granite, underlies the Cambrian sedimentary sequence. Its characteristics are poorly known because only a very few wells reach the Precambrian surface in Southeastern Wisconsin. The Precambrian basement is not a source of water supply in the region. It is assumed to have a very low permeability and forms the lower boundary of the important sandstone aquifer.

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

- Occurs at approximately 4 to >15-feet below ground surface;
- Exists under unconfined conditions;
- Regionally flows east towards Lake Michigan; and,
- Locally flows in a southerly 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 Table 1 RCL (µg/kg)	NR 746 Table 2 RCL (µg/kg)
Benzene	5.5	8,500	1,100
1,2-Dichloroethane	4.9	600	None Established
Ethylbenzene	2,900	4,600	None Established

Toluene	1,500	38,000	None Established
Total Xylenes	4,100	42,000	None Established
1,2,4-Trimethylbenzene	None Established	83,000	None Established
13,5-Trimethylbenzene	None Established	11,000	None Established
Naphthalene	None Established	2,700	None Established

Additionally, the WDNR has established suggested generic soil RCLs for specific PAHs, which were developed consistent with the methodology used in NR 720. The cleanup levels are differentiated for industrial and non-industrial sites. The suggested RCLs for PAHs at a non-industrial site are summarized in Table 3.

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:

- PVOC constituent ethylbenzene was detected in soil sample SP-2 (7.5' – 10') at a concentration in excess of the WDNR NR 746 Table 1 suggested RCL based on a protection of groundwater risk. PAH constituent naphthalene was detected in soil sample SP-2 (7.5' – 10') at a concentration exceeding the WDNR suggested PAH generic soil cleanup level based on a protection of groundwater risk. Additionally, DRO, GRO and PVOC constituents ethylbenzene, toluene and total xylenes were detected in soil sample SP-2 (7.5' – 10') exceeding their respective WDNR NR 720 RCLs based on a non-industrial direct contact risk.

- PAH constituent benzo(a)pyrene was detected in soil sample SP-3 (3' – 5') at a concentration exceeding the WDNR suggested PAH generic soil cleanup level based on a non-industrial direct contact risk; however, this concentration was detected between the laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ).

- DRO was detected in soil sample SP-8 (5' – 7.5') at a concentration in excess of the WDNR NR 720 RCL based on a non-industrial direct contact risk.

- No other DRO, GRO, PVOCs or PAHs were identified at levels of concern in the remaining soil samples.

- PCBs were not detected above regulatory limits in any of the soil samples analyzed for PCBs.

A summary of the soil analytical data is presented in Table 3. A soil isoconcentration map is depicted in Figure 3 and a geologic cross-sections are included as Figures 4 through 6. A copy of the laboratory analytical report is included in Appendix F.

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-2, TW-5, TW-7, TW-11 and TW-12 were installed in soil probe borings SP-2, SP-5, SP-7, SP-11 and SP-12, respectively, on March 30, 2010. Temporary monitoring well TW-2 was sampled approximately 7½ hours after installation. Temporary monitoring well TW-5 was sampled approximately 4½ hours after installation. Temporary monitoring well TW-11 was sampled approximately 1 hour after installation. Temporary monitoring well TW-12 was sampled approximately 45 minutes after installation. Temporary monitoring well TW-7 was not sampled because it was dry.

One groundwater sample was collected from temporary groundwater monitoring wells TW-5, TW-11, and TW-12 and submitted for laboratory analysis of VOCs and PAHs. One groundwater sample was collected from temporary groundwater monitoring well TW-2 and submitted for laboratory analysis of VOCs; however, groundwater monitoring well TW-2 did not produce a sufficient volume of water for PAH analysis.

The groundwater sample analytical results indicate the following:

- VOC constituents' benzene and 1,2-Dichloroethane (1,2-DCA) were detected at concentrations in excess of their respective NR 140 ESs in groundwater sample TW-2; additionally, VOC constituents' ethylbenzene, naphthalene, toluene, and trimethylbenzenes were detected at concentrations in excess of their respective NR 140 PALs in groundwater sample TW-2.

- VOC constituent tetrachloroethene (PCE) and PAH constituent chrysene were detected at concentrations in excess of their respective NR 140 PALs in groundwater sample TW-5; however, these concentrations were detected between the laboratory LOD and LOQ.

- PAH constituent chrysene was detected at a concentration in excess of the NR 140 PAL in groundwater sample TW-11; however, this concentration was detected between the laboratory LOD and LOQ.

- PAH constituents' benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected at concentrations in excess of their respective NR 140 PALs in groundwater sample TW-12; however, these concentrations were detected between the laboratory LOD and LOQ.

A summary of the groundwater analytical data is presented in Table 4. A groundwater isoconcentration map is depicted in Figure 7. A copy of the laboratory analytical report is included in Appendix F.

5.0 CONCLUSIONS

PSI has performed a Site Investigation at the subject site in substantive compliance with PSI Proposal No. PO-054-15875. Based on the results of this assessment, the following conclusions have been developed for this property.

5.1 CONCLUSIONS

- During PSI's investigation, the soil stratigraphy at the subject site generally included a ground surface of asphalt and gravel over fill material consisting of black, brown, gray, rust and/or olive sandy/silty clay, sandy gravel, and clayey sand. Beneath the fill material, the site soils consisted of native brown silty clay with gray and rust mottling with intermittent seams of brown medium-coarse grained sand and/or brown sandy clay. The fill material was encountered in each of the soil probe borings to depths of approximately 2.5 to 12.5 feet bgs. Bedrock was not encountered in any of the borings to the maximum depth explored (15 feet bgs).

- PSI assessed soil samples collected from eleven soil probes (SP-1 through SP-8 and SP-10 through SP-12) on March 30, 2010. Ethylbenzene and naphthalene were detected in soil sample SP-2 at concentrations in excess of the WDNR NR 746 Table 1 suggested RCL and the WDNR suggested PAH generic soil cleanup level based on a protection of groundwater risk, respectively. Additionally, DRO, GRO and PVOC constituents' ethylbenzene, toluene and total xylenes were detected in soil sample SP-2 exceeding their respective WDNR NR 720 RCLs based on a non-industrial direct contact risk. Benzo(a)pyrene was detected in soil sample SP-3 at a concentration exceeding the WDNR suggested PAH generic soil cleanup level based on a non-industrial direct contact risk; however, this concentration was detected between the laboratory LOD and LOQ. DRO was detected in soil sample SP-8 at a concentration in excess of the WDNR NR 720 RCL based on a non-industrial direct contact risk.

- PSI assessed groundwater samples collected from four soil probes (SP-2/TW-2, SP-5/TW-5, SP-11/TW-11 and SP-12/TW-12) on March 30, 2010. Benzene and 1,2-DCA were detected at concentrations in excess of their respective NR 140 ESs in groundwater sample TW-2 while ethylbenzene, naphthalene, toluene, and trimethylbenzenes were detected at concentrations in excess of their respective NR 140 PALs in groundwater sample TW-2. Additionally, PCE and chrysene in TW-5, chrysene in TW-11, and benzo(a)pyrene, benzo(b)fluoranthene, and chrysene in TW-11 were detected at concentrations in excess of their respective NR 140 PALs; however, these concentrations were detected between the laboratory LOD and LOQ.

- The highest levels of contamination appear to be located between/beneath the subject building and Janesville Road. The source of the contamination has not been identified.

6.0 RECOMMENDATIONS

PSI has performed Task 1 of a NR 716 Site Investigation at the subject property in substantive compliance with PSI Proposal No. PO-054-15875. Based on the results of this assessment, the following recommendations have been developed for this property.

6.1 SOIL

Based on the past data and work performed, it is PSI's opinion that further investigation of the soil petroleum contamination identified at the site is not warranted at this time. The extent of soil contamination is reasonably defined on the property and asphalt or the building cover areas of soil contamination above NR 720/NR 746 RCLs and Suggested PAH Generic Soil Cleanup Levels. However, VOCs and PAHs were found in the groundwater at the Firestone Property at levels exceeding NR 140 ESs and PALs. As such, long term groundwater monitoring is recommended to determine if natural attenuation is a viable option for seeking case closure. This will require installation of permanent groundwater monitoring wells in accordance with Task 2 of PSI's NR 716 Site Investigation Work Plan dated March 9, 2010.

The paved surfaces and the building foundation over the contaminated soil currently serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. These paved surfaces and building foundation also act as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, WAC.

Soil probe boring SP-2 appears to be at or near the source of the site contamination. Based on the future use of the property, PSI recommends that active remediation be performed during the building demolition and/or the Janesville Road relocation project. Active remediation would include the removal of the contaminated soil near SP-2 (i.e., "hot spot" source removal). During excavation activities, PSI would field screen for volatile organic vapors with a PID and collect confirmatory samples from the excavation to verify that most of the petroleum contaminated soil had been removed.

Based on the future use of the property, 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. Petroleum contaminated soil and groundwater generated from LUST sites or spills are usually classified as "special waste", the disposal and handling of which is regulated for the protection of human health and the environment.

6.2 GROUNDWATER

During PSI's Site Investigation, VOCs and PAHs were found in the groundwater at the Firestone Property at levels exceeding NR 140 ESs and PALs. As such, long term groundwater monitoring is recommended to determine if natural attenuation is a viable

option for seeking case closure. This will require installation of permanent groundwater monitoring wells in accordance with Task 2 of PSI's NR 716 Site Investigation Work Plan dated March 9, 2010.

Temporary monitoring well TW-2 appears to be at or near the source of the site contamination. Therefore, a total of five NR 141 compliant groundwater monitoring wells will be installed (one near the source, two down gradient, and two side gradient of the source) at the subject property. The wells will be sampled on a quarterly basis for 12 months to determine the contaminant trend over time (i.e., decreasing, stable, or increasing). Depending on the schedule of razing the subject property building and/or the Janesville Road relocation project and associated active remediation activities, one can evaluate different routes to seek case closure.

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. 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.

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TABLE 1

Summary of Phase II ESA 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 Phase II ESA 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

TABLE 3

Summary of NR 716 Site Investigation Task 1 Soil Sample Analytical Results
Firestone Property
S73 W16437 Janesville Road
Muskego, Wisconsin

Analytical Parameter	Depth / Date / Units	SP-1 3' - 5' 3/30/10	SP-2 7.5' - 10' 3/30/10	SP-3 3' - 5' 3/30/10	SP-4 3' - 5' 3/30/10	SP-5 7.5' - 10' 3/30/10	SP-6 12.5' - 15' 3/30/10	SP-7 3' - 5' 3/30/10	SP-8 5' - 7.5' 3/30/10	SP-10 7.5' - 10' 3/30/10	SP-11 5' - 10' 3/30/10	SP-12 7.5' - 10' 3/30/10	NR 720 RCL Direct Contact/ Non-Industrial	NR 746 Table 1 RCL Groundwater Pathway	NR 746 Table 2 RCL Direct Contact/ Non-Industrial	Suggested PAH Generic Soil Cleanup Levels Direct Contact/ Non-Industrial	Suggested PAH Generic Soil Cleanup Levels Groundwater Pathway
PID	i.u.	0.0	1009	2.4	1.2	0.0	0.0	3.1	2.4	0.0	0.0	0.0	---	---	---	---	---
DRO	mg/kg	< 1.2	**153**	< 1.1	45.5	2.0	---	---	**1,010**	< 0.90	< 0.99	< 1.1	100	---	---	---	---
GRO	mg/kg	< 3.2	**662**	< 3.0	< 3.1	< 2.9	---	---	< 3.1	< 2.9	< 3.1	< 3.0	100	---	---	---	---
Detected PVOCs																	
Ethylbenzene	ug/kg	< 25.0	**8,490**	< 25.0	< 25.0	44.2 J	---	---	75.8	< 25.0	< 25.0	< 25.0	2,900	4,600	---	---	---
Toluene	ug/kg	< 25.0	**5,320**	< 25.0	< 25.0	43.9 J	---	---	49.6 J	< 25.0	< 25.0	< 25.0	1,500	38,000	---	---	---
1,2,4-Trimethylbenzene	ug/kg	< 25.0	19,200	< 25.0	< 25.0	< 25.0	---	---	127	< 25.0	< 25.0	< 25.0	---	83,000	---	---	---
1,3,5-Trimethylbenzene	ug/kg	< 25.0	10,200	< 25.0	< 25.0	< 25.0	---	---	33.1 J	< 25.0	< 25.0	< 25.0	---	11,000	---	---	---
Total Xylenes	ug/kg	< 75.0	**10,400**	< 75.0	< 75.0	< 75.0	---	---	154 J	< 75.0	< 75.0	< 75.0	4,100	42,000	---	---	---
PAHs																	
Acenaphthene	ug/kg	< 3.0	< 10.9	< 2.8	< 2.9	< 2.7	< 2.7	< 3.0	< 2.9	< 2.7	< 2.9	< 2.8	---	---	---	900,000	38,000
Acenaphthylene	ug/kg	< 3.4	< 12.4	< 3.2	< 3.3	< 3.1	< 3.0	< 3.4	< 3.3	< 3.1	< 3.3	< 3.2	---	---	---	18,000	700
Anthracene	ug/kg	< 4.9	< 18.1	4.7 J	< 4.8	< 4.5	< 4.4	< 5.0	< 4.9	< 4.5	< 4.8	< 4.7	---	---	---	5,000,000	3,000,000
Benzo(a)anthracene	ug/kg	< 3.0	< 11.1	12.2 J	4.8 J	< 2.7	< 2.7	< 3.0	9.6 J	< 2.7	< 2.9	< 2.9	---	---	---	88	17,000
Benzo(a)pyrene	ug/kg	< 3.5	< 12.7	**12.0 J**	6.0 J	< 3.2	< 3.1	< 3.5	7.8 J	< 3.1	< 3.4	< 3.3	---	---	---	8.8	48,000
Benzo(b)fluoranthene	ug/kg	< 3.7	< 13.5	11.3 J	9.6 J	< 3.3	< 3.3	< 3.7	12.6 J	< 3.3	< 3.6	< 3.5	---	---	---	88	360,000
Benzo(g,h,i)perylene	ug/kg	< 2.8	< 10.3	7.9 J	7.9 J	< 2.5	3.5 J	< 2.8	8.8 J	< 2.5	< 2.7	< 2.7	---	---	---	1,800	6,800,000
Benzo(k)fluoranthene	ug/kg	< 3.9	< 14.5	14.6 J	11.6 J	< 3.6	< 3.5	< 4.0	16.0 J	< 3.6	< 3.8	< 3.8	---	---	---	880	870,000
Chrysene	ug/kg	< 3.8	< 14.1	20.4	14.2 J	< 3.5	5.1 J	< 3.9	25.7	< 3.5	< 3.7	< 3.7	---	---	---	8,800	37,000
Dibenz(a,h)anthracene	ug/kg	< 5.7	< 21.2	< 5.5	< 5.6	< 5.2	< 5.2	< 5.8	< 5.7	< 5.2	< 5.6	< 5.5	---	---	---	8.8	38,000
Fluoranthene	ug/kg	< 10.6	< 38.9	30.9	12.2 J	< 9.6	< 9.5	< 10.7	19.1 J	< 9.6	< 10.3	< 10.1	---	---	---	600,000	500,000
Fluorene	ug/kg	< 5.3	< 19.4	< 5.0	< 5.2	< 4.8	< 4.7	< 5.3	< 5.2	< 4.8	< 5.1	< 5.0	---	---	---	600,000	100,000
Indeno(1,2,3-cd)pyrene	ug/kg	< 3.0	< 11.1	6.1 J	6.5 J	< 2.7	< 2.7	< 3.0	6.2 J	< 2.7	< 2.9	< 2.9	---	---	---	88	680,000
1-Methylnaphthalene	ug/kg	< 3.2	375	< 3.1	< 3.2	< 2.9	< 2.9	< 3.3	10.1 J	< 2.9	< 3.1	< 3.1	---	---	---	1,100,000	23,000
2-Methylnaphthalene	ug/kg	< 3.2	876	< 3.1	< 3.2	< 2.9	< 2.9	< 3.3	10.2 J	< 2.9	< 3.1	< 3.1	---	---	---	600,000	20,000
Naphthalene	ug/kg	< 3.7	1,180	4.3 J	< 3.6	3.5 J	< 3.3	< 3.7	16.2 J	< 3.4	< 3.6	< 3.5	---	---	---	20,000	400
Phenanthrene	ug/kg	< 4.6	< 17.1	17.1 J	< 4.6	< 4.2	< 4.2	< 4.7	15.1 J	< 4.2	< 4.5	< 4.4	---	---	---	18,000	1,800
Pyrene	ug/kg	< 3.9	< 14.2	32.1	12.3 J	< 3.5	< 3.5	< 3.9	30.8	< 3.5	< 3.8	< 3.7	---	---	---	500,000	8,700,000
PCBs	ug/kg	---	---	---	ND	ND	ND	ND	ND	---	---	ND	---	---	---	---	---

Notes:
Bold concentrations exceed NR 720 RCLs/Suggested PAH generic soil cleanup levels based on a non-industrial direct contact risk
Boxed concentrations exceed NR 746 RCLs/Suggested PAH generic soil cleanup levels based on a protection of groundwater risk
ND - Not detected above laboratory method detection limits
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitatior
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per millior
ug/kg -micrograms per kilogram, parts per billion
PVOC - petroleum volatile organic compounds
PCB - polychlorinated biphenyls
PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level

TABLE 4

Summary of NR 716 Site Investigation Task 1Groundwater Sample Analytical Results

Firestone Property

S73 W16437 Janesville Road

Muskego, Wisconsin

Analytical Parameter	Sample ID Date Units	TW-2 3/30/2010	TW-5 3/30/2010	TW-11 3/30/2010	TW-12 3/30/2010	NR 140 ES	NR 140 PAL
Detected VOCs							
Benzene	ug/l	53.9	< 0.41	< 0.41	< 0.41	5	0.5
sec-Butylbenzene	ug/l	1.0 J	< 0.89	< 0.89	< 0.89	---	---
1,2-Dichloroethane	ug/l	7.2	< 0.36	< 0.36	< 0.36	5	0.5
Ethylbenzene	ug/l	**152**	< 0.54	< 0.54	< 0.54	700	140
Isopropylbenzene (Cumene)	ug/l	6.8	< 0.59	< 0.59	< 0.59	---	---
Naphthalene	ug/l	**75.8**	< 0.89	< 0.89	< 0.89	100	10
n-Propylbenzene	ug/l	25.0	< 0.81	< 0.81	< 0.81	---	---
Tetrachloroethene	ug/l	<0.45	**0.77 J**	< 0.45	< 0.45	5	0.5
Toluene	ug/l	**207**	< 0.67	< 0.67	< 0.67	1,000	200
Trimethylbenzenes	ug/l	**135.4**	< 1.8	< 1.8	< 1.8	480	96
Total Xylenes	ug/l	125.8	< 2.63	< 2.63	< 2.63	10,000	1,000
PAHs							
Acenaphthene	ug/l	---	0.025 J	< 0.0046	< 0.0047	---	---
Acenaphthylene	ug/l	---	0.0042 J	< 0.0036	< 0.0037	---	---
Anthracene	ug/l	---	0.010 J	< 0.0058	0.0063 J	3,000	600
Benzo(a)anthracene	ug/l	---	0.011 J	0.019 J	0.018 J	---	---
Benzo(a)pyrene	ug/l	---	0.010 J	0.020 J	**0.028 J**	0.2	0.02
Benzo(b)fluoranthene	ug/l	---	0.018 J	0.019 J	**0.035 J**	0.2	0.02
Benzo(ghi)perylene	ug/l	---	0.015 J	0.016 J	0.037 J	---	---
Benzo(k)fluoranthene	ug/l	---	0.011 J	0.024 J	0.032 J	---	---
Chrysene	ug/l	---	**0.021 J**	**0.023 J**	**0.039 J**	0.2	0.02
Dibenz(a,h)anthracene	ug/l	---	0.0039 J	0.0036 J	0.0076 J	---	---
Fluoranthene	ug/l	---	0.047 J	0.048	0.045 J	400	80
Fluorene	ug/l	---	0.016 J	< 0.0048	< 0.0050	400	80
Indeno(1,2,3-cd)pyrene	ug/l	---	0.0079 J	0.013 J	0.024 J	---	---
1-Methylnaphthalene	ug/l	---	0.038 J	< 0.0050	< 0.0052	---	---
2-Methylnaphthalene	ug/l	---	0.042 J	< 0.0039	0.0055 J	---	---
Naphthalene	ug/l	---	0.068	0.0087 J	0.0091 J	100	10
Phenanthrene	ug/l	---	0.046 J	0.020 J	0.019 J	---	---
Pyrene	ug/l	---	0.034 J	0.038 J	0.052	250	50

Notes:

Boxed concentrations exceed NR 140 ES

Bold concentrations exceed NR 140 PAL

--- - not analyzed/no standard established

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

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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

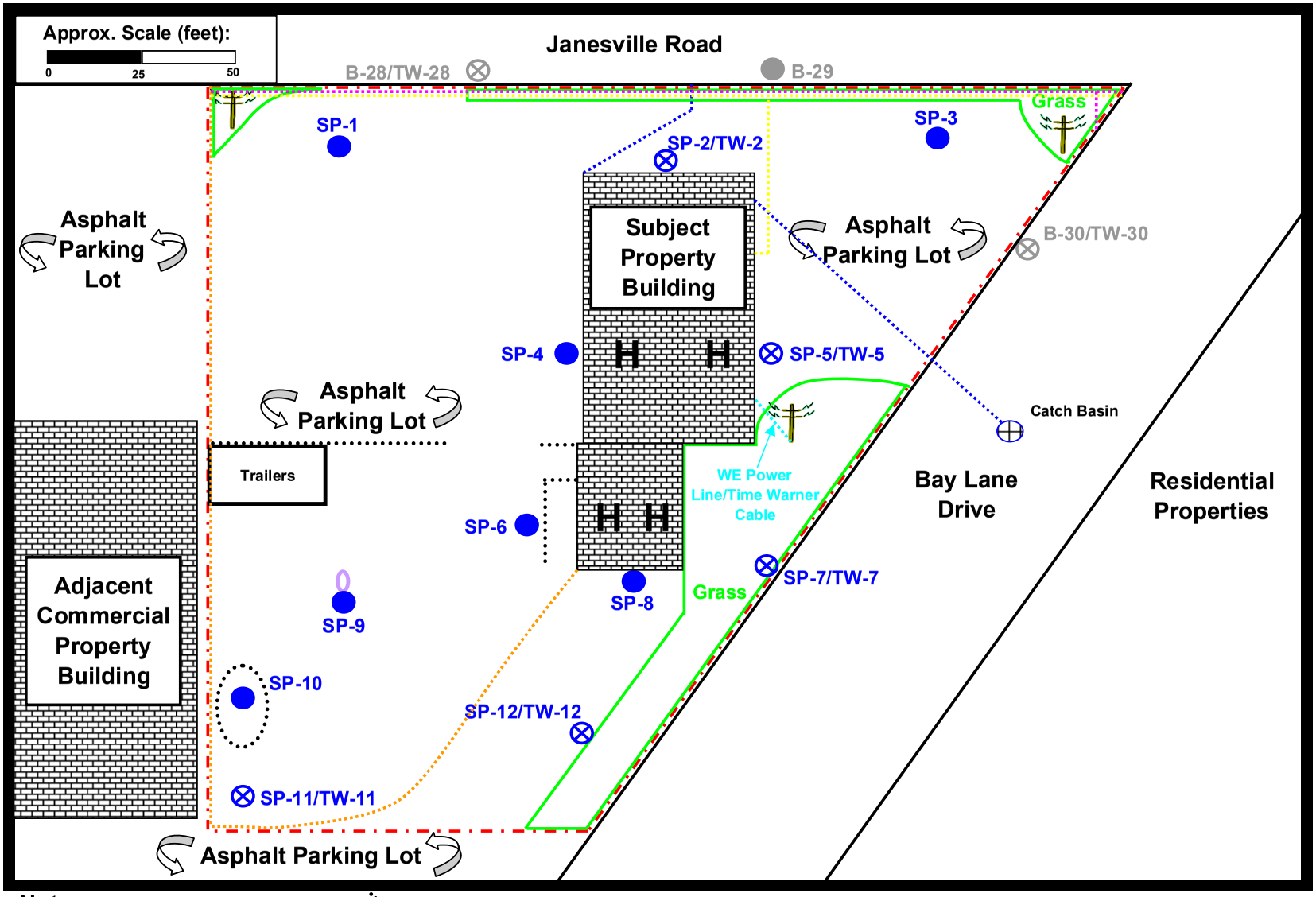
0 1000 2000 3000 4000 5000 6000 7000 8000 FEET

0 1 2 KILOMETERS

CONTOUR INTERVAL 10 FEET

Southeast 1/4 of the Northwest 1/4 of Section 10, Township 5 North, Range 20 East

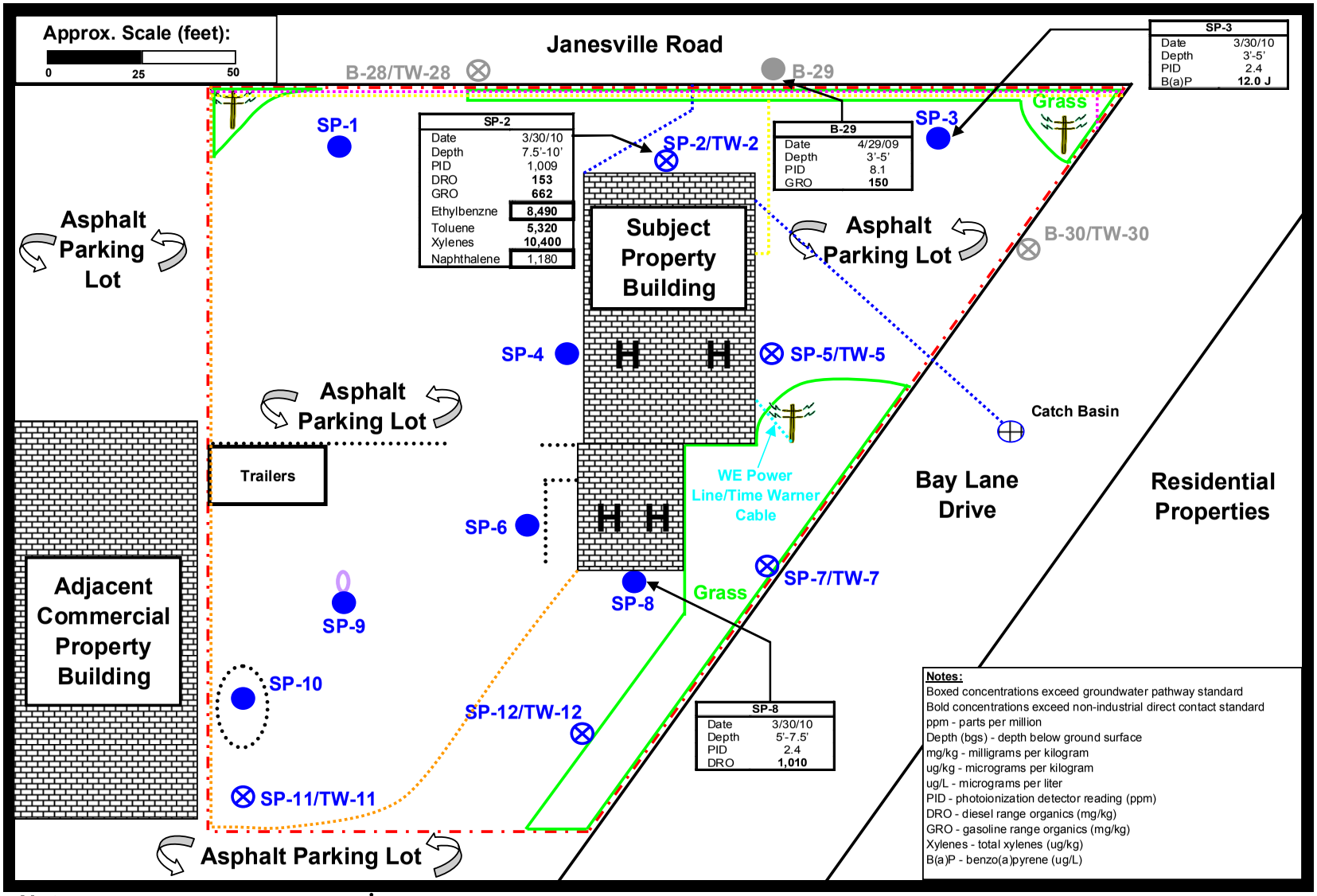
psi Information To Build On Engineering • Consulting • Testing	Environmental Services W228 N727 Westmound Drive Waukesha, Wisconsin 53186 (262) 970-9022 Fax (262) 970-9032	Firestone Property S73 W16437 Janesville Road Muskego, Wisconsin **Site Location Map**	DATE: 2/10/2010	PROJECT NO: 0054263 **Figure 1**



Notes:

- Telephone Pole
- Approximate Former UST Location
- Approximate GPR Anomaly Location
- Fence
- Subject Property Boundary
- Former Boring/Temporary Monitoring Well Location
- Soil Probe Boring Location
- H - Underground Hyraulic Lifts
- Former Soil Probe Boring Location
- Soil Boring/Temporary Monitoring Well Location
- AT&T Underground Utility
- WE Underground Gas Utility
- Traffic Signal Underground Utility
- Water Line

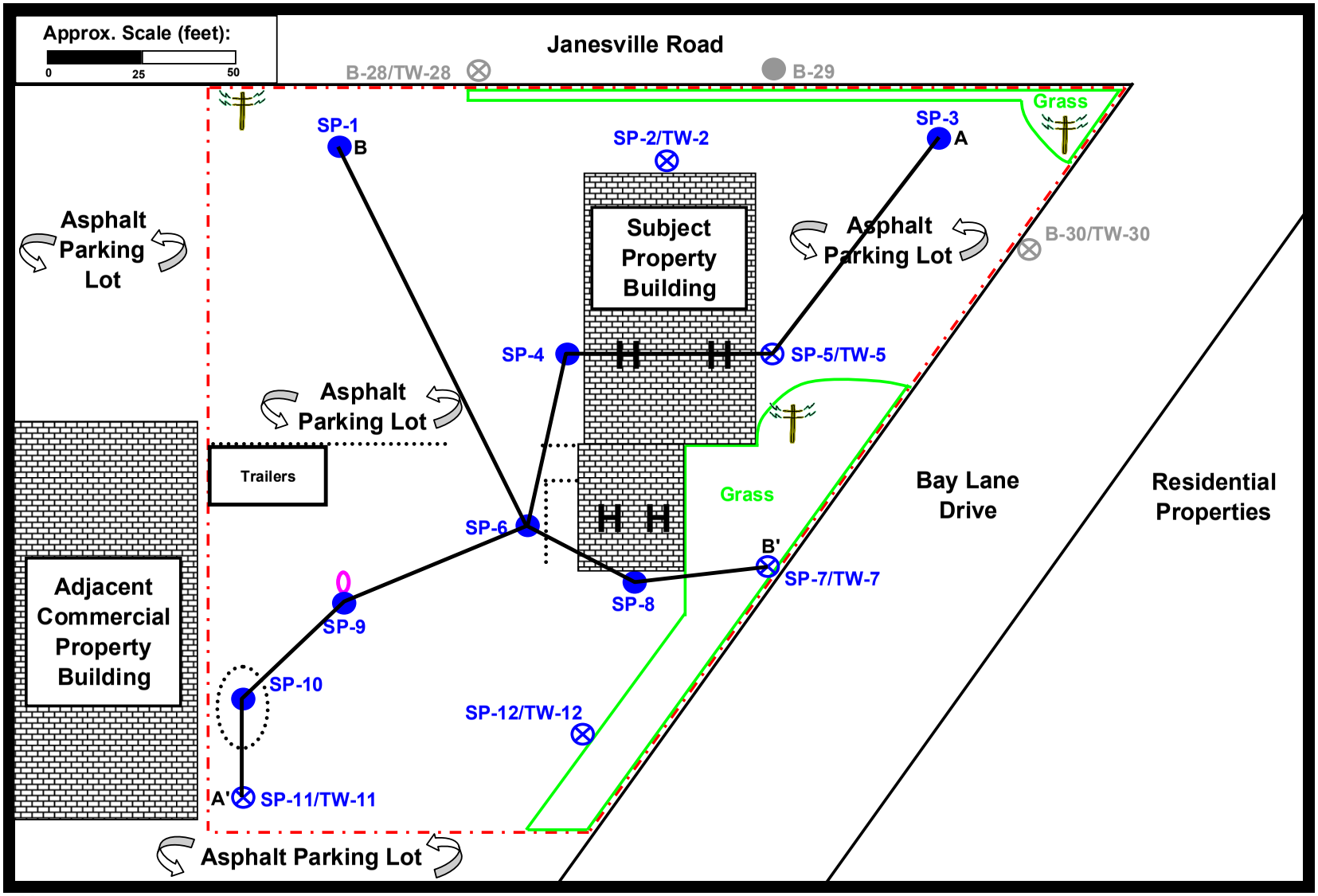
psi Information To Build On — Engineering • Consulting • Testing	**Environmental Services** W228 N727 Westmound Drive Waukesha, Wisconsin 53186 (262) 970-9022 Fax (262) 970-9033	**S73 W16437 Janesville Road** Muskego, Wisconsin	**PSI Project Number:** 0054263	NORTH
		Figure 2 Boring Location Plan	**Scale:** See Above **Date:** 2/10/2010	



Notes:

- Telephone Pole
- Approximate Former UST Location
- Approximate GPR Anomaly Location
- Fence
- Subject Property Boundary
- Former Boring/Temporary Monitoring Well Location
- Soil Probe Boring Location
- H - Underground Hyraulic Lifts
- Former Soil Probe Boring Location
- Soil Boring/Temporary Monitoring Well Location
- AT&T Underground Utility
- WE Underground Gas Utility
- Traffic Signal Underground Utility
- Water Line

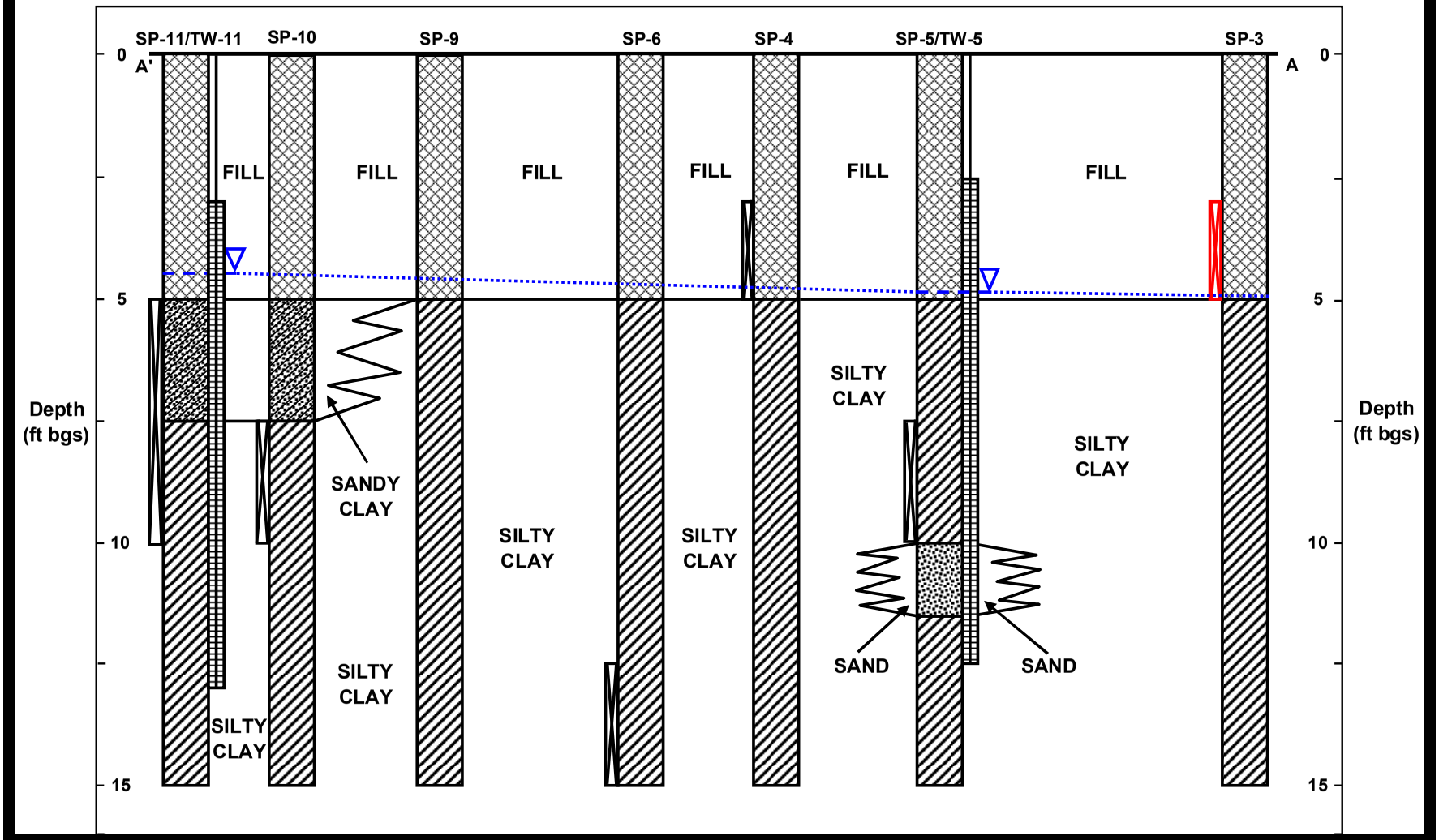
psi Information To Build On — Engineering • Consulting • Testing	**Environmental Services** W228 N727 Westmound Drive Waukesha, Wisconsin 53186 (262) 970-9022 Fax (262) 970-9033	**S73 W16437 Janesville Road** Muskego, Wisconsin	**PSI Project Number:** 0054263	NORTH
		Figure 3 Soil Isoconcentration Map	**Scale:** See Above **Date:** 3/30/2010	



Notes:

- Telephone Pole
- Approximate Former UST Location
- Approximate GPR Anomaly Location
- Fence
- Subject Property Boundary
- Former Soil Probe Boring/Temporary Monitoring Well
- Soil Probe Boring Location
- H - Underground Hyraulic Lifts
- Former Soil Probe Boring Location
- Soil Probe Boring/Temporary Monitoring Well Location

psi Information To Build On Engineering • Consulting • Testing	**Environmental Services** W237 N2878 Woodgate Road Suite 2 Pewaukee, Wisconsin 53072 (262) 347-0898 Fax (262) 347-2256	**S73 W16437 Janesville Road** Muskego, Wisconsin	**PSI Project Number:** 0054263		NORTH
		Figure 4 Geologic Cross-Section Transect Map	**Scale:** See Above	**Date:** 3/30/2010	



Notes:

- Soil Sample Interval > RCLs
- Soil Sample Interval
- FILL
- SANDY CLAY
- SAND
- Inferred Groundwater Level
- SILTY CLAY
- Groundwater Level on 3/30/2010
- 1" Monitoring Well Screen & Riser

Cross Section Transect

psi Information To Build On
Engineering • Consulting • Testing

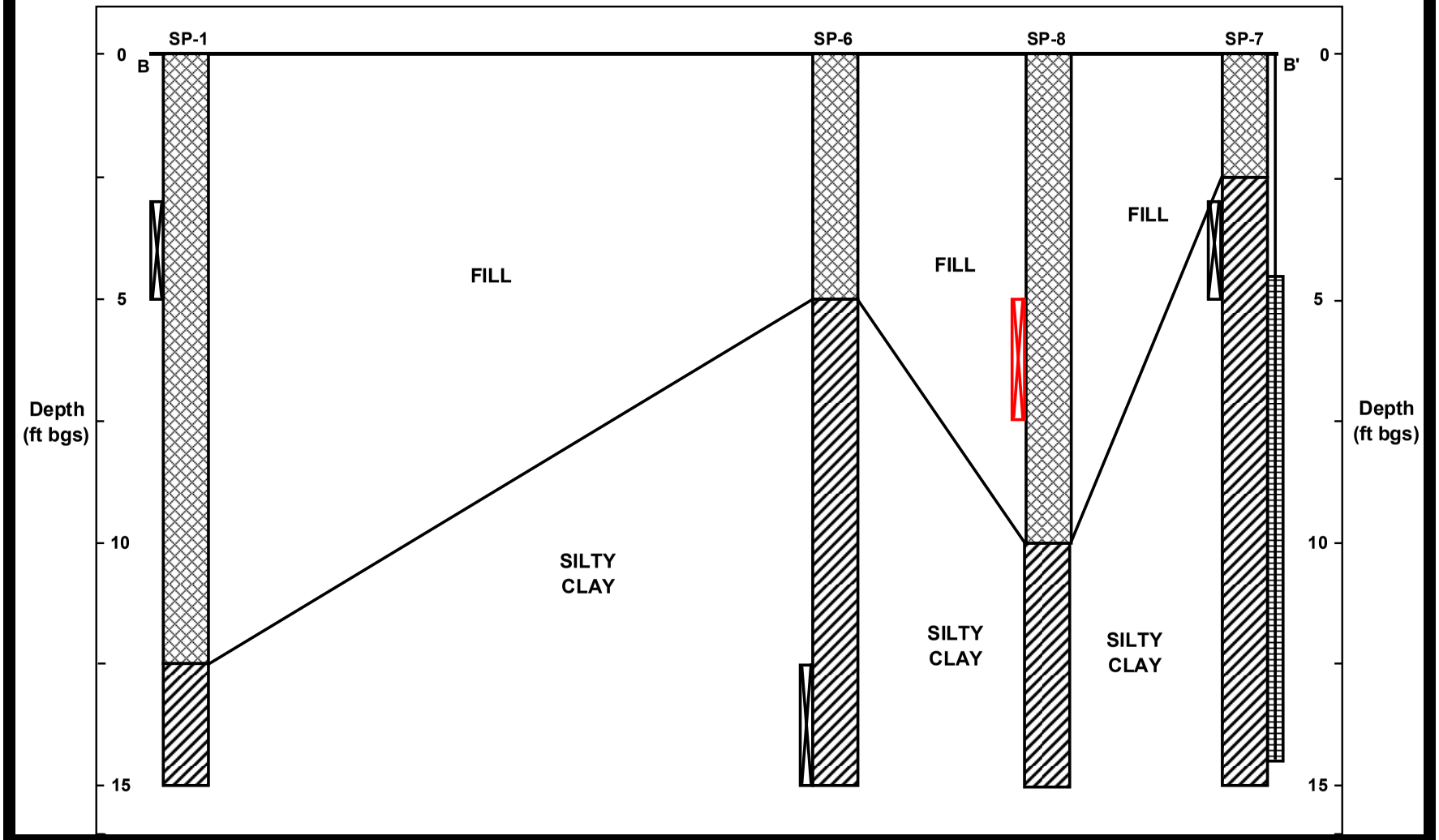
Environmental Services
W237 N2878 Woodgate Road Suite 2
Pewaukee, Wisconsin 53072
(262) 347-0898 Fax (262) 347-2256

Firestone Property
S73 W16437 Janesville Road, Muskego, WI

Figure 5
A' - A Geological Cross-Section Map

PSI Project Number: 0054263

Date: 3/30/2010

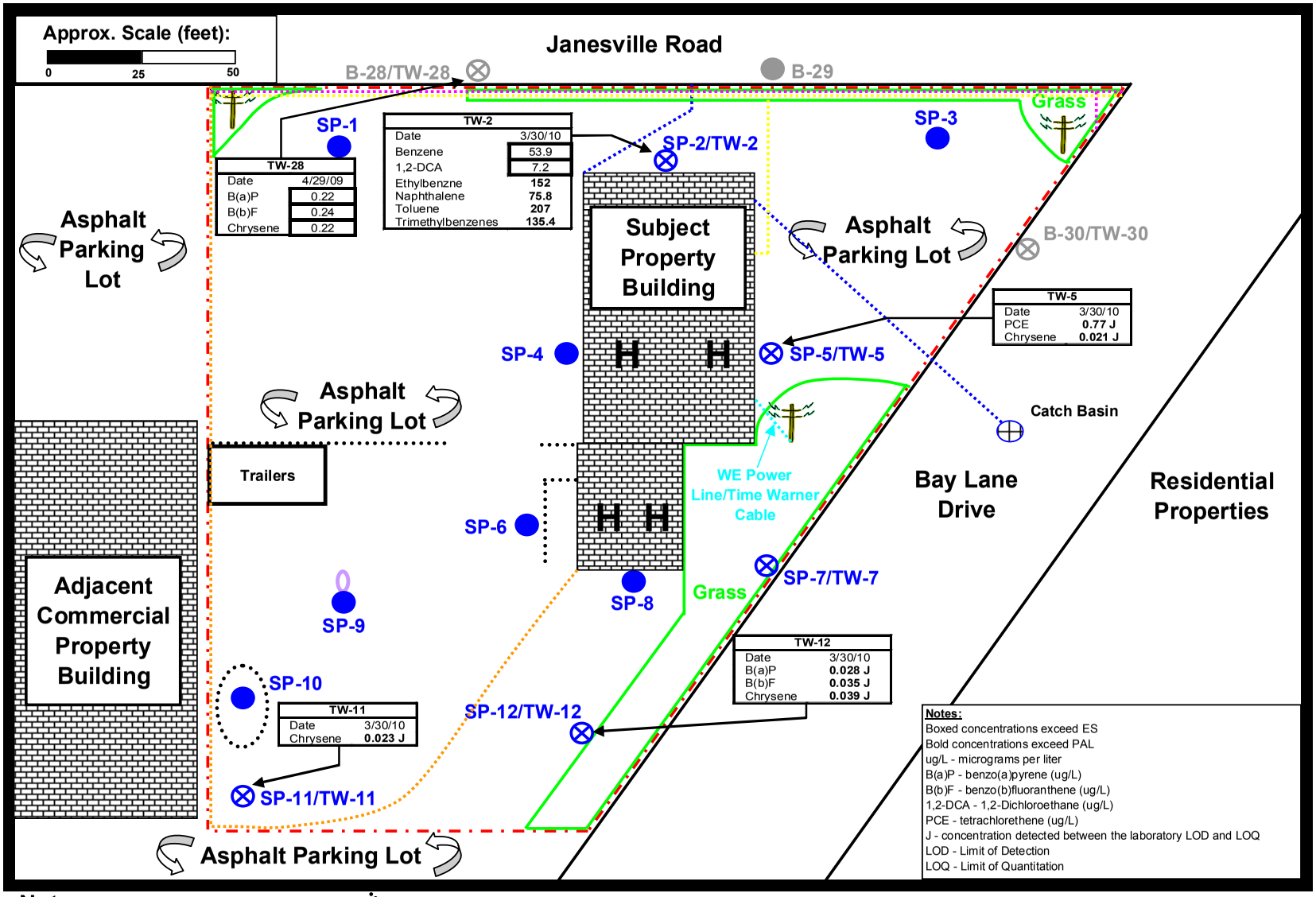


Notes:

- FILL
- SILTY CLAY
- Soil Sample Interval > RCLs
- Soil Sample Interval
- 1" Monitoring Well Screen & Riser

Cross Section Transect

Information To Build On Engineering • Consulting • Testing	**Environmental Services** W237 N2878 Woodgate Road Suite 2 Pewaukee, Wisconsin 53072 (262) 347-0898 Fax (262) 347-2256	**Firestone Property** S73 W16437 Janesville Road, Muskego, WI	**PSI Project Number:** 0054263
		Figure 6 B - B' Geological Cross-Section Map	**Date:** 3/30/2010



Notes:

- Telephone Pole
- Approximate Former UST Location
- Approximate GPR Anomaly Location
- Fence
- Subject Property Boundary
- Former Boring/Temporary Monitoring Well Location
- Soil Probe Boring Location
- H - Underground Hyraulic Lifts
- Former Soil Probe Boring Location
- Soil Boring/Temporary Monitoring Well Location
- AT&T Underground Utility
- WE Underground Gas Utility
- Traffic Signal Underground Utility
- Water Line

psi Information To Build On — Engineering • Consulting • Testing	**Environmental Services** W228 N727 Westmound Drive Waukesha, Wisconsin 53186 (262) 970-9022 Fax (262) 970-9033	**S73 W16437 Janesville Road** Muskego, Wisconsin	**PSI Project Number:** 0054263	NORTH
		Figure 7 Groundwater Isoconcentration Map	**Scale:** See Above **Date:** 3/30/2010	

APPENDICES

Appendix A:	Phase II ESA Laboratory Analytical Reports
Appendix B:	Acuren GPR Examination Report
Appendix C:	Waste Manifest Information
Appendix D:	Soil Boring Logs
Appendix E:	WDNR Borehole Abandonment Forms
Appendix F:	NR 716 Site Investigation: Task 1 Laboratory Analytical Reports

APPENDIX A

PHASE II ESA 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

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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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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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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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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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(920)469-2436

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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Green Bay, WI 54302
(920)469-2436

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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(920)469-2436

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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(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)

APPENDIX B

ACUREN GPR EXAMINATION REPORT

ACUREN
4250 N. 126th Street
Brookfield, WI 53045
(262) 781-0105
Fax (262) 781-7796

SC# 197851

GPR Examination Report

Customer/Contact: PSI	Date 3-26-10
Location/Address: JANESVILLE RD. & BAY LANE DR. MUSKEGO, WI	
Unit/System: PROPERTY ON S.W. CORNER	P.O.
Item Description: UTILITY SCAN - TANK DISCOVERY	

Material:	Thickness/Depth:	Quantity:	Dielectric Constant:
ASPHALT - GRASS - GRAVEL	VARIED	SEE BELOW	4.0

Procedure: GPR1 REV. 0	Acceptance Standard: CLIENT INFO

Stage of Manufacture: Initial ☐ Repair ☐ Comment: OUTDOOR ASPHALT, GRASS, GRAVEL
Final ☒ In Process ☐

Age of Pour: N/A

Equipment: SIR 3000 GROUND CART 400 MHz ANTENNA

Comments : Include Accept/Reject

PERFORMED 2D LINE SCANNING OF ENTIRE PROPERTY ON THE SOUTHWEST CORNER OF JANESVILLE AND BAY LANE ROADS. NO TANKS WERE LOCATED ON PROPERTY. 1 TARGET FOUND IN SOUTHWEST CORNER OF LOT IS 3' DEEP AND IS 3'x3' IN SIZE. THIS WAS MARKED WITH GREEN PAINT AND EXPLAINED TO MATT DAHLEM OF PSI. OTHER INSIGNIFICANT TARGETS, I.E. UTILITIES AND SURFACE ITEMS, WERE NOT MARKED AS PER CUSTOMER.

1 HR. MOB/DEMOB

Date:	Customer Contact	Per Diem	Report #	Unit #	Number on job
3-26-10	MATT DAHLEM	Yes (No)	1	1106	2

Travel If Applicable		Airlines / Vehicle	Hours Worked	Total Hours
Hours: 1	Miles total 50	(Vehicle)	7:00 AM PM to 11:00 AM PM	6

Signature of Customer's Representative certifies time and material correct.

B. SMITH - Operative — Name and level of Acuren Examiner

A. COTTONE — Assistant

GPR-101

Disclaimer on back

GROUND PENETRATING RADAR

ACKNOWLEDGEMENT AND LIMITATION OF LIABILITY

The Customer acknowledges that: (a) when providing inspection services, ACUREN's employees shall utilize ground penetrating radar designed to locate metal cables, rebar, post-tensioning cables and other objects located within floors and walls; (b) such equipment has inherent limitations and is susceptible to interference from strong electrical currents, power fluctuations, radio waves, microwaves and the like which affect its accuracy; (c) objects may be masked or hidden by the presence of other objects; (d) although ACUREN's technicians have received training in the operation and interpretation of information produced by the ground penetrating radar, there remains the possibility of errors in reading and interpreting the resulting information. Therefore, ACUREN provides no warranty or representation as to the accuracy of the inspection reports produced from the use of ground penetrating radar, and ACUREN's sole responsibility herein is limited to providing the ground penetrating radar equipment and technicians who have been reasonably trained for its use and operation.

Notwithstanding any other provision in this agreement or any applicable statutory provisions, ACUREN shall not be liable to the Customer for special or consequential damages or damages for loss of use arising directly or indirectly from any breach of this agreement, fundamental or otherwise or from any negligent or torturous acts or omissions of ACUREN's employees or agents. In no event shall the liability in respect of the services exceed the amount paid for such services.

If the Customer is not the owner of the property being inspected, the Customer will ensure that owner is informed of the above provisions and has agreed to be bound by such terms before any work is performed by ACUREN, and if the Customer shall fail to obtain the owner's binding agreement to be bound by the above terms, the Customer shall indemnify and save ACUREN harmless from all liability that would otherwise have been limited by the above provisions if the owner had agreed to be bound thereto.

The undersigned hereby agrees to the above written acknowledgement and limitation of liability:

_____

APPENDIX C

WASTE MANIFEST INFORMATION

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number:

2. Page 1 of 1

3. Emergency Response Phone: 800 842 9792

4. Manifest Tracking Number: 007854896 JJK

5. Generator's Name and Mailing Address
PSI Professional Service Industries Inc
W237 N2878 Woodgate Rd, Suite 2
Pewaukee WI 53072
Generator's Phone: 920 246-8292

Att: Matt Dahlem

Generator's Site Address (if different than mailing address)
Firestone
S73 W16437 Janesville Rd
Muskego WI 53150

6. Transporter 1 Company Name: Advanced Waste Carriers, Inc.
U.S. EPA ID Number: WI 0 0 0 0 8 1 6 3 8 1

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Advanced Waste Services - Chemworks
3801L West Mckinley Ave
Milwaukee WI 53208
Facility's Phone: 414 342 1852
U.S. EPA ID Number: WI R 0 0 0 1 3 8 6 7 2

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA regulated Non-DOT hazardous material	011	DM	5500	P	NONE		
	2. Non-RCRA regulated Non-DOT hazardous material	002	DM	110	G	NONE		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) #1003242 Soil cuttings
2) #1003243 Purge Water

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Matt Dahlem on behalf of Waukesha County
Signature: Matt Dahlem
Month 09 Day 23 Year 10

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Lamb
Signature: Michael L
Month 09 Day 23 Year 10
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: R Lockhart
Signature:
Month 9 Day 24 Year 10

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

APPENDIX D

SOIL BORING LOGS

Professional Service Industries, Inc.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-01

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road Muskego, WI	Hammer Type:	Automatic	At Completion	Not Obsvd.
		Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	70	0.0	Fill, 4" Asphalt over Sandy Clay, Brown, Semi-Moist, Moderate Plasticity, Medium Stiff	Fill				
				2	70	0.0	FILL, Brown-Gray Silty Clay, Stiff, Semi-Moist, Moderate Plasticity, 5% Medium Sand	Fill				Sample 3'-5' Submitted for Laboratory Analysis
	5			3	100	0.0	FILL, Brown Silty Clay, Stiff, Semi-Moist, Low Plasticity, 5% Pebbles	Fill				
				4	100	0.0	FILL, Brown Silty Clay, Stiff, Semi-Moist, Low Plasticity, 5% Pebbles	Fill				
	10			5	100	0.0	FILL, Brown Silty Clay, Stiff, Semi-Moist, Low Plasticity, 5% Pebbles	Fill				
				6	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand - Pebbles	CL				
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-02/TW-02

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	14 Ft.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	13.55 Ft.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Surface Elev.:

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	PID	MATERIAL DESCRIPTION	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	70	0.0	FILL, 4" Asphalt over Silty Sandy Gravel, Dry	Fill				
				2	70	11.1	FILL, Silty Clay, Brown-Dark Gray, Stiff, Semi-Moist, Moderate Plasticity, 10% Medium Sand	Fill				
	5			3	100	736	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 5% Coarse Sand-Pebbles	CL				
				4	100	1009						Sample 7.5'-10' Submitted for Laboratory Analysis
	10			5	100	221.6	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 5% Coarse Sand-Pebbles	CL				
				6	100	105.2	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 5% Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s.					
							Temporary Monitoring Well TW-02 Installed to 14' b.g.s.; 10' Screen					

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-03

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road Muskego, WI	Hammer Type:	Automatic	At Completion	Not Obsvd.
		Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	50	0.0	FILL, 4" Asphalt Over Sandy Gravel, Dry	Fill				
				2	50	2.4	FILL, Dark Gray-Brown Silty Clay, Stiff, Semi-Moist, Moderate Plasticity, 5% Medium-Coarse Sand	Fill				Sample 3'-5' Submitted for Laboratory Analysis
	5			3	100	1.2	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
				4	100	1.2	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
	10			5	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft	Sample Types:	Remarks:
Date Boring Started:	3/30/10	Auger Cutting, Shelby Tube, Split-Spoon, Hand Auger, Rock Core	
Date Boring Completed:	3/30/10		
Logged By:	MD		
Drilling Contractor:	On-Site Environmental		

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

Professional Service Industries, Inc.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-04

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road Muskego, WI	Hammer Type:	Automatic	At Completion	Not Obsvd.
		Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	70	0.0	FILL, 2" Asphalt Over Clayey Sand & Gravel, Soft, Moist, Brown-Black	Fill				
				2	70	1.2	FILL, Sandy Clay, Brown, Moist, Soft, High Plasticity, Medium Stiff	Fill				Sample 3'-5' Submitted for Laboratory Analysis
	5			3	100	0.0	SILTY CLAY, Brown with Gray Mottling, Medium Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
				4	100	0.0	SILTY CLAY, Brown with Gray Mottling, Medium Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
	10			5	100	0.0	SILTY CLAY, Brown with Gray Mottling, Medium Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Gray Mottling, Medium Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-05/TW-05

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	10 Ft.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	4.7 Ft.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Surface Elev.:

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	PID	MATERIAL DESCRIPTION	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	50	0.0	FILL, 4" Asphalt Over Clayey Sand, Rust-Brown, Moist	Fill				
				2	50	0.0	FILL, Sandy Clay, Light-Dark Brown, Medium Stiff, Moist, Moderate Plasticity, 10% Sand-Pebbles	Fill				
	5			3	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Semi-Moist, Stiff, Moderate Plasticity, 10% Subrounded Coarse Sand-Gravel	CL				
				4	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Semi-Moist, Stiff, Moderate Plasticity, 10% Subrounded Coarse Sand-Gravel	CL				Sample 7.5'-10' Submitted for Laboratory Analysis
	10			5	100	0.0	SAND, Coarse-Grained, Saturated From 10'-11.5'	SP				
							SILTY CLAY, Brown with Gray/Rust Mottling, Semi-Moist, Stiff, Moderate Plasticity, 10% Subrounded Coarse Sand-Gravel	CL				
				6	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Semi-Moist, Stiff, Moderate Plasticity, 10% Subrounded Coarse Sand-Gravel	CL				
	15						End of Boring at 15' b.g.s.					

Temporary Monitoring Well TW-5 Installed to 12.5' b.g.s.; 10' Screen

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-06

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot 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:			

Surface Elev.:

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	PID	MATERIAL DESCRIPTION	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	50	0.0	FILL, 2" Gravel Over Brown-Black-Gray-Olive-Rust Silty Clay, Stiff, Moderate Plasticity, Semi-Moist, 10% Coarse Sand-Pebbles	Fill				
				2	50	0.0	FILL, Clayey Sand and Gravel, Semi-Moist	Fill				
	5			3	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
				4	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
	10			5	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Semi-Moist, Moderate Plasticity, 10% Subrounded Coarse Sand-Pebbles	CL				Sample 12.5'-15' Submitted for Laboratory Analysis
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft	Sample Types:	Remarks:
Date Boring Started:	3/30/10	Auger Cutting, Shelby Tube, Split-Spoon, Hand Auger, Rock Core	
Date Boring Completed:	3/30/10		
Logged By:	MD		
Drilling Contractor:	On-Site Environmental		

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Professional Service Industries, Inc.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-07/TW-07

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	12.5 Ft.
Location:	S73 W16437 Janesville Road Muskego, WI	Hammer Type:	Automatic	At Completion	Not Obsvd.
		Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	100	0.0	Fill, 4" Gravel Over Organic Black-Brown Silty Clay, Moist, High Plasticity	Fill				
				2	100	3.1	SILTY CLAY, Brown with Gray/Rust Mottling, Medium Stiff, Moist, High Plasticity, 5% Subrounded Coarse Sand-Pebbles	CH				Sample 3'-5' Submittled for Laboratory Analysis
	5			3	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Medium Stiff, Moist, High Plasticity, 5% Subrounded Coarse Sand-Pebbles	CH				
				4	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Medium Stiff, Moist, High Plasticity, 5% Subrounded Coarse Sand-Pebbles	CH				
	10			5	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Medium Stiff, Moist, High Plasticity, 5% Subrounded Coarse Sand-Pebbles	CH				
				6	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Medium Stiff, Moist, High Plasticity, 5% Subrounded Coarse Sand-Pebbles	CH				
	15						End of Boring at 15' b.g.s Temporary Monitoring Well TW-7 Installed to 14.5' b.g.s.; 10' Screen					

Completion Depth:	15.0 ft	Sample Types:	Remarks:
Date Boring Started:	3/30/10	Auger Cutting, Shelby Tube, Split-Spoon, Hand Auger, Rock Core	
Date Boring Completed:	3/30/10		
Logged By:	MD		
Drilling Contractor:	On-Site Environmental		

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

Professional Service Industries, Inc.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-08

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road Muskego, WI	Hammer Type:	Automatic	At Completion	Not Obsvd.
		Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	80	0.0	FILL, 4" Asphalt over Dark gray-Brown Sandy Silty Clay, Moist, Stiff, Moderate Plasticity, 10% Coarse Sand-Pebbles	Fill				
				2	80	0.0	FILL, Brown-Dark Gray Sandy Silty Clay, Moist, Stiff, Moderate Plasticity, 20% Coarse Sand-Pebbles	Fill				
	5			3	90	2.4	FILL, Silty Clay, Dark Gray, Medium Stiff, Moderate Plasticity, Moist, 10% Medium Sand	Fill				Sample 5'-7.5' Submitted for Laboratory Analysis
				4	90	0.0	FILL, Olive-Gray-Brown-Black Silty Clay, Stiff, Moist, Moderate Plasticity, 10% Coarse Sand-Pebbles	Fill				
	10			5	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Low Plasticity, 5% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Stiff, Semi-Moist, Low Plasticity, 5% Subrounded Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-09

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	10 Ft.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	10 Ft.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	80	0.0	FILL, 2" Gravel Over Dark Gray Silty Clay, Semi-Moist, Medium Stiff, Low Plasticity, 10% Sand	Fill				
				2	80	0.0	FILL, Brown Silty Clay, Semi-Moist, Medium Stiff, Moderate Plasticity, 20% Sand-Pebbles	Fill				
	5			3	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Medium Stiff, Low Plasticity, Semi-Moist, 5% Subrounded Coarse Sand-Pebbles	CL				
				4	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Medium Stiff, Low Plasticity, Semi-Moist, 5% Subrounded Coarse Sand-Pebbles	CL				
	10			5	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Medium Stiff, Low Plasticity, Semi-Moist, 5% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Medium Stiff, Low Plasticity, Semi-Moist, 5% Subrounded Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft	Sample Types:	Remarks:
Date Boring Started:	3/30/10	Auger Cutting; Shelby Tube; Split-Spoon; Hand Auger; Rock Core	
Date Boring Completed:	3/30/10		
Logged By:	MD		
Drilling Contractor:	On-Site Environmental		

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

Professional Service Industries, Inc.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-10

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	Not Obsvd.
Location:	S73 W16437 Janesville Road Muskego, WI	Hammer Type:	Automatic	At Completion	Not Obsvd.
		Latitude:		24 Hr.	n/a
		Longitude:			

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	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	100	0.0	FILL, 2" Gravel Over Sandy Silty Clay, Dry, Stiff, Low Plasticity, 20% Coarse Sand-Pebbles	Fill				
				2	100	0.0	FILL, Light-Dark Brown Silty Clay, Semi-Moist, Medium Stiff, Moderate Plasticity, 5% Subrounded Pebbles	Fill				
	5			3	100	0.0	SANDY CLAY, Brown, Very Moist, High Plasticity, Soft, 10% Pebbles	SC				
				4	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Moderate Plasticity, Moist, 10% Subrounded Coarse Sand-Pebbles	CL				Sample 7.5'-10' Submitted for Laboratory Analysis
	10			5	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Moderate Plasticity, Saturated, 10% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Moderate Plasticity, Saturated, 10% Subrounded Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s.					

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-11/TW-11

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	10 Ft.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	4.45 Ft.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Surface Elev.:

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	PID	MATERIAL DESCRIPTION	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	80	0.0	FILL, 2" Gravel over Brown-Dark Gray Sandy Clay, Medium Stiff, Low Plasticity, Dry, 20% Pebbles	Fill				
				2	80	0.0	FILL, 2" Gravel over Brown-Dark Gray Sandy Clay, Medium Stiff, Low Plasticity, Dry, 20% Pebbles	Fill				
	5			3	100	0.0	SANDY CLAY, Brown, Very Moist, High Plasticity, Soft, 10% Pebbles	SC				Sample 5'-10' Submitted for Laboratory Analysis
				4	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Moderate Plasticity, Moist, 10% Subrounded Coarse Sand-Pebbles	CL				
	10			5	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Moderate Plasticity, Saturated, 10% Subrounded Coarse Sand-Pebbles	CL				
				6	100	0.0	SILTY CLAY, Brown with Gray/Rust Mottling, Stiff, Moderate Plasticity, Saturated, 10% Subrounded Coarse Sand-Pebbles	CL				
	15						End of Boring at 15' b.g.s. Temporary Monitoring Well TW-11 Installed to 13' b.g.s.; 10' Screen					

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072
Telephone: 262-347-0898
Fax: 262-347-2256

LOG OF BORING SP-12/TW-12

PSI Job No.:	0054263	Drilling Method:	Direct-Push	WATER LEVELS	
Project:	Firestone	Sampling Method:	5-Foot Macro-Core	While Drilling	10 Ft.
Location:	S73 W16437 Janesville Road	Hammer Type:	Automatic	At Completion	10.55 Ft.
	Muskego, WI	Latitude:		24 Hr.	n/a
		Longitude:			

Surface Elev.:

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (%)	PID	MATERIAL DESCRIPTION	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	80	0.0	FILL, 2" Gravel Over Brown Sandy Clay, Moist, medium Stiff, Moderate Plasticity, 10% Coarse Sand-Pebbles	Fill				
				2	80	0.0	FILL, Dark Brown Silty Clay, Organic, Soft, Low Plasticity, Moist, 10% Medium Sand	Fill				
	5			3	100	0.0	FILL, Olive-Gray-Rust-Brown Sandy Silty Clay, Medium Stiff, Moderate Plasticity, Very Moist, 10% Coarse Sand-Pebbles	Fill				
				4	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Minor Black Staining, Medium Stiff, High Plasticity, Very Moist, 10% Subrounded Coarse Sand-Pebbles	CH				Sample 7.5'-10' Submitted for Laboratory Analysis
	10			5	100	0.0	SILTY CLAY, Brown with Rust/Gray Mottling, Medium Stiff, High Plasticity, Saturated, 10% Subrounded Coarse Sand-Pebbles	CH				
				6	100	0.0	SAND, Medium-Coarse Grained, Saturated from 12.5'-14' b.g.s.	SW				
	15						SILTY CLAY, Brown with Rust/Gray Mottling, Medium Stiff, High Plasticity, Saturated, 10% Subrounded Coarse Sand-Pebbles	CH				

End of Boring at 15' b.g.s

Temporary Monitoring Well TW-12 Installed to 14' b.g.s.; 10' Screen

Completion Depth:	15.0 ft
Date Boring Started:	3/30/10
Date Boring Completed:	3/30/10
Logged By:	MD
Drilling Contractor:	On-Site Environmental

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

Remarks:

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

APPENDIX E

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 SE ¼ NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): Not Observed

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
Cold Asphalt	Surface	0.3		
Bentonite Chips	0.3	15	0.28 ft³	

6. Comments

SP-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt Dahlem
Date Signed: 03/30/2010

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 SE ¼ NW or Gov't Lot #
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☒ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): 14
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 14
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?:
Depth to Water (feet): 13.55

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
Cold Asphalt	Surface	0.3		
Bentonite Chips	0.3	15	0.28 ft³	

6. Comments

SP-2 / TW-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt [signature]
Date Signed: 03/30/2010

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: SE ¼: NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?:
Depth to Water (feet): Not Observed

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
Cold Asphalt	Surface	0.3		
Bentonite Chips	0.3	15	0.28 ft³	

6. Comments

SP-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt [signature]
Date Signed: 03/30/2010

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 SE ¼ NW or Gov't Lot #
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): Not Observed

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
Cold Asphalt	Surface	0.3		
Bentonite Chips	0.3	15	0.28 ft³	

6. Comments

SP-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt [signature]
Date Signed: 03/30/2010

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: SE ¼: NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☒ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): 12.5
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 12.5
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?:
Depth to Water (feet): 4.7

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
Cold Asphalt	Surface	0.3		
Bentonite Chips	0.3	15	0.28 ft³	

6. Comments

SP-5 / TW-5

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt [signature]
Date Signed: 03/30/2010

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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☐ **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 SE ¼ NW or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?:
Depth to Water (feet): Not Observed

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
Bentonite Chips	Surface	15	0.28 ft³	

6. Comments

SP-6

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt [signature]
Date Signed: 03/30/2010

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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☐ **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: SE ¼: NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☒ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): 14.5
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 14.5

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?:
Depth to Water (feet): Not Observed

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
Bentonite Chips	Surface	15	0.28 ft³	

6. Comments

SP-7 / TW-7

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	DNR Use Only: Date Received	Noted By
Matt Dahlem - PSI	PG-1279	03/30/2010		

Street or Route	Telephone Number	Comments
W237 N2878 Woodgate Road, Suite 2	(262) 347-0898	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Pewaukee	WI	53072	Matt [signature]	03/30/2010

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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☐ **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: SE ¼: NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): Not Observed

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
Cold Asphalt	Surface	0.3		
Bentonite Chips	0.3	15	0.28 ft³	

6. Comments

SP-8

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt Dahlem
Date Signed: 03/30/2010

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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☐ **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: SE ¼: NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA
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

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	0.28 ft³	

6. Comments

SP-9

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt Dahlem
Date Signed: 03/30/2010

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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☐ **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: SE ¼: NW
or Gov't Lot #:
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): NA
Casing Diameter (in.): NA
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): NA

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

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	0.28 ft³	

6. Comments

SP - 10

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	DNR Use Only: Date Received	Noted By
Matt Dahlem - PSI	PG - 1279	03/30/2010		

Street or Route	Telephone Number	Comments
W237 N2878 Woodgate Road, Suite 2	(262) 347-0898	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Pewaukee	WI	53072	Matt Dahlem	03/30/2010

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 SE ¼ NW or Gov't Lot #
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☒ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): 13
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 13

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?
Depth to Water (feet): 4.45

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
Bentonite Chips	Surface	15	0.28 ft³	

6. Comments

SP-11 / TW-11

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG - 1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt Dahlem
Date Signed: 03/30/2010

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: SE ¼: NW
Section: 10
Township: 5 N
Range: 20 ☒ E ☐ W
or Gov't Lot #:
Well Street Address: 573 W16437 Janesville Road
Well City, Village or Town: Muskego
Well ZIP Code: 53150
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): 268181540
License/Permit/Monitoring #:
Original Well Owner: Muskego Firestone
Present Well Owner: Waukesha County Department of Parks and Land Use
Mailing Address of Present Owner: 515 W. Moreland Blvd., Room AC 260
City of Present Owner: Waukesha
State: WI
ZIP Code: 53188

3. Well / Drillhole / Borehole Information

☒ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2010
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.): 14
Casing Diameter (in.): 1
Lower Drillhole Diameter (in.): 2
Casing Depth (ft.): 14

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?:
Depth to Water (feet): 10.55

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
Bentonite Chips	Surface	15	0.28 ft³	

6. Comments

SP-12 / TW-12

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Matt Dahlem - PSI
License #: PG-1279
Date of Filling & Sealing (mm/dd/yyyy): 03/30/2010
Street or Route: W237 N2878 Woodgate Road, Suite 2
Telephone Number: (262) 347-0898
City: Pewaukee
State: WI
ZIP Code: 53072
Signature of Person Doing Work: Matt Dahlem
Date Signed: 03/30/2010

DNR Use Only
Date Received:
Noted By:
Comments:

APPENDIX F

NR 716 SITE INVESTIGATION: TASK 1 LABORATORY ANALYTICAL REPORTS

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

April 12, 2010

Matt Dahlem
PSI Incorporated
W237 N2878 Woodgate Road
Suite 2
Pewaukee, WI 53072

RE: Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Dear Matt Dahlem:
Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2010. 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

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Green Bay Certification IDs
1241 Bellevue Street Green Bay, WI 54302
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
North Dakota Certification #: R-150
North Carolina Certification #: 503
California Certification #: 09268CA
New York Certification #: 11887
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04168
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
New York Certification #: 11888

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4030171001	**SP-1**	Solid	03/30/10 08:30	04/03/10 08:25
4030171002	**SP-2**	Solid	03/30/10 09:00	04/03/10 08:25
4030171003	**SP-3**	Solid	03/30/10 09:30	04/03/10 08:25
4030171004	**SP-4**	Solid	03/30/10 10:00	04/03/10 08:25
4030171005	**SP-5**	Solid	03/30/10 10:30	04/03/10 08:25
4030171006	**SP-6**	Solid	03/30/10 11:00	04/03/10 08:25
4030171007	**SP-7**	Solid	03/30/10 11:30	04/03/10 08:25
4030171008	**SP-8**	Solid	03/30/10 12:00	04/03/10 08:25
4030171009	**SP-10**	Solid	03/30/10 13:00	04/03/10 08:25
4030171010	**SP-11**	Solid	03/30/10 13:30	04/03/10 08:25
4030171011	**SP-12**	Solid	03/30/10 14:00	04/03/10 08:25

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SAMPLE ANALYTE COUNT

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4030171001	**SP-1**	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171002	**SP-2**	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171003	**SP-3**	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171004	**SP-4**	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171005	**SP-5**	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171006	**SP-6**	EPA 8082	CAH	10	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171007	**SP-7**	EPA 8082	CAH	10	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171008	**SP-8**	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171009	**SP-10**	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4030171010	**SP-11**	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4030171011	**SP-12**	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	11	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-1 **Lab ID: 4030171001** Collected: 03/30/10 08:30 Received: 04/03/10 08:25 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	**<1.2**	mg/kg	2.3	1.2	1	04/07/10 08:03	04/09/10 11:37		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	100-41-4	W
Gasoline Range Organics	**<3.2**	mg/kg	3.2	3.2	1	04/06/10 09:00	04/07/10 08:50		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 08:50	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 08:50	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 08:50	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%-	80-120		1	04/06/10 09:00	04/07/10 08:50	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<3.0**	ug/kg	21.1	3.0	1	04/06/10 11:36	04/06/10 18:15	83-32-9	
Acenaphthylene	**<3.4**	ug/kg	21.1	3.4	1	04/06/10 11:36	04/06/10 18:15	208-96-8	
Anthracene	**<4.9**	ug/kg	21.1	4.9	1	04/06/10 11:36	04/06/10 18:15	120-12-7	
Benzo(a)anthracene	**<3.0**	ug/kg	21.1	3.0	1	04/06/10 11:36	04/06/10 18:15	56-55-3	
Benzo(a)pyrene	**<3.5**	ug/kg	21.1	3.5	1	04/06/10 11:36	04/06/10 18:15	50-32-8	
Benzo(b)fluoranthene	**<3.7**	ug/kg	21.1	3.7	1	04/06/10 11:36	04/06/10 18:15	205-99-2	
Benzo(g,h,i)perylene	**<2.8**	ug/kg	21.1	2.8	1	04/06/10 11:36	04/06/10 18:15	191-24-2	
Benzo(k)fluoranthene	**<3.9**	ug/kg	21.1	3.9	1	04/06/10 11:36	04/06/10 18:15	207-08-9	
Chrysene	**<3.8**	ug/kg	21.1	3.8	1	04/06/10 11:36	04/06/10 18:15	218-01-9	
Dibenz(a,h)anthracene	**<5.7**	ug/kg	21.1	5.7	1	04/06/10 11:36	04/06/10 18:15	53-70-3	
Fluoranthene	**<10.6**	ug/kg	21.1	10.6	1	04/06/10 11:36	04/06/10 18:15	206-44-0	
Fluorene	**<5.3**	ug/kg	21.1	5.3	1	04/06/10 11:36	04/06/10 18:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<3.0**	ug/kg	21.1	3.0	1	04/06/10 11:36	04/06/10 18:15	193-39-5	
1-Methylnaphthalene	**<3.2**	ug/kg	21.1	3.2	1	04/06/10 11:36	04/06/10 18:15	90-12-0	
2-Methylnaphthalene	**<3.2**	ug/kg	21.1	3.2	1	04/06/10 11:36	04/06/10 18:15	91-57-6	
Naphthalene	**<3.7**	ug/kg	21.1	3.7	1	04/06/10 11:36	04/06/10 18:15	91-20-3	
Phenanthrene	**<4.6**	ug/kg	21.1	4.6	1	04/06/10 11:36	04/06/10 18:15	85-01-8	
Pyrene	**<3.9**	ug/kg	21.1	3.9	1	04/06/10 11:36	04/06/10 18:15	129-00-0	
2-Fluorobiphenyl (S)	68	%-	38-130		1	04/06/10 11:36	04/06/10 18:15	321-60-8	
Terphenyl-d14 (S)	77	%-	41-130		1	04/06/10 11:36	04/06/10 18:15	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.1**	%	0.10	0.10	1		04/05/10 10:19		

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

ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-2 **Lab ID: 4030171002** Collected: 03/30/10 09:00 Received: 04/03/10 08:25 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	**153**	mg/kg	4.3	2.1	2	04/07/10 08:03	04/09/10 11:46		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<200**	ug/kg	480	200	8	04/06/10 09:00	04/07/10 14:02	71-43-2	W
Ethylbenzene	**8490**	ug/kg	560	234	8	04/06/10 09:00	04/07/10 14:02	100-41-4	
Gasoline Range Organics	**662**	mg/kg	23.4	23.4	8	04/06/10 09:00	04/07/10 14:02		
Methyl-tert-butyl ether	**<200**	ug/kg	480	200	8	04/06/10 09:00	04/07/10 14:02	1634-04-4	W
Toluene	**5320**	ug/kg	560	234	8	04/06/10 09:00	04/07/10 14:02	108-88-3	
1,2,4-Trimethylbenzene	**19200**	ug/kg	560	234	8	04/06/10 09:00	04/07/10 14:02	95-63-6	
1,3,5-Trimethylbenzene	**10200**	ug/kg	560	234	8	04/06/10 09:00	04/07/10 14:02	108-67-8	
Xylene (Total)	**10400**	ug/kg	1680	701	8	04/06/10 09:00	04/07/10 14:02	1330-20-7	
m&p-Xylene	**6740**	ug/kg	1120	467	8	04/06/10 09:00	04/07/10 14:02	1330-20-7	
o-Xylene	**3660**	ug/kg	560	234	8	04/06/10 09:00	04/07/10 14:02	95-47-6	
a,a,a-Trifluorotoluene (S)	110	%-	80-120		8	04/06/10 09:00	04/07/10 14:02	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.9**	ug/kg	77.8	10.9	4	04/06/10 11:36	04/07/10 10:30	83-32-9	
Acenaphthylene	**<12.4**	ug/kg	77.8	12.4	4	04/06/10 11:36	04/07/10 10:30	208-96-8	
Anthracene	**<18.1**	ug/kg	77.8	18.1	4	04/06/10 11:36	04/07/10 10:30	120-12-7	
Benzo(a)anthracene	**<11.1**	ug/kg	77.8	11.1	4	04/06/10 11:36	04/07/10 10:30	56-55-3	
Benzo(a)pyrene	**<12.7**	ug/kg	77.8	12.7	4	04/06/10 11:36	04/07/10 10:30	50-32-8	
Benzo(b)fluoranthene	**<13.5**	ug/kg	77.8	13.5	4	04/06/10 11:36	04/07/10 10:30	205-99-2	
Benzo(g,h,i)perylene	**<10.3**	ug/kg	77.8	10.3	4	04/06/10 11:36	04/07/10 10:30	191-24-2	
Benzo(k)fluoranthene	**<14.5**	ug/kg	77.8	14.5	4	04/06/10 11:36	04/07/10 10:30	207-08-9	
Chrysene	**<14.1**	ug/kg	77.8	14.1	4	04/06/10 11:36	04/07/10 10:30	218-01-9	
Dibenz(a,h)anthracene	**<21.2**	ug/kg	77.8	21.2	4	04/06/10 11:36	04/07/10 10:30	53-70-3	
Fluoranthene	**<38.9**	ug/kg	77.8	38.9	4	04/06/10 11:36	04/07/10 10:30	206-44-0	
Fluorene	**<19.4**	ug/kg	77.8	19.4	4	04/06/10 11:36	04/07/10 10:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**<11.1**	ug/kg	77.8	11.1	4	04/06/10 11:36	04/07/10 10:30	193-39-5	
1-Methylnaphthalene	**375**	ug/kg	77.8	11.9	4	04/06/10 11:36	04/07/10 10:30	90-12-0	
2-Methylnaphthalene	**876**	ug/kg	77.8	11.9	4	04/06/10 11:36	04/07/10 10:30	91-57-6	
Naphthalene	**1180**	ug/kg	77.8	13.6	4	04/06/10 11:36	04/07/10 10:30	91-20-3	
Phenanthrene	**<17.1**	ug/kg	77.8	17.1	4	04/06/10 11:36	04/07/10 10:30	85-01-8	
Pyrene	**<14.2**	ug/kg	77.8	14.2	4	04/06/10 11:36	04/07/10 10:30	129-00-0	
2-Fluorobiphenyl (S)	45	%-	38-130		4	04/06/10 11:36	04/07/10 10:30	321-60-8	
Terphenyl-d14 (S)	50	%-	41-130		4	04/06/10 11:36	04/07/10 10:30	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		04/05/10 10:19		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-3 **Lab ID: 4030171003** Collected: 03/30/10 09:30 Received: 04/03/10 08:25 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	**<1.1**	mg/kg	2.2	1.1	1	04/07/10 08:03	04/09/10 11:55		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	100-41-4	W
Gasoline Range Organics	**<3.0**	mg/kg	3.0	3.0	1	04/06/10 09:00	04/07/10 09:15		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 09:15	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 09:15	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:15	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%-	80-120		1	04/06/10 09:00	04/07/10 09:15	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.8**	ug/kg	20.1	2.8	1	04/06/10 11:36	04/06/10 18:49	83-32-9	
Acenaphthylene	**<3.2**	ug/kg	20.1	3.2	1	04/06/10 11:36	04/06/10 18:49	208-96-8	
Anthracene	**4.7J**	ug/kg	20.1	4.7	1	04/06/10 11:36	04/06/10 18:49	120-12-7	
Benzo(a)anthracene	**12.2J**	ug/kg	20.1	2.9	1	04/06/10 11:36	04/06/10 18:49	56-55-3	
Benzo(a)pyrene	**12.0J**	ug/kg	20.1	3.3	1	04/06/10 11:36	04/06/10 18:49	50-32-8	
Benzo(b)fluoranthene	**11.3J**	ug/kg	20.1	3.5	1	04/06/10 11:36	04/06/10 18:49	205-99-2	
Benzo(g,h,i)perylene	**7.9J**	ug/kg	20.1	2.7	1	04/06/10 11:36	04/06/10 18:49	191-24-2	
Benzo(k)fluoranthene	**14.6J**	ug/kg	20.1	3.7	1	04/06/10 11:36	04/06/10 18:49	207-08-9	
Chrysene	**20.4**	ug/kg	20.1	3.6	1	04/06/10 11:36	04/06/10 18:49	218-01-9	
Dibenz(a,h)anthracene	**<5.5**	ug/kg	20.1	5.5	1	04/06/10 11:36	04/06/10 18:49	53-70-3	
Fluoranthene	**30.9**	ug/kg	20.1	10.0	1	04/06/10 11:36	04/06/10 18:49	206-44-0	
Fluorene	**<5.0**	ug/kg	20.1	5.0	1	04/06/10 11:36	04/06/10 18:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**6.1J**	ug/kg	20.1	2.9	1	04/06/10 11:36	04/06/10 18:49	193-39-5	
1-Methylnaphthalene	**<3.1**	ug/kg	20.1	3.1	1	04/06/10 11:36	04/06/10 18:49	90-12-0	
2-Methylnaphthalene	**<3.1**	ug/kg	20.1	3.1	1	04/06/10 11:36	04/06/10 18:49	91-57-6	
Naphthalene	**4.3J**	ug/kg	20.1	3.5	1	04/06/10 11:36	04/06/10 18:49	91-20-3	
Phenanthrene	**17.1J**	ug/kg	20.1	4.4	1	04/06/10 11:36	04/06/10 18:49	85-01-8	
Pyrene	**32.1**	ug/kg	20.1	3.7	1	04/06/10 11:36	04/06/10 18:49	129-00-0	
2-Fluorobiphenyl (S)	71	%-	38-130		1	04/06/10 11:36	04/06/10 18:49	321-60-8	
Terphenyl-d14 (S)	83	%-	41-130		1	04/06/10 11:36	04/06/10 18:49	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.0**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-4 **Lab ID: 4030171004** Collected: 03/30/10 10:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	11096-82-5	
PCB, Total	**<29.4**	ug/kg	125	29.4	1	04/06/10 10:16	04/09/10 15:30	1336-36-3	
Tetrachloro-m-xylene (S)	74	%-	50-137		1	04/06/10 10:16	04/09/10 15:30	877-09-8	
Decachlorobiphenyl (S)	79	%-	56-130		1	04/06/10 10:16	04/09/10 15:30	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**45.5**	mg/kg	1.9	0.93	1	04/07/10 08:03	04/09/10 12:04		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	100-41-4	W
Gasoline Range Organics	**<3.1**	mg/kg	3.1	3.1	1	04/06/10 09:00	04/07/10 09:41		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 09:41	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 09:41	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 09:41	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%-	80-120		1	04/06/10 09:00	04/07/10 09:41	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.9**	ug/kg	20.8	2.9	1	04/06/10 11:36	04/06/10 19:07	83-32-9	
Acenaphthylene	**<3.3**	ug/kg	20.8	3.3	1	04/06/10 11:36	04/06/10 19:07	208-96-8	
Anthracene	**<4.8**	ug/kg	20.8	4.8	1	04/06/10 11:36	04/06/10 19:07	120-12-7	
Benzo(a)anthracene	**4.8J**	ug/kg	20.8	2.9	1	04/06/10 11:36	04/06/10 19:07	56-55-3	
Benzo(a)pyrene	**6.0J**	ug/kg	20.8	3.4	1	04/06/10 11:36	04/06/10 19:07	50-32-8	
Benzo(b)fluoranthene	**9.6J**	ug/kg	20.8	3.6	1	04/06/10 11:36	04/06/10 19:07	205-99-2	
Benzo(g,h,i)perylene	**7.9J**	ug/kg	20.8	2.7	1	04/06/10 11:36	04/06/10 19:07	191-24-2	
Benzo(k)fluoranthene	**11.6J**	ug/kg	20.8	3.9	1	04/06/10 11:36	04/06/10 19:07	207-08-9	
Chrysene	**14.2J**	ug/kg	20.8	3.8	1	04/06/10 11:36	04/06/10 19:07	218-01-9	
Dibenz(a,h)anthracene	**<5.6**	ug/kg	20.8	5.6	1	04/06/10 11:36	04/06/10 19:07	53-70-3	
Fluoranthene	**12.2J**	ug/kg	20.8	10.4	1	04/06/10 11:36	04/06/10 19:07	206-44-0	
Fluorene	**<5.2**	ug/kg	20.8	5.2	1	04/06/10 11:36	04/06/10 19:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**6.5J**	ug/kg	20.8	2.9	1	04/06/10 11:36	04/06/10 19:07	193-39-5	
1-Methylnaphthalene	**<3.2**	ug/kg	20.8	3.2	1	04/06/10 11:36	04/06/10 19:07	90-12-0	
2-Methylnaphthalene	**<3.2**	ug/kg	20.8	3.2	1	04/06/10 11:36	04/06/10 19:07	91-57-6	
Naphthalene	**<3.6**	ug/kg	20.8	3.6	1	04/06/10 11:36	04/06/10 19:07	91-20-3	
Phenanthrene	**<4.6**	ug/kg	20.8	4.6	1	04/06/10 11:36	04/06/10 19:07	85-01-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-4 **Lab ID: 4030171004** Collected: 03/30/10 10:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

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 3546								
Pyrene	**12.3J**	ug/kg	20.8	3.8	1	04/06/10 11:36	04/06/10 19:07	129-00-0	
2-Fluorobiphenyl (S)	49	%-	38-130		1	04/06/10 11:36	04/06/10 19:07	321-60-8	
Terphenyl-d14 (S)	52	%-	41-130		1	04/06/10 11:36	04/06/10 19:07	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.7**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-5 **Lab ID: 4030171005** Collected: 03/30/10 10:30 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	11096-82-5	
PCB, Total	**<27.3**	ug/kg	116	27.3	1	04/06/10 10:16	04/09/10 15:48	1336-36-3	
Tetrachloro-m-xylene (S)	73	%-	50-137		1	04/06/10 10:16	04/09/10 15:48	877-09-8	
Decachlorobiphenyl (S)	79	%-	56-130		1	04/06/10 10:16	04/09/10 15:48	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**2.0**	mg/kg	1.9	0.94	1	04/07/10 08:03	04/09/10 12:13		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:07	71-43-2	W
Ethylbenzene	**44.2J**	ug/kg	69.4	28.9	1	04/06/10 09:00	04/07/10 10:07	100-41-4	
Gasoline Range Organics	**<2.9**	mg/kg	2.9	2.9	1	04/06/10 09:00	04/07/10 10:07		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:07	1634-04-4	W
Toluene	**43.9J**	ug/kg	69.4	28.9	1	04/06/10 09:00	04/07/10 10:07	108-88-3	
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:07	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:07	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 10:07	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 10:07	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:07	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%-	80-120		1	04/06/10 09:00	04/07/10 10:07	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.7**	ug/kg	19.3	2.7	1	04/09/10 10:30	04/09/10 12:02	83-32-9	
Acenaphthylene	**<3.1**	ug/kg	19.3	3.1	1	04/09/10 10:30	04/09/10 12:02	208-96-8	
Anthracene	**<4.5**	ug/kg	19.3	4.5	1	04/09/10 10:30	04/09/10 12:02	120-12-7	
Benzo(a)anthracene	**<2.7**	ug/kg	19.3	2.7	1	04/09/10 10:30	04/09/10 12:02	56-55-3	
Benzo(a)pyrene	**<3.2**	ug/kg	19.3	3.2	1	04/09/10 10:30	04/09/10 12:02	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	19.3	3.3	1	04/09/10 10:30	04/09/10 12:02	205-99-2	
Benzo(g,h,i)perylene	**<2.5**	ug/kg	19.3	2.5	1	04/09/10 10:30	04/09/10 12:02	191-24-2	
Benzo(k)fluoranthene	**<3.6**	ug/kg	19.3	3.6	1	04/09/10 10:30	04/09/10 12:02	207-08-9	
Chrysene	**<3.5**	ug/kg	19.3	3.5	1	04/09/10 10:30	04/09/10 12:02	218-01-9	
Dibenz(a,h)anthracene	**<5.2**	ug/kg	19.3	5.2	1	04/09/10 10:30	04/09/10 12:02	53-70-3	
Fluoranthene	**<9.6**	ug/kg	19.3	9.6	1	04/09/10 10:30	04/09/10 12:02	206-44-0	
Fluorene	**<4.8**	ug/kg	19.3	4.8	1	04/09/10 10:30	04/09/10 12:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.7**	ug/kg	19.3	2.7	1	04/09/10 10:30	04/09/10 12:02	193-39-5	
1-Methylnaphthalene	**<2.9**	ug/kg	19.3	2.9	1	04/09/10 10:30	04/09/10 12:02	90-12-0	
2-Methylnaphthalene	**<2.9**	ug/kg	19.3	2.9	1	04/09/10 10:30	04/09/10 12:02	91-57-6	
Naphthalene	**3.5J**	ug/kg	19.3	3.4	1	04/09/10 10:30	04/09/10 12:02	91-20-3	
Phenanthrene	**<4.2**	ug/kg	19.3	4.2	1	04/09/10 10:30	04/09/10 12:02	85-01-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-5 **Lab ID: 4030171005** Collected: 03/30/10 10:30 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

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 3546								
Pyrene	**<3.5**	ug/kg	19.3	3.5	1	04/09/10 10:30	04/09/10 12:02	129-00-0	
2-Fluorobiphenyl (S)	80	%-	38-130		1	04/09/10 10:30	04/09/10 12:02	321-60-8	
Terphenyl-d14 (S)	91	%-	41-130		1	04/09/10 10:30	04/09/10 12:02	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.5**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-6 **Lab ID: 4030171006** Collected: 03/30/10 11:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	11096-82-5	
PCB, Total	**<26.9**	ug/kg	114	26.9	1	04/06/10 10:16	04/09/10 16:05	1336-36-3	
Tetrachloro-m-xylene (S)	73	%-	50-137		1	04/06/10 10:16	04/09/10 16:05	877-09-8	
Decachlorobiphenyl (S)	78	%-	56-130		1	04/06/10 10:16	04/09/10 16:05	2051-24-3	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.7**	ug/kg	19.0	2.7	1	04/09/10 10:30	04/09/10 13:46	83-32-9	
Acenaphthylene	**<3.0**	ug/kg	19.0	3.0	1	04/09/10 10:30	04/09/10 13:46	208-96-8	
Anthracene	**<4.4**	ug/kg	19.0	4.4	1	04/09/10 10:30	04/09/10 13:46	120-12-7	
Benzo(a)anthracene	**<2.7**	ug/kg	19.0	2.7	1	04/09/10 10:30	04/09/10 13:46	56-55-3	
Benzo(a)pyrene	**<3.1**	ug/kg	19.0	3.1	1	04/09/10 10:30	04/09/10 13:46	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	19.0	3.3	1	04/09/10 10:30	04/09/10 13:46	205-99-2	
Benzo(g,h,i)perylene	**3.5J**	ug/kg	19.0	2.5	1	04/09/10 10:30	04/09/10 13:46	191-24-2	
Benzo(k)fluoranthene	**<3.5**	ug/kg	19.0	3.5	1	04/09/10 10:30	04/09/10 13:46	207-08-9	
Chrysene	**5.1J**	ug/kg	19.0	3.4	1	04/09/10 10:30	04/09/10 13:46	218-01-9	
Dibenz(a,h)anthracene	**<5.2**	ug/kg	19.0	5.2	1	04/09/10 10:30	04/09/10 13:46	53-70-3	
Fluoranthene	**<9.5**	ug/kg	19.0	9.5	1	04/09/10 10:30	04/09/10 13:46	206-44-0	
Fluorene	**<4.7**	ug/kg	19.0	4.7	1	04/09/10 10:30	04/09/10 13:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.7**	ug/kg	19.0	2.7	1	04/09/10 10:30	04/09/10 13:46	193-39-5	
1-Methylnaphthalene	**<2.9**	ug/kg	19.0	2.9	1	04/09/10 10:30	04/09/10 13:46	90-12-0	
2-Methylnaphthalene	**<2.9**	ug/kg	19.0	2.9	1	04/09/10 10:30	04/09/10 13:46	91-57-6	
Naphthalene	**<3.3**	ug/kg	19.0	3.3	1	04/09/10 10:30	04/09/10 13:46	91-20-3	
Phenanthrene	**<4.2**	ug/kg	19.0	4.2	1	04/09/10 10:30	04/09/10 13:46	85-01-8	
Pyrene	**<3.5**	ug/kg	19.0	3.5	1	04/09/10 10:30	04/09/10 13:46	129-00-0	
2-Fluorobiphenyl (S)	81	%-	38-130		1	04/09/10 10:30	04/09/10 13:46	321-60-8	
Terphenyl-d14 (S)	82	%-	41-130		1	04/09/10 10:30	04/09/10 13:46	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.1**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-7 **Lab ID: 4030171007** Collected: 03/30/10 11:30 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	11096-82-5	
PCB, Total	**<30.2**	ug/kg	128	30.2	1	04/06/10 10:16	04/09/10 16:23	1336-36-3	
Tetrachloro-m-xylene (S)	72	%-	50-137		1	04/06/10 10:16	04/09/10 16:23	877-09-8	
Decachlorobiphenyl (S)	73	%-	56-130		1	04/06/10 10:16	04/09/10 16:23	2051-24-3	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<3.0**	ug/kg	21.3	3.0	1	04/09/10 10:30	04/09/10 14:04	83-32-9	
Acenaphthylene	**<3.4**	ug/kg	21.3	3.4	1	04/09/10 10:30	04/09/10 14:04	208-96-8	
Anthracene	**<5.0**	ug/kg	21.3	5.0	1	04/09/10 10:30	04/09/10 14:04	120-12-7	
Benzo(a)anthracene	**<3.0**	ug/kg	21.3	3.0	1	04/09/10 10:30	04/09/10 14:04	56-55-3	
Benzo(a)pyrene	**<3.5**	ug/kg	21.3	3.5	1	04/09/10 10:30	04/09/10 14:04	50-32-8	
Benzo(b)fluoranthene	**<3.7**	ug/kg	21.3	3.7	1	04/09/10 10:30	04/09/10 14:04	205-99-2	
Benzo(g,h,i)perylene	**<2.8**	ug/kg	21.3	2.8	1	04/09/10 10:30	04/09/10 14:04	191-24-2	
Benzo(k)fluoranthene	**<4.0**	ug/kg	21.3	4.0	1	04/09/10 10:30	04/09/10 14:04	207-08-9	
Chrysene	**<3.9**	ug/kg	21.3	3.9	1	04/09/10 10:30	04/09/10 14:04	218-01-9	
Dibenz(a,h)anthracene	**<5.8**	ug/kg	21.3	5.8	1	04/09/10 10:30	04/09/10 14:04	53-70-3	
Fluoranthene	**<10.7**	ug/kg	21.3	10.7	1	04/09/10 10:30	04/09/10 14:04	206-44-0	
Fluorene	**<5.3**	ug/kg	21.3	5.3	1	04/09/10 10:30	04/09/10 14:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**<3.0**	ug/kg	21.3	3.0	1	04/09/10 10:30	04/09/10 14:04	193-39-5	
1-Methylnaphthalene	**<3.3**	ug/kg	21.3	3.3	1	04/09/10 10:30	04/09/10 14:04	90-12-0	
2-Methylnaphthalene	**<3.3**	ug/kg	21.3	3.3	1	04/09/10 10:30	04/09/10 14:04	91-57-6	
Naphthalene	**<3.7**	ug/kg	21.3	3.7	1	04/09/10 10:30	04/09/10 14:04	91-20-3	
Phenanthrene	**<4.7**	ug/kg	21.3	4.7	1	04/09/10 10:30	04/09/10 14:04	85-01-8	
Pyrene	**<3.9**	ug/kg	21.3	3.9	1	04/09/10 10:30	04/09/10 14:04	129-00-0	
2-Fluorobiphenyl (S)	84	%-	38-130		1	04/09/10 10:30	04/09/10 14:04	321-60-8	
Terphenyl-d14 (S)	82	%-	41-130		1	04/09/10 10:30	04/09/10 14:04	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.8**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-8 **Lab ID: 4030171008** Collected: 03/30/10 12:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	11096-82-5	
PCB, Total	**<29.7**	ug/kg	126	29.7	1	04/06/10 10:16	04/09/10 16:41	1336-36-3	
Tetrachloro-m-xylene (S)	67	%-	50-137		1	04/06/10 10:16	04/09/10 16:41	877-09-8	
Decachlorobiphenyl (S)	59	%-	56-130		1	04/06/10 10:16	04/09/10 16:41	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**1010**	mg/kg	43.5	21.6	20	04/07/10 08:03	04/09/10 12:22		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:33	71-43-2	W
Ethylbenzene	**75.8**	ug/kg	75.3	31.4	1	04/06/10 09:00	04/07/10 10:33	100-41-4	
Gasoline Range Organics	**<3.1**	mg/kg	3.1	3.1	1	04/06/10 09:00	04/07/10 10:33		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:33	1634-04-4	W
Toluene	**49.6J**	ug/kg	75.3	31.4	1	04/06/10 09:00	04/07/10 10:33	108-88-3	
1,2,4-Trimethylbenzene	**127**	ug/kg	75.3	31.4	1	04/06/10 09:00	04/07/10 10:33	95-63-6	
1,3,5-Trimethylbenzene	**33.1J**	ug/kg	75.3	31.4	1	04/06/10 09:00	04/07/10 10:33	108-67-8	
Xylene (Total)	**154J**	ug/kg	226	94.1	1	04/06/10 09:00	04/07/10 10:33	1330-20-7	
m&p-Xylene	**75.8J**	ug/kg	151	62.8	1	04/06/10 09:00	04/07/10 10:33	1330-20-7	
o-Xylene	**77.9**	ug/kg	75.3	31.4	1	04/06/10 09:00	04/07/10 10:33	95-47-6	
a,a,a-Trifluorotoluene (S)	103	%-	80-120		1	04/06/10 09:00	04/07/10 10:33	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.9**	ug/kg	20.9	2.9	1	04/09/10 10:30	04/09/10 14:21	83-32-9	
Acenaphthylene	**<3.3**	ug/kg	20.9	3.3	1	04/09/10 10:30	04/09/10 14:21	208-96-8	
Anthracene	**<4.9**	ug/kg	20.9	4.9	1	04/09/10 10:30	04/09/10 14:21	120-12-7	
Benzo(a)anthracene	**9.6J**	ug/kg	20.9	3.0	1	04/09/10 10:30	04/09/10 14:21	56-55-3	
Benzo(a)pyrene	**7.8J**	ug/kg	20.9	3.4	1	04/09/10 10:30	04/09/10 14:21	50-32-8	
Benzo(b)fluoranthene	**12.6J**	ug/kg	20.9	3.6	1	04/09/10 10:30	04/09/10 14:21	205-99-2	
Benzo(g,h,i)perylene	**8.8J**	ug/kg	20.9	2.8	1	04/09/10 10:30	04/09/10 14:21	191-24-2	
Benzo(k)fluoranthene	**16.0J**	ug/kg	20.9	3.9	1	04/09/10 10:30	04/09/10 14:21	207-08-9	
Chrysene	**25.7**	ug/kg	20.9	3.8	1	04/09/10 10:30	04/09/10 14:21	218-01-9	
Dibenz(a,h)anthracene	**<5.7**	ug/kg	20.9	5.7	1	04/09/10 10:30	04/09/10 14:21	53-70-3	
Fluoranthene	**19.1J**	ug/kg	20.9	10.5	1	04/09/10 10:30	04/09/10 14:21	206-44-0	
Fluorene	**<5.2**	ug/kg	20.9	5.2	1	04/09/10 10:30	04/09/10 14:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**6.2J**	ug/kg	20.9	3.0	1	04/09/10 10:30	04/09/10 14:21	193-39-5	
1-Methylnaphthalene	**10.1J**	ug/kg	20.9	3.2	1	04/09/10 10:30	04/09/10 14:21	90-12-0	
2-Methylnaphthalene	**10.2J**	ug/kg	20.9	3.2	1	04/09/10 10:30	04/09/10 14:21	91-57-6	
Naphthalene	**16.2J**	ug/kg	20.9	3.7	1	04/09/10 10:30	04/09/10 14:21	91-20-3	
Phenanthrene	**15.1J**	ug/kg	20.9	4.6	1	04/09/10 10:30	04/09/10 14:21	85-01-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-8 **Lab ID: 4030171008** Collected: 03/30/10 12:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

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 3546								
Pyrene	**30.8**	ug/kg	20.9	3.8	1	04/09/10 10:30	04/09/10 14:21	129-00-0	
2-Fluorobiphenyl (S)	88	%-	38-130		1	04/09/10 10:30	04/09/10 14:21	321-60-8	
Terphenyl-d14 (S)	83	%-	41-130		1	04/09/10 10:30	04/09/10 14:21	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.3**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-10 **Lab ID: 4030171009** Collected: 03/30/10 13:00 Received: 04/03/10 08:25 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	**<0.90**	mg/kg	1.8	0.90	1	04/07/10 08:03	04/09/10 12:31		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	100-41-4	W
Gasoline Range Organics	**<2.9**	mg/kg	2.9	2.9	1	04/06/10 09:00	04/07/10 10:58		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 10:58	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 10:58	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 10:58	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%-	80-120		1	04/06/10 09:00	04/07/10 10:58	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.7**	ug/kg	19.2	2.7	1	04/09/10 10:30	04/09/10 14:38	83-32-9	
Acenaphthylene	**<3.1**	ug/kg	19.2	3.1	1	04/09/10 10:30	04/09/10 14:38	208-96-8	
Anthracene	**<4.5**	ug/kg	19.2	4.5	1	04/09/10 10:30	04/09/10 14:38	120-12-7	
Benzo(a)anthracene	**<2.7**	ug/kg	19.2	2.7	1	04/09/10 10:30	04/09/10 14:38	56-55-3	
Benzo(a)pyrene	**<3.1**	ug/kg	19.2	3.1	1	04/09/10 10:30	04/09/10 14:38	50-32-8	
Benzo(b)fluoranthene	**<3.3**	ug/kg	19.2	3.3	1	04/09/10 10:30	04/09/10 14:38	205-99-2	
Benzo(g,h,i)perylene	**<2.5**	ug/kg	19.2	2.5	1	04/09/10 10:30	04/09/10 14:38	191-24-2	
Benzo(k)fluoranthene	**<3.6**	ug/kg	19.2	3.6	1	04/09/10 10:30	04/09/10 14:38	207-08-9	
Chrysene	**<3.5**	ug/kg	19.2	3.5	1	04/09/10 10:30	04/09/10 14:38	218-01-9	
Dibenz(a,h)anthracene	**<5.2**	ug/kg	19.2	5.2	1	04/09/10 10:30	04/09/10 14:38	53-70-3	
Fluoranthene	**<9.6**	ug/kg	19.2	9.6	1	04/09/10 10:30	04/09/10 14:38	206-44-0	
Fluorene	**<4.8**	ug/kg	19.2	4.8	1	04/09/10 10:30	04/09/10 14:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.7**	ug/kg	19.2	2.7	1	04/09/10 10:30	04/09/10 14:38	193-39-5	
1-Methylnaphthalene	**<2.9**	ug/kg	19.2	2.9	1	04/09/10 10:30	04/09/10 14:38	90-12-0	
2-Methylnaphthalene	**<2.9**	ug/kg	19.2	2.9	1	04/09/10 10:30	04/09/10 14:38	91-57-6	
Naphthalene	**<3.4**	ug/kg	19.2	3.4	1	04/09/10 10:30	04/09/10 14:38	91-20-3	
Phenanthrene	**<4.2**	ug/kg	19.2	4.2	1	04/09/10 10:30	04/09/10 14:38	85-01-8	
Pyrene	**<3.5**	ug/kg	19.2	3.5	1	04/09/10 10:30	04/09/10 14:38	129-00-0	
2-Fluorobiphenyl (S)	83	%-	38-130		1	04/09/10 10:30	04/09/10 14:38	321-60-8	
Terphenyl-d14 (S)	80	%-	41-130		1	04/09/10 10:30	04/09/10 14:38	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.2**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-11 **Lab ID: 4030171010** Collected: 03/30/10 13:30 Received: 04/03/10 08:25 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	**<0.99**	mg/kg	2.0	0.99	1	04/07/10 08:03	04/09/10 12:40		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	100-41-4	W
Gasoline Range Organics	**<3.1**	mg/kg	3.1	3.1	1	04/06/10 09:00	04/07/10 11:53		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 11:53	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 11:53	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 11:53	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%-	80-120		1	04/06/10 09:00	04/07/10 11:53	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.9**	ug/kg	20.6	2.9	1	04/09/10 10:30	04/09/10 14:55	83-32-9	
Acenaphthylene	**<3.3**	ug/kg	20.6	3.3	1	04/09/10 10:30	04/09/10 14:55	208-96-8	
Anthracene	**<4.8**	ug/kg	20.6	4.8	1	04/09/10 10:30	04/09/10 14:55	120-12-7	
Benzo(a)anthracene	**<2.9**	ug/kg	20.6	2.9	1	04/09/10 10:30	04/09/10 14:55	56-55-3	
Benzo(a)pyrene	**<3.4**	ug/kg	20.6	3.4	1	04/09/10 10:30	04/09/10 14:55	50-32-8	
Benzo(b)fluoranthene	**<3.6**	ug/kg	20.6	3.6	1	04/09/10 10:30	04/09/10 14:55	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	20.6	2.7	1	04/09/10 10:30	04/09/10 14:55	191-24-2	
Benzo(k)fluoranthene	**<3.8**	ug/kg	20.6	3.8	1	04/09/10 10:30	04/09/10 14:55	207-08-9	
Chrysene	**<3.7**	ug/kg	20.6	3.7	1	04/09/10 10:30	04/09/10 14:55	218-01-9	
Dibenz(a,h)anthracene	**<5.6**	ug/kg	20.6	5.6	1	04/09/10 10:30	04/09/10 14:55	53-70-3	
Fluoranthene	**<10.3**	ug/kg	20.6	10.3	1	04/09/10 10:30	04/09/10 14:55	206-44-0	
Fluorene	**<5.1**	ug/kg	20.6	5.1	1	04/09/10 10:30	04/09/10 14:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.9**	ug/kg	20.6	2.9	1	04/09/10 10:30	04/09/10 14:55	193-39-5	
1-Methylnaphthalene	**<3.1**	ug/kg	20.6	3.1	1	04/09/10 10:30	04/09/10 14:55	90-12-0	
2-Methylnaphthalene	**<3.1**	ug/kg	20.6	3.1	1	04/09/10 10:30	04/09/10 14:55	91-57-6	
Naphthalene	**<3.6**	ug/kg	20.6	3.6	1	04/09/10 10:30	04/09/10 14:55	91-20-3	
Phenanthrene	**<4.5**	ug/kg	20.6	4.5	1	04/09/10 10:30	04/09/10 14:55	85-01-8	
Pyrene	**<3.8**	ug/kg	20.6	3.8	1	04/09/10 10:30	04/09/10 14:55	129-00-0	
2-Fluorobiphenyl (S)	80	%-	38-130		1	04/09/10 10:30	04/09/10 14:55	321-60-8	
Terphenyl-d14 (S)	73	%-	41-130		1	04/09/10 10:30	04/09/10 14:55	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		04/05/10 10:20		

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-12 **Lab ID: 4030171011** Collected: 03/30/10 14:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	11096-82-5	
PCB, Total	**<28.7**	ug/kg	121	28.7	1	04/06/10 10:16	04/09/10 16:58	1336-36-3	
Tetrachloro-m-xylene (S)	61	%-	50-137		1	04/06/10 10:16	04/09/10 16:58	877-09-8	
Decachlorobiphenyl (S)	60	%-	56-130		1	04/06/10 10:16	04/09/10 16:58	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<1.1**	mg/kg	2.2	1.1	1	04/07/10 08:03	04/09/10 12:49		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	100-41-4	W
Gasoline Range Organics	**<3.0**	mg/kg	3.0	3.0	1	04/06/10 09:00	04/07/10 12:19		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	1634-04-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	04/06/10 09:00	04/07/10 12:19	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	04/06/10 09:00	04/07/10 12:19	1330-20-7	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	04/06/10 09:00	04/07/10 12:19	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%-	80-120		1	04/06/10 09:00	04/07/10 12:19	98-08-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<2.8**	ug/kg	20.2	2.8	1	04/09/10 10:30	04/09/10 15:12	83-32-9	
Acenaphthylene	**<3.2**	ug/kg	20.2	3.2	1	04/09/10 10:30	04/09/10 15:12	208-96-8	
Anthracene	**<4.7**	ug/kg	20.2	4.7	1	04/09/10 10:30	04/09/10 15:12	120-12-7	
Benzo(a)anthracene	**<2.9**	ug/kg	20.2	2.9	1	04/09/10 10:30	04/09/10 15:12	56-55-3	
Benzo(a)pyrene	**<3.3**	ug/kg	20.2	3.3	1	04/09/10 10:30	04/09/10 15:12	50-32-8	
Benzo(b)fluoranthene	**<3.5**	ug/kg	20.2	3.5	1	04/09/10 10:30	04/09/10 15:12	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	20.2	2.7	1	04/09/10 10:30	04/09/10 15:12	191-24-2	
Benzo(k)fluoranthene	**<3.8**	ug/kg	20.2	3.8	1	04/09/10 10:30	04/09/10 15:12	207-08-9	
Chrysene	**<3.7**	ug/kg	20.2	3.7	1	04/09/10 10:30	04/09/10 15:12	218-01-9	
Dibenz(a,h)anthracene	**<5.5**	ug/kg	20.2	5.5	1	04/09/10 10:30	04/09/10 15:12	53-70-3	
Fluoranthene	**<10.1**	ug/kg	20.2	10.1	1	04/09/10 10:30	04/09/10 15:12	206-44-0	
Fluorene	**<5.0**	ug/kg	20.2	5.0	1	04/09/10 10:30	04/09/10 15:12	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.9**	ug/kg	20.2	2.9	1	04/09/10 10:30	04/09/10 15:12	193-39-5	
1-Methylnaphthalene	**<3.1**	ug/kg	20.2	3.1	1	04/09/10 10:30	04/09/10 15:12	90-12-0	
2-Methylnaphthalene	**<3.1**	ug/kg	20.2	3.1	1	04/09/10 10:30	04/09/10 15:12	91-57-6	
Naphthalene	**<3.5**	ug/kg	20.2	3.5	1	04/09/10 10:30	04/09/10 15:12	91-20-3	
Phenanthrene	**<4.4**	ug/kg	20.2	4.4	1	04/09/10 10:30	04/09/10 15:12	85-01-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

Sample: SP-12 **Lab ID: 4030171011** Collected: 03/30/10 14:00 Received: 04/03/10 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

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 3546								
Pyrene	**<3.7**	ug/kg	20.2	3.7	1	04/09/10 10:30	04/09/10 15:12	129-00-0	
2-Fluorobiphenyl (S)	77	%-	38-130		1	04/09/10 10:30	04/09/10 15:12	321-60-8	
Terphenyl-d14 (S)	93	%-	41-130		1	04/09/10 10:30	04/09/10 15:12	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.6**	%	0.10	0.10	1		04/05/10 10:20		

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

QC Batch: OEXT/6974 — Analysis Method: EPA 8082
QC Batch Method: EPA 3541 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4030171004, 4030171005, 4030171006, 4030171007, 4030171008, 4030171011

METHOD BLANK: 282988 — Matrix: Solid
Associated Lab Samples: 4030171004, 4030171005, 4030171006, 4030171007, 4030171008, 4030171011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<23.6	100	04/09/10 14:20	
PCB-1221 (Aroclor 1221)	ug/kg	<23.6	100	04/09/10 14:20	
PCB-1232 (Aroclor 1232)	ug/kg	<23.6	100	04/09/10 14:20	
PCB-1242 (Aroclor 1242)	ug/kg	<23.6	100	04/09/10 14:20	
PCB-1248 (Aroclor 1248)	ug/kg	<23.6	100	04/09/10 14:20	
PCB-1254 (Aroclor 1254)	ug/kg	<23.6	100	04/09/10 14:20	
PCB-1260 (Aroclor 1260)	ug/kg	<23.6	100	04/09/10 14:20	
Decachlorobiphenyl (S)	%-	77	56-130	04/09/10 14:20	
Tetrachloro-m-xylene (S)	%-	68	50-137	04/09/10 14:20	

LABORATORY CONTROL SAMPLE: 282989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<23.6			
PCB-1221 (Aroclor 1221)	ug/kg		<23.6			
PCB-1232 (Aroclor 1232)	ug/kg		<23.6			
PCB-1242 (Aroclor 1242)	ug/kg		<23.6			
PCB-1248 (Aroclor 1248)	ug/kg		<23.6			
PCB-1254 (Aroclor 1254)	ug/kg		<23.6			
PCB-1260 (Aroclor 1260)	ug/kg	500	379	76	53-109	
Decachlorobiphenyl (S)	%-			83	56-130	
Tetrachloro-m-xylene (S)	%-			76	50-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 282990 282991

Parameter	Units	4030171004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<29.4			<29.4	<29.4					21	
PCB-1221 (Aroclor 1221)	ug/kg	<29.4			<29.4	<29.4					21	
PCB-1232 (Aroclor 1232)	ug/kg	<29.4			<29.4	<29.4					21	
PCB-1242 (Aroclor 1242)	ug/kg	<29.4			<29.4	<29.4					21	
PCB-1248 (Aroclor 1248)	ug/kg	<29.4			<29.4	<29.4					21	
PCB-1254 (Aroclor 1254)	ug/kg	<29.4			<29.4	<29.4					21	
PCB-1260 (Aroclor 1260)	ug/kg	<29.4	623	623	459	455	74	73	38-110	.7	21	
Decachlorobiphenyl (S)	%-						79	79	56-130			
Tetrachloro-m-xylene (S)	%-						72	71	50-137			

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

QC Batch: OEXT/6980 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004, 4030171005, 4030171008, 4030171009, 4030171010, 4030171011

METHOD BLANK: 283400 Matrix: Solid
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004, 4030171005, 4030171008, 4030171009, 4030171010, 4030171011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.99	2.0	04/09/10 09:59	

LABORATORY CONTROL SAMPLE & LCSD: 283401 283402

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	20	15.8	20.5	79	102	70-120	26	20	R1

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

QC Batch: GCV/4818 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004, 4030171005, 4030171008, 4030171009, 4030171010, 4030171011

METHOD BLANK: 282898 Matrix: Solid
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004, 4030171005, 4030171008, 4030171009, 4030171010, 4030171011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	04/07/10 07:33	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	04/07/10 07:33	
Benzene	ug/kg	<25.0	60.0	04/07/10 07:33	
Ethylbenzene	ug/kg	<25.0	60.0	04/07/10 07:33	
Gasoline Range Organics	mg/kg	<2.5	2.5	04/07/10 07:33	
m&p-Xylene	ug/kg	<50.0	120	04/07/10 07:33	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	04/07/10 07:33	
o-Xylene	ug/kg	<25.0	60.0	04/07/10 07:33	
Toluene	ug/kg	<25.0	60.0	04/07/10 07:33	
Xylene (Total)	ug/kg	<75.0	180	04/07/10 07:33	
a,a,a-Trifluorotoluene (S)	%-	102	80-120	04/07/10 07:33	

LABORATORY CONTROL SAMPLE & LCSD: 282899 282900

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	989	997	99	100	80-120	.8	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1010	100	101	80-120	.2	20	
Benzene	ug/kg	1000	978	991	98	99	80-120	1	20	
Ethylbenzene	ug/kg	1000	993	997	99	100	80-120	.4	20	
Gasoline Range Organics	mg/kg	10	9.2	9.1	92	91	80-120	1	20	
m&p-Xylene	ug/kg	2000	1980	1990	99	99	80-120	.1	20	
Methyl-tert-butyl ether	ug/kg	1000	998	1010	100	101	80-120	1	20	
o-Xylene	ug/kg	1000	1010	1010	101	101	80-120	.05	20	
Toluene	ug/kg	1000	986	991	99	99	80-120	.5	20	
Xylene (Total)	ug/kg	3000	2990	3000	100	100	80-120	.09	20	
a,a,a-Trifluorotoluene (S)	%-				101	102	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: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

QC Batch: OEXT/6973 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004

METHOD BLANK: 282908 | Matrix: Solid
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.5	16.7	04/06/10 12:14	
2-Methylnaphthalene	ug/kg	<2.5	16.7	04/06/10 12:14	
Acenaphthene	ug/kg	<2.3	16.7	04/06/10 12:14	
Acenaphthylene	ug/kg	<2.7	16.7	04/06/10 12:14	
Anthracene	ug/kg	<3.9	16.7	04/06/10 12:14	
Benzo(a)anthracene	ug/kg	<2.4	16.7	04/06/10 12:14	
Benzo(a)pyrene	ug/kg	<2.7	16.7	04/06/10 12:14	
Benzo(b)fluoranthene	ug/kg	<2.9	16.7	04/06/10 12:14	
Benzo(g,h,i)perylene	ug/kg	<2.2	16.7	04/06/10 12:14	
Benzo(k)fluoranthene	ug/kg	<3.1	16.7	04/06/10 12:14	
Chrysene	ug/kg	<3.0	16.7	04/06/10 12:14	
Dibenz(a,h)anthracene	ug/kg	<4.5	16.7	04/06/10 12:14	
Fluoranthene	ug/kg	<8.3	16.7	04/06/10 12:14	
Fluorene	ug/kg	<4.1	16.7	04/06/10 12:14	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.4	16.7	04/06/10 12:14	
Naphthalene	ug/kg	<2.9	16.7	04/06/10 12:14	
Phenanthrene	ug/kg	<3.7	16.7	04/06/10 12:14	
Pyrene	ug/kg	<3.1	16.7	04/06/10 12:14	
2-Fluorobiphenyl (S)	%-	64	38-130	04/06/10 12:14	
Terphenyl-d14 (S)	%-	74	41-130	04/06/10 12:14	

LABORATORY CONTROL SAMPLE: 282909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	255	77	50-130	
2-Methylnaphthalene	ug/kg	333	252	76	48-130	
Acenaphthene	ug/kg	333	281	84	51-130	
Acenaphthylene	ug/kg	333	265	80	51-130	
Anthracene	ug/kg	333	297	89	55-130	
Benzo(a)anthracene	ug/kg	333	263	79	37-130	
Benzo(a)pyrene	ug/kg	333	276	83	56-130	
Benzo(b)fluoranthene	ug/kg	333	301	90	55-130	
Benzo(g,h,i)perylene	ug/kg	333	291	87	49-130	
Benzo(k)fluoranthene	ug/kg	333	313	94	61-130	
Chrysene	ug/kg	333	253	76	43-130	
Dibenz(a,h)anthracene	ug/kg	333	287	86	51-130	
Fluoranthene	ug/kg	333	285	85	57-130	
Fluorene	ug/kg	333	278	83	51-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	292	88	52-130	
Naphthalene	ug/kg	333	242	73	49-130	
Phenanthrene	ug/kg	333	264	79	52-130	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

LABORATORY CONTROL SAMPLE: 282909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	298	89	35-130	
2-Fluorobiphenyl (S)	%-			72	38-130	
Terphenyl-d14 (S)	%-			77	41-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 282910 282911

Parameter	Units	4030122008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<20.8	415	415	335	330	81	79	38-130	2	42	
2-Methylnaphthalene	ug/kg	<20.8	415	415	334	329	80	79	20-139	2	39	
Acenaphthene	ug/kg	<20.8	415	415	339	334	82	80	42-130	2	32	
Acenaphthylene	ug/kg	<20.8	415	415	340	330	82	79	47-130	3	31	
Anthracene	ug/kg	21.7	415	415	377	349	86	79	33-134	8	30	
Benzo(a)anthracene	ug/kg	39.9	415	415	350	309	75	65	27-130	13	25	
Benzo(a)pyrene	ug/kg	30.6	415	415	332	316	72	69	35-132	5	33	
Benzo(b)fluoranthene	ug/kg	36.0	415	415	376	348	82	75	27-141	8	39	
Benzo(g,h,i)perylene	ug/kg	<20.8	415	415	344	319	78	72	13-146	8	47	
Benzo(k)fluoranthene	ug/kg	31.0	415	415	366	360	81	79	18-155	2	31	
Chrysene	ug/kg	48.2	415	415	332	292	68	59	30-130	13	24	
Dibenz(a,h)anthracene	ug/kg	<20.8	415	415	342	321	81	76	33-130	6	39	
Fluoranthene	ug/kg	94.7	415	415	362	340	64	59	37-138	6	31	
Fluorene	ug/kg	<20.8	415	415	350	339	83	80	42-130	3	32	
Indeno(1,2,3-cd)pyrene	ug/kg	<20.8	415	415	347	324	79	74	25-134	7	39	
Naphthalene	ug/kg	<20.8	415	415	323	327	77	78	39-130	1	43	
Phenanthrene	ug/kg	54.0	415	415	357	329	73	66	32-135	8	32	
Pyrene	ug/kg	85.3	415	415	394	354	74	65	31-130	11	26	
2-Fluorobiphenyl (S)	%-						74	74	38-130			
Terphenyl-d14 (S)	%-						83	75	41-130			

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

QC Batch: OEXT/6992 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4030171005, 4030171006, 4030171007, 4030171008, 4030171009, 4030171010, 4030171011

METHOD BLANK: 284368 | Matrix: Solid
Associated Lab Samples: 4030171005, 4030171006, 4030171007, 4030171008, 4030171009, 4030171010, 4030171011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.5	16.7	04/09/10 11:04	
2-Methylnaphthalene	ug/kg	<2.5	16.7	04/09/10 11:04	
Acenaphthene	ug/kg	<2.3	16.7	04/09/10 11:04	
Acenaphthylene	ug/kg	<2.7	16.7	04/09/10 11:04	
Anthracene	ug/kg	<3.9	16.7	04/09/10 11:04	
Benzo(a)anthracene	ug/kg	<2.4	16.7	04/09/10 11:04	
Benzo(a)pyrene	ug/kg	<2.7	16.7	04/09/10 11:04	
Benzo(b)fluoranthene	ug/kg	<2.9	16.7	04/09/10 11:04	
Benzo(g,h,i)perylene	ug/kg	<2.2	16.7	04/09/10 11:04	
Benzo(k)fluoranthene	ug/kg	<3.1	16.7	04/09/10 11:04	
Chrysene	ug/kg	<3.0	16.7	04/09/10 11:04	
Dibenz(a,h)anthracene	ug/kg	<4.5	16.7	04/09/10 11:04	
Fluoranthene	ug/kg	<8.3	16.7	04/09/10 11:04	
Fluorene	ug/kg	<4.1	16.7	04/09/10 11:04	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.4	16.7	04/09/10 11:04	
Naphthalene	ug/kg	<2.9	16.7	04/09/10 11:04	
Phenanthrene	ug/kg	<3.7	16.7	04/09/10 11:04	
Pyrene	ug/kg	<3.1	16.7	04/09/10 11:04	
2-Fluorobiphenyl (S)	%-	82	38-130	04/09/10 11:04	
Terphenyl-d14 (S)	%-	93	41-130	04/09/10 11:04	

LABORATORY CONTROL SAMPLE: 284369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	299	90	50-130	
2-Methylnaphthalene	ug/kg	333	298	89	48-130	
Acenaphthene	ug/kg	333	321	96	51-130	
Acenaphthylene	ug/kg	333	313	94	51-130	
Anthracene	ug/kg	333	343	103	55-130	
Benzo(a)anthracene	ug/kg	333	309	93	37-130	
Benzo(a)pyrene	ug/kg	333	328	98	56-130	
Benzo(b)fluoranthene	ug/kg	333	316	95	55-130	
Benzo(g,h,i)perylene	ug/kg	333	356	107	49-130	
Benzo(k)fluoranthene	ug/kg	333	394	118	61-130	
Chrysene	ug/kg	333	295	88	43-130	
Dibenz(a,h)anthracene	ug/kg	333	343	103	51-130	
Fluoranthene	ug/kg	333	321	96	57-130	
Fluorene	ug/kg	333	325	97	51-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	352	106	52-130	
Naphthalene	ug/kg	333	292	88	49-130	
Phenanthrene	ug/kg	333	312	94	52-130	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

LABORATORY CONTROL SAMPLE: 284369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	343	103	35-130	
2-Fluorobiphenyl (S)	%-			86	38-130	
Terphenyl-d14 (S)	%-			91	41-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 284370 284371

Parameter	Units	4030171005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<2.9	385	385	345	334	89	87	38-130	3	42	
2-Methylnaphthalene	ug/kg	<2.9	385	385	343	332	89	86	20-139	3	39	
Acenaphthene	ug/kg	<2.7	385	385	377	337	98	87	42-130	11	32	
Acenaphthylene	ug/kg	<3.1	385	385	354	340	92	88	47-130	4	31	
Anthracene	ug/kg	<4.5	385	385	409	353	106	92	33-134	15	30	
Benzo(a)anthracene	ug/kg	<2.7	385	385	369	333	96	86	27-130	10	25	
Benzo(a)pyrene	ug/kg	<3.2	385	385	359	325	93	84	35-132	10	33	
Benzo(b)fluoranthene	ug/kg	<3.3	385	385	414	385	107	100	27-141	7	39	
Benzo(g,h,i)perylene	ug/kg	<2.5	385	385	398	362	103	94	13-146	10	47	
Benzo(k)fluoranthene	ug/kg	<3.6	385	385	378	337	98	87	18-155	11	31	
Chrysene	ug/kg	<3.5	385	385	361	318	94	83	30-130	13	24	
Dibenz(a,h)anthracene	ug/kg	<5.2	385	385	388	345	101	90	33-130	12	39	
Fluoranthene	ug/kg	<9.6	385	385	382	330	99	86	37-138	15	31	
Fluorene	ug/kg	<4.8	385	385	363	341	94	88	42-130	6	32	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	385	385	393	352	102	91	25-134	11	39	
Naphthalene	ug/kg	3.5J	385	385	334	326	86	84	39-130	3	43	
Phenanthrene	ug/kg	<4.2	385	385	374	317	97	82	32-135	16	32	
Pyrene	ug/kg	<3.5	385	385	414	373	108	97	31-130	11	26	
2-Fluorobiphenyl (S)	%-						83	83	38-130			
Terphenyl-d14 (S)	%-						92	86	41-130			

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

QC Batch: PMST/3788 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4030171001, 4030171002, 4030171003, 4030171004, 4030171005, 4030171006, 4030171007, 4030171008, 4030171009, 4030171010, 4030171011

SAMPLE DUPLICATE: 282522

Parameter	Units	4030169001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	7.9	.9	10	

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QUALIFIERS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030171

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

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

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4030171

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:	Kewaukee
Project Contact:	Matt Dahlem
Phone:	262-347-0898
Project Number:	0054238
Project Name:	Firestone - Muskego
Project State:	WI
Sampled By (Print):	Matt Dahlem
Sampled By (Sign):	Matt Dahlem
PO #:	
Regulatory Program:	

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

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

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

Matrix Codes
A = Air, 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	PAH	PVOC	PCB	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO) Y/N					N	N	N	N	N			
PRESERVATION (CODE)* Pick Letter					A	F	A	F	A			
001	SP-1	2/30/10	830	S	X	X	X	X		2-40ml F	2-4oz ag A	
002	SP-2		900		X	X	X	X				
003	SP-3		930		X	X	X	X				
004	SP-4		1000		X	X	X	X	X		3-4oz ag A	
005	SP-5		1030		X	X	X	X	X			
006	SP-6		1100				X		X		2-4oz ag A	
007	SP-7		1130				X		X			
008	SP-8		1200		X	X	X	X	X		3-4oz ag A	
009	SP-10		1300		X	X	X	X			2-4oz ag A	
010	SP-11		1330		X	X	X	X				
011	SP-12		1400		X	X	X	X	X		3-4oz ag A	

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 Dahlem	4/2/10 0830	D. Fanning	4/2/10 0830
D. Fanning	4/2/10 1700		
LS Logistics	4/3/10 0875		4/3/10 0875

PACE Project No. 4030171

Receipt Temp = P01 °C

Sample Receipt pH OK / Adjusted NA

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

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

Pace Analytical

Sample Condition Upon Receipt

Client Name: PSI Project # 4030171

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other _____

Tracking #: _____

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

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

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

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

Cooler Temperature 20.1 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Optional
Proj. Due Date:
Proj. Name:

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

Person examining contents:
Date: 4/8/10
Initials: AE

				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. DRO jars came full. AE 4/8/10
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-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				
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: LKW **Date:** 4/5/10

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)

Pace Analytical Services, Inc.
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April 06, 2010

Matt Dahlem
PSI Incorporated
W237 N2878 Woodgate Road
Suite 2
Pewaukee, WI 53072

RE: Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Dear Matt Dahlem:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2010. 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

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4030054001	**TW-11**	Water	03/30/10 14:30	04/01/10 08:15
4030054002	**TW-12**	Water	03/30/10 14:45	04/01/10 08:15
4030054003	**TW-5**	Water	03/30/10 15:05	04/01/10 08:15
4030054004	**TW-2**	Water	03/30/10 16:45	04/01/10 08:15
4030054005	**TRIP BLANK**	Water	03/30/10 16:45	04/01/10 08:15

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SAMPLE ANALYTE COUNT

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4030054001	**TW-11**	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	64	PASI-G
4030054002	**TW-12**	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	64	PASI-G
4030054003	**TW-5**	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	64	PASI-G
4030054004	**TW-2**	EPA 8260	SMT	64	PASI-G

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-11 **Lab ID: 4030054001** Collected: 03/30/10 14:30 Received: 04/01/10 08:15 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	**<0.0046**	ug/L	0.048	0.0046	1	04/02/10 11:00	04/02/10 22:52	83-32-9	
Acenaphthylene	**<0.0036**	ug/L	0.048	0.0036	1	04/02/10 11:00	04/02/10 22:52	208-96-8	
Anthracene	**<0.0058**	ug/L	0.048	0.0058	1	04/02/10 11:00	04/02/10 22:52	120-12-7	
Benzo(a)anthracene	**0.019J**	ug/L	0.048	0.0037	1	04/02/10 11:00	04/02/10 22:52	56-55-3	
Benzo(a)pyrene	**0.020J**	ug/L	0.048	0.0029	1	04/02/10 11:00	04/02/10 22:52	50-32-8	
Benzo(b)fluoranthene	**0.019J**	ug/L	0.048	0.0034	1	04/02/10 11:00	04/02/10 22:52	205-99-2	
Benzo(g,h,i)perylene	**0.016J**	ug/L	0.048	0.0049	1	04/02/10 11:00	04/02/10 22:52	191-24-2	
Benzo(k)fluoranthene	**0.024J**	ug/L	0.048	0.0044	1	04/02/10 11:00	04/02/10 22:52	207-08-9	
Chrysene	**0.023J**	ug/L	0.048	0.0035	1	04/02/10 11:00	04/02/10 22:52	218-01-9	
Dibenz(a,h)anthracene	**0.0036J**	ug/L	0.048	0.0032	1	04/02/10 11:00	04/02/10 22:52	53-70-3	
Fluoranthene	**0.048**	ug/L	0.048	0.0044	1	04/02/10 11:00	04/02/10 22:52	206-44-0	
Fluorene	**<0.0048**	ug/L	0.048	0.0048	1	04/02/10 11:00	04/02/10 22:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.013J**	ug/L	0.048	0.0047	1	04/02/10 11:00	04/02/10 22:52	193-39-5	
1-Methylnaphthalene	**<0.0050**	ug/L	0.048	0.0050	1	04/02/10 11:00	04/02/10 22:52	90-12-0	
2-Methylnaphthalene	**<0.0039**	ug/L	0.048	0.0039	1	04/02/10 11:00	04/02/10 22:52	91-57-6	
Naphthalene	**0.0087J**	ug/L	0.048	0.0049	1	04/02/10 11:00	04/02/10 22:52	91-20-3	
Phenanthrene	**0.020J**	ug/L	0.048	0.0082	1	04/02/10 11:00	04/02/10 22:52	85-01-8	
Pyrene	**0.038J**	ug/L	0.048	0.0048	1	04/02/10 11:00	04/02/10 22:52	129-00-0	
2-Fluorobiphenyl (S)	60	%-	25-130		1	04/02/10 11:00	04/02/10 22:52	321-60-8	
Terphenyl-d14 (S)	86	%-	36-140		1	04/02/10 11:00	04/02/10 22:52	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		04/05/10 09:03	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		04/05/10 09:03	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:03	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		04/05/10 09:03	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		04/05/10 09:03	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		04/05/10 09:03	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		04/05/10 09:03	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		04/05/10 09:03	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:03	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		04/05/10 09:03	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		04/05/10 09:03	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/05/10 09:03	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		04/05/10 09:03	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		04/05/10 09:03	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		04/05/10 09:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		04/05/10 09:03	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		04/05/10 09:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		04/05/10 09:03	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		04/05/10 09:03	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:03	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		04/05/10 09:03	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		04/05/10 09:03	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		04/05/10 09:03	75-71-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-11 **Lab ID: 4030054001** Collected: 03/30/10 14:30 Received: 04/01/10 08:15 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		04/05/10 09:03	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		04/05/10 09:03	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		04/05/10 09:03	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:03	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		04/05/10 09:03	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		04/05/10 09:03	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		04/05/10 09:03	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		04/05/10 09:03	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		04/05/10 09:03	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		04/05/10 09:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		04/05/10 09:03	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		04/05/10 09:03	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		04/05/10 09:03	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		04/05/10 09:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		04/05/10 09:03	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		04/05/10 09:03	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		04/05/10 09:03	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		04/05/10 09:03	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		04/05/10 09:03	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		04/05/10 09:03	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		04/05/10 09:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		04/05/10 09:03	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		04/05/10 09:03	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		04/05/10 09:03	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		04/05/10 09:03	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		04/05/10 09:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:03	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		04/05/10 09:03	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		04/05/10 09:03	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		04/05/10 09:03	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		04/05/10 09:03	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		04/05/10 09:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:03	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/05/10 09:03	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		04/05/10 09:03	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:03	95-47-6	
4-Bromofluorobenzene (S)	90	%-	70-130		1		04/05/10 09:03	460-00-4	
Dibromofluoromethane (S)	100	%-	70-130		1		04/05/10 09:03	1868-53-7	
Toluene-d8 (S)	95	%-	70-130		1		04/05/10 09:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-12 **Lab ID: 4030054002** Collected: 03/30/10 14:45 Received: 04/01/10 08:15 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	**<0.0047**	ug/L	0.049	0.0047	1	04/02/10 11:00	04/02/10 23:10	83-32-9	
Acenaphthylene	**<0.0037**	ug/L	0.049	0.0037	1	04/02/10 11:00	04/02/10 23:10	208-96-8	
Anthracene	**0.0063J**	ug/L	0.049	0.0060	1	04/02/10 11:00	04/02/10 23:10	120-12-7	
Benzo(a)anthracene	**0.018J**	ug/L	0.049	0.0038	1	04/02/10 11:00	04/02/10 23:10	56-55-3	
Benzo(a)pyrene	**0.028J**	ug/L	0.049	0.0030	1	04/02/10 11:00	04/02/10 23:10	50-32-8	
Benzo(b)fluoranthene	**0.035J**	ug/L	0.049	0.0035	1	04/02/10 11:00	04/02/10 23:10	205-99-2	
Benzo(g,h,i)perylene	**0.037J**	ug/L	0.049	0.0050	1	04/02/10 11:00	04/02/10 23:10	191-24-2	
Benzo(k)fluoranthene	**0.032J**	ug/L	0.049	0.0045	1	04/02/10 11:00	04/02/10 23:10	207-08-9	
Chrysene	**0.039J**	ug/L	0.049	0.0036	1	04/02/10 11:00	04/02/10 23:10	218-01-9	
Dibenz(a,h)anthracene	**0.0076J**	ug/L	0.049	0.0033	1	04/02/10 11:00	04/02/10 23:10	53-70-3	
Fluoranthene	**0.045J**	ug/L	0.049	0.0046	1	04/02/10 11:00	04/02/10 23:10	206-44-0	
Fluorene	**<0.0050**	ug/L	0.049	0.0050	1	04/02/10 11:00	04/02/10 23:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.024J**	ug/L	0.049	0.0049	1	04/02/10 11:00	04/02/10 23:10	193-39-5	
1-Methylnaphthalene	**<0.0052**	ug/L	0.049	0.0052	1	04/02/10 11:00	04/02/10 23:10	90-12-0	
2-Methylnaphthalene	**0.0055J**	ug/L	0.049	0.0040	1	04/02/10 11:00	04/02/10 23:10	91-57-6	
Naphthalene	**0.0091J**	ug/L	0.049	0.0050	1	04/02/10 11:00	04/02/10 23:10	91-20-3	
Phenanthrene	**0.019J**	ug/L	0.049	0.0084	1	04/02/10 11:00	04/02/10 23:10	85-01-8	
Pyrene	**0.052**	ug/L	0.049	0.0049	1	04/02/10 11:00	04/02/10 23:10	129-00-0	
2-Fluorobiphenyl (S)	51	%-	25-130		1	04/02/10 11:00	04/02/10 23:10	321-60-8	
Terphenyl-d14 (S)	86	%-	36-140		1	04/02/10 11:00	04/02/10 23:10	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		04/05/10 09:26	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		04/05/10 09:26	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:26	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		04/05/10 09:26	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		04/05/10 09:26	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		04/05/10 09:26	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		04/05/10 09:26	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		04/05/10 09:26	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:26	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		04/05/10 09:26	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		04/05/10 09:26	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:26	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/05/10 09:26	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		04/05/10 09:26	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		04/05/10 09:26	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		04/05/10 09:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		04/05/10 09:26	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		04/05/10 09:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		04/05/10 09:26	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		04/05/10 09:26	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:26	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		04/05/10 09:26	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		04/05/10 09:26	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		04/05/10 09:26	75-71-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-12 **Lab ID: 4030054002** Collected: 03/30/10 14:45 Received: 04/01/10 08:15 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		04/05/10 09:26	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		04/05/10 09:26	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		04/05/10 09:26	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:26	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		04/05/10 09:26	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		04/05/10 09:26	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		04/05/10 09:26	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		04/05/10 09:26	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		04/05/10 09:26	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		04/05/10 09:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		04/05/10 09:26	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		04/05/10 09:26	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		04/05/10 09:26	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		04/05/10 09:26	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		04/05/10 09:26	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		04/05/10 09:26	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		04/05/10 09:26	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		04/05/10 09:26	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		04/05/10 09:26	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		04/05/10 09:26	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		04/05/10 09:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		04/05/10 09:26	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		04/05/10 09:26	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		04/05/10 09:26	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		04/05/10 09:26	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		04/05/10 09:26	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:26	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		04/05/10 09:26	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		04/05/10 09:26	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		04/05/10 09:26	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		04/05/10 09:26	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		04/05/10 09:26	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:26	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/05/10 09:26	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		04/05/10 09:26	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:26	95-47-6	
4-Bromofluorobenzene (S)	89	%-	70-130		1		04/05/10 09:26	460-00-4	
Dibromofluoromethane (S)	99	%-	70-130		1		04/05/10 09:26	1868-53-7	pH
Toluene-d8 (S)	95	%-	70-130		1		04/05/10 09:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-5 **Lab ID: 4030054003** Collected: 03/30/10 15:05 Received: 04/01/10 08:15 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	**0.025J**	ug/L	0.050	0.0048	1	04/02/10 11:00	04/02/10 23:27	83-32-9	
Acenaphthylene	**0.0042J**	ug/L	0.050	0.0038	1	04/02/10 11:00	04/02/10 23:27	208-96-8	
Anthracene	**0.010J**	ug/L	0.050	0.0060	1	04/02/10 11:00	04/02/10 23:27	120-12-7	
Benzo(a)anthracene	**0.011J**	ug/L	0.050	0.0038	1	04/02/10 11:00	04/02/10 23:27	56-55-3	
Benzo(a)pyrene	**0.010J**	ug/L	0.050	0.0030	1	04/02/10 11:00	04/02/10 23:27	50-32-8	
Benzo(b)fluoranthene	**0.018J**	ug/L	0.050	0.0036	1	04/02/10 11:00	04/02/10 23:27	205-99-2	
Benzo(g,h,i)perylene	**0.015J**	ug/L	0.050	0.0050	1	04/02/10 11:00	04/02/10 23:27	191-24-2	
Benzo(k)fluoranthene	**0.011J**	ug/L	0.050	0.0046	1	04/02/10 11:00	04/02/10 23:27	207-08-9	
Chrysene	**0.021J**	ug/L	0.050	0.0037	1	04/02/10 11:00	04/02/10 23:27	218-01-9	
Dibenz(a,h)anthracene	**0.0039J**	ug/L	0.050	0.0034	1	04/02/10 11:00	04/02/10 23:27	53-70-3	
Fluoranthene	**0.047J**	ug/L	0.050	0.0046	1	04/02/10 11:00	04/02/10 23:27	206-44-0	
Fluorene	**0.016J**	ug/L	0.050	0.0050	1	04/02/10 11:00	04/02/10 23:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0079J**	ug/L	0.050	0.0049	1	04/02/10 11:00	04/02/10 23:27	193-39-5	
1-Methylnaphthalene	**0.038J**	ug/L	0.050	0.0052	1	04/02/10 11:00	04/02/10 23:27	90-12-0	
2-Methylnaphthalene	**0.042J**	ug/L	0.050	0.0040	1	04/02/10 11:00	04/02/10 23:27	91-57-6	
Naphthalene	**0.068**	ug/L	0.050	0.0051	1	04/02/10 11:00	04/02/10 23:27	91-20-3	
Phenanthrene	**0.046J**	ug/L	0.050	0.0085	1	04/02/10 11:00	04/02/10 23:27	85-01-8	
Pyrene	**0.034J**	ug/L	0.050	0.0050	1	04/02/10 11:00	04/02/10 23:27	129-00-0	
2-Fluorobiphenyl (S)	60	%-	25-130		1	04/02/10 11:00	04/02/10 23:27	321-60-8	
Terphenyl-d14 (S)	86	%-	36-140		1	04/02/10 11:00	04/02/10 23:27	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		04/05/10 09:49	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		04/05/10 09:49	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:49	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		04/05/10 09:49	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		04/05/10 09:49	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		04/05/10 09:49	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		04/05/10 09:49	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		04/05/10 09:49	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:49	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		04/05/10 09:49	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		04/05/10 09:49	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:49	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/05/10 09:49	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		04/05/10 09:49	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		04/05/10 09:49	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		04/05/10 09:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		04/05/10 09:49	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		04/05/10 09:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		04/05/10 09:49	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		04/05/10 09:49	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:49	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		04/05/10 09:49	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		04/05/10 09:49	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		04/05/10 09:49	75-71-8	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-5 **Lab ID: 4030054003** Collected: 03/30/10 15:05 Received: 04/01/10 08:15 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		04/05/10 09:49	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		04/05/10 09:49	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		04/05/10 09:49	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:49	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		04/05/10 09:49	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		04/05/10 09:49	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		04/05/10 09:49	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		04/05/10 09:49	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		04/05/10 09:49	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		04/05/10 09:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		04/05/10 09:49	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		04/05/10 09:49	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		04/05/10 09:49	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		04/05/10 09:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		04/05/10 09:49	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		04/05/10 09:49	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		04/05/10 09:49	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		04/05/10 09:49	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		04/05/10 09:49	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		04/05/10 09:49	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		04/05/10 09:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		04/05/10 09:49	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		04/05/10 09:49	79-34-5	
Tetrachloroethene	**0.77J**	ug/L	1.0	0.45	1		04/05/10 09:49	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		04/05/10 09:49	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		04/05/10 09:49	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:49	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		04/05/10 09:49	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		04/05/10 09:49	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		04/05/10 09:49	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		04/05/10 09:49	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		04/05/10 09:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/05/10 09:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:49	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/05/10 09:49	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		04/05/10 09:49	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		04/05/10 09:49	95-47-6	
4-Bromofluorobenzene (S)	89	%-	70-130		1		04/05/10 09:49	460-00-4	
Dibromofluoromethane (S)	99	%-	70-130		1		04/05/10 09:49	1868-53-7	pH
Toluene-d8 (S)	95	%-	70-130		1		04/05/10 09:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-2 **Lab ID: 4030054004** Collected: 03/30/10 16:45 Received: 04/01/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**53.9**	ug/L	1.0	0.41	1		04/02/10 13:10	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		04/02/10 13:10	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		04/02/10 13:10	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		04/02/10 13:10	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		04/02/10 13:10	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		04/02/10 13:10	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		04/02/10 13:10	104-51-8	
sec-Butylbenzene	**1.0J**	ug/L	5.0	0.89	1		04/02/10 13:10	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/02/10 13:10	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		04/02/10 13:10	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		04/02/10 13:10	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		04/02/10 13:10	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/02/10 13:10	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		04/02/10 13:10	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		04/02/10 13:10	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		04/02/10 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		04/02/10 13:10	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		04/02/10 13:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		04/02/10 13:10	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		04/02/10 13:10	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		04/02/10 13:10	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		04/02/10 13:10	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		04/02/10 13:10	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		04/02/10 13:10	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		04/02/10 13:10	75-34-3	
1,2-Dichloroethane	**7.2**	ug/L	1.0	0.36	1		04/02/10 13:10	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		04/02/10 13:10	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		04/02/10 13:10	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		04/02/10 13:10	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		04/02/10 13:10	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		04/02/10 13:10	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		04/02/10 13:10	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		04/02/10 13:10	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		04/02/10 13:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		04/02/10 13:10	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		04/02/10 13:10	108-20-3	
Ethylbenzene	**152**	ug/L	1.0	0.54	1		04/02/10 13:10	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		04/02/10 13:10	87-68-3	
Isopropylbenzene (Cumene)	**6.8**	ug/L	1.0	0.59	1		04/02/10 13:10	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		04/02/10 13:10	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		04/02/10 13:10	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		04/02/10 13:10	1634-04-4	
Naphthalene	**75.8**	ug/L	5.0	0.89	1		04/02/10 13:10	91-20-3	
n-Propylbenzene	**25.0**	ug/L	1.0	0.81	1		04/02/10 13:10	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		04/02/10 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		04/02/10 13:10	630-20-6	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TW-2 **Lab ID: 4030054004** Collected: 03/30/10 16:45 Received: 04/01/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		04/02/10 13:10	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		04/02/10 13:10	127-18-4	
Toluene	**207**	ug/L	1.0	0.67	1		04/02/10 13:10	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		04/02/10 13:10	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		04/02/10 13:10	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		04/02/10 13:10	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		04/02/10 13:10	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		04/02/10 13:10	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		04/02/10 13:10	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		04/02/10 13:10	96-18-4	
1,2,4-Trimethylbenzene	**87.2**	ug/L	1.0	0.97	1		04/02/10 13:10	95-63-6	
1,3,5-Trimethylbenzene	**48.2**	ug/L	1.0	0.83	1		04/02/10 13:10	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/02/10 13:10	75-01-4	
m&p-Xylene	**82.6**	ug/L	2.0	1.8	1		04/02/10 13:10	1330-20-7	
o-Xylene	**43.2**	ug/L	1.0	0.83	1		04/02/10 13:10	95-47-6	
4-Bromofluorobenzene (S)	84	%-	70-130		1		04/02/10 13:10	460-00-4	
Dibromofluoromethane (S)	80	%-	70-130		1		04/02/10 13:10	1868-53-7	
Toluene-d8 (S)	83	%-	70-130		1		04/02/10 13:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TRIP BLANK **Lab ID: 4030054005** Collected: 03/30/10 16:45 Received: 04/01/10 08:15 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		04/02/10 12:47	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		04/02/10 12:47	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		04/02/10 12:47	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		04/02/10 12:47	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		04/02/10 12:47	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		04/02/10 12:47	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		04/02/10 12:47	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		04/02/10 12:47	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/02/10 12:47	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		04/02/10 12:47	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		04/02/10 12:47	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		04/02/10 12:47	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/02/10 12:47	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		04/02/10 12:47	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		04/02/10 12:47	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		04/02/10 12:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		04/02/10 12:47	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		04/02/10 12:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		04/02/10 12:47	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		04/02/10 12:47	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		04/02/10 12:47	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		04/02/10 12:47	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		04/02/10 12:47	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		04/02/10 12:47	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		04/02/10 12:47	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		04/02/10 12:47	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		04/02/10 12:47	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		04/02/10 12:47	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		04/02/10 12:47	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		04/02/10 12:47	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		04/02/10 12:47	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		04/02/10 12:47	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		04/02/10 12:47	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		04/02/10 12:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		04/02/10 12:47	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		04/02/10 12:47	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		04/02/10 12:47	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		04/02/10 12:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		04/02/10 12:47	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		04/02/10 12:47	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		04/02/10 12:47	75-09-2	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		04/02/10 12:47	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		04/02/10 12:47	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		04/02/10 12:47	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		04/02/10 12:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		04/02/10 12:47	630-20-6	

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ANALYTICAL RESULTS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

Sample: TRIP BLANK **Lab ID: 4030054005** Collected: 03/30/10 16:45 Received: 04/01/10 08:15 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		04/02/10 12:47	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		04/02/10 12:47	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		04/02/10 12:47	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		04/02/10 12:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		04/02/10 12:47	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		04/02/10 12:47	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		04/02/10 12:47	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		04/02/10 12:47	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		04/02/10 12:47	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		04/02/10 12:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		04/02/10 12:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		04/02/10 12:47	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/02/10 12:47	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		04/02/10 12:47	1330-20-7	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		04/02/10 12:47	95-47-6	
4-Bromofluorobenzene (S)	81	%-	70-130		1		04/02/10 12:47	460-00-4	
Dibromofluoromethane (S)	81	%-	70-130		1		04/02/10 12:47	1868-53-7	
Toluene-d8 (S)	85	%-	70-130		1		04/02/10 12:47	2037-26-5	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

QC Batch: OEXT/6958 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4030054001, 4030054002, 4030054003

METHOD BLANK: 281907 | Matrix: Water
Associated Lab Samples: 4030054001, 4030054002, 4030054003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.050	04/02/10 13:44	
2-Methylnaphthalene	ug/L	<0.0041	0.050	04/02/10 13:44	
Acenaphthene	ug/L	<0.0048	0.050	04/02/10 13:44	
Acenaphthylene	ug/L	<0.0038	0.050	04/02/10 13:44	
Anthracene	ug/L	<0.0061	0.050	04/02/10 13:44	
Benzo(a)anthracene	ug/L	<0.0038	0.050	04/02/10 13:44	
Benzo(a)pyrene	ug/L	<0.0030	0.050	04/02/10 13:44	
Benzo(b)fluoranthene	ug/L	<0.0036	0.050	04/02/10 13:44	
Benzo(g,h,i)perylene	ug/L	<0.0051	0.050	04/02/10 13:44	
Benzo(k)fluoranthene	ug/L	<0.0046	0.050	04/02/10 13:44	
Chrysene	ug/L	<0.0037	0.050	04/02/10 13:44	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	04/02/10 13:44	
Fluoranthene	ug/L	<0.0047	0.050	04/02/10 13:44	
Fluorene	ug/L	<0.0051	0.050	04/02/10 13:44	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	0.050	04/02/10 13:44	
Naphthalene	ug/L	<0.0051	0.050	04/02/10 13:44	
Phenanthrene	ug/L	<0.0086	0.050	04/02/10 13:44	
Pyrene	ug/L	<0.0050	0.050	04/02/10 13:44	
2-Fluorobiphenyl (S)	%-	46	25-130	04/02/10 13:44	
Terphenyl-d14 (S)	%-	92	36-140	04/02/10 13:44	

LABORATORY CONTROL SAMPLE & LCSD: 281908 281909

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.092	0.091	46	45	33-130	1	46	
2-Methylnaphthalene	ug/L	.2	0.093	0.088	46	44	29-130	5	44	
Acenaphthene	ug/L	.2	0.10	0.089	52	44	43-130	16	46	
Acenaphthylene	ug/L	.2	0.083	0.078	42	39	33-130	6	47	
Anthracene	ug/L	.2	0.10	0.096	50	48	33-130	5	50	
Benzo(a)anthracene	ug/L	.2	0.13	0.13	64	63	41-130	.6	20	
Benzo(a)pyrene	ug/L	.2	0.13	0.14	64	68	59-130	5	20	
Benzo(b)fluoranthene	ug/L	.2	0.17	0.16	83	80	53-130	3	20	
Benzo(g,h,i)perylene	ug/L	.2	0.15	0.14	74	69	55-130	7	20	
Benzo(k)fluoranthene	ug/L	.2	0.18	0.17	88	86	64-133	2	20	
Chrysene	ug/L	.2	0.16	0.16	81	81	62-130	.4	20	
Dibenz(a,h)anthracene	ug/L	.2	0.12	0.11	59	56	37-130	6	20	
Fluoranthene	ug/L	.2	0.12	0.12	62	61	48-130	2	37	
Fluorene	ug/L	.2	0.098	0.088	49	44	42-130	10	48	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.13	0.12	64	59	46-130	7	20	
Naphthalene	ug/L	.2	0.098	0.092	49	46	33-130	6	53	
Phenanthrene	ug/L	.2	0.10	0.096	51	48	36-130	5	47	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

LABORATORY CONTROL SAMPLE & LCSD: 281908 281909

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Pyrene	ug/L	.2	0.13	0.13	64	63	51-130	2	33	
2-Fluorobiphenyl (S)	%-				48	46	25-130			
Terphenyl-d14 (S)	%-				90	90	36-140			

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

QC Batch: MSV/7401 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 4030054004, 4030054005

METHOD BLANK: 281885 | Matrix: Water
Associated Lab Samples: 4030054004, 4030054005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	04/02/10 07:45	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	04/02/10 07:45	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	04/02/10 07:45	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	04/02/10 07:45	
1,1-Dichloroethane	ug/L	<0.75	1.0	04/02/10 07:45	
1,1-Dichloroethene	ug/L	<0.57	1.0	04/02/10 07:45	
1,1-Dichloropropene	ug/L	<0.75	1.0	04/02/10 07:45	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	04/02/10 07:45	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	04/02/10 07:45	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	04/02/10 07:45	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	04/02/10 07:45	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	04/02/10 07:45	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	04/02/10 07:45	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	04/02/10 07:45	
1,2-Dichloroethane	ug/L	<0.36	1.0	04/02/10 07:45	
1,2-Dichloropropane	ug/L	<0.49	1.0	04/02/10 07:45	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	04/02/10 07:45	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	04/02/10 07:45	
1,3-Dichloropropane	ug/L	<0.61	1.0	04/02/10 07:45	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	04/02/10 07:45	
2,2-Dichloropropane	ug/L	<0.62	1.0	04/02/10 07:45	
2-Chlorotoluene	ug/L	<0.85	1.0	04/02/10 07:45	
4-Chlorotoluene	ug/L	<0.74	1.0	04/02/10 07:45	
Benzene	ug/L	<0.41	1.0	04/02/10 07:45	
Bromobenzene	ug/L	<0.82	1.0	04/02/10 07:45	
Bromochloromethane	ug/L	<0.97	1.0	04/02/10 07:45	
Bromodichloromethane	ug/L	<0.56	1.0	04/02/10 07:45	
Bromoform	ug/L	<0.94	1.0	04/02/10 07:45	
Bromomethane	ug/L	<0.91	1.0	04/02/10 07:45	
Carbon tetrachloride	ug/L	<0.49	1.0	04/02/10 07:45	
Chlorobenzene	ug/L	<0.41	1.0	04/02/10 07:45	
Chloroethane	ug/L	<0.97	1.0	04/02/10 07:45	
Chloroform	ug/L	<1.3	5.0	04/02/10 07:45	
Chloromethane	ug/L	<0.24	1.0	04/02/10 07:45	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	04/02/10 07:45	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	04/02/10 07:45	
Dibromochloromethane	ug/L	<0.81	1.0	04/02/10 07:45	
Dibromomethane	ug/L	<0.60	1.0	04/02/10 07:45	
Dichlorodifluoromethane	ug/L	<0.99	1.0	04/02/10 07:45	
Diisopropyl ether	ug/L	<0.76	1.0	04/02/10 07:45	
Ethylbenzene	ug/L	<0.54	1.0	04/02/10 07:45	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	04/02/10 07:45	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	04/02/10 07:45	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

METHOD BLANK: 281885 Matrix: Water

Associated Lab Samples: 4030054004, 4030054005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	04/02/10 07:45	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	04/02/10 07:45	
Methylene Chloride	ug/L	<0.43	1.0	04/02/10 07:45	
n-Butylbenzene	ug/L	<0.93	1.0	04/02/10 07:45	
n-Propylbenzene	ug/L	<0.81	1.0	04/02/10 07:45	
Naphthalene	ug/L	<0.89	5.0	04/02/10 07:45	
o-Xylene	ug/L	<0.83	1.0	04/02/10 07:45	
p-Isopropyltoluene	ug/L	<0.67	1.0	04/02/10 07:45	
sec-Butylbenzene	ug/L	<0.89	5.0	04/02/10 07:45	
Styrene	ug/L	<0.86	1.0	04/02/10 07:45	
tert-Butylbenzene	ug/L	<0.97	1.0	04/02/10 07:45	
Tetrachloroethene	ug/L	<0.45	1.0	04/02/10 07:45	
Toluene	ug/L	<0.67	1.0	04/02/10 07:45	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	04/02/10 07:45	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	04/02/10 07:45	
Trichloroethene	ug/L	<0.48	1.0	04/02/10 07:45	
Trichlorofluoromethane	ug/L	<0.79	1.0	04/02/10 07:45	
Vinyl chloride	ug/L	<0.18	1.0	04/02/10 07:45	
4-Bromofluorobenzene (S)	%-	80	70-130	04/02/10 07:45	
Dibromofluoromethane (S)	%-	85	70-130	04/02/10 07:45	
Toluene-d8 (S)	%-	86	70-130	04/02/10 07:45	

LABORATORY CONTROL SAMPLE & LCSD: 281886 281887

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.4	54.8	107	110	70-132	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	42.7	46.5	85	93	69-130	9	20	
1,1,2-Trichloroethane	ug/L	50	45.5	47.2	91	94	70-130	4	20	
1,1-Dichloroethane	ug/L	50	50.0	49.8	100	100	70-130	.4	20	
1,1-Dichloroethene	ug/L	50	47.5	48.1	95	96	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.0	54.8	106	110	70-134	3	20	
1,2-Dichloropropane	ug/L	50	46.4	46.6	93	93	70-130	.4	20	
Benzene	ug/L	50	45.2	46.8	90	94	70-131	4	20	
Bromodichloromethane	ug/L	50	58.5	58.1	117	116	70-130	.6	20	
Bromoform	ug/L	50	46.3	47.3	93	95	70-130	2	20	
Bromomethane	ug/L	50	44.2	47.1	88	94	23-200	7	20	
Carbon tetrachloride	ug/L	50	57.1	60.7	114	121	70-144	6	20	
Chlorobenzene	ug/L	50	50.2	51.1	100	102	70-130	2	20	
Chloroethane	ug/L	50	46.7	50.0	93	100	70-136	7	20	
Chloroform	ug/L	50	50.5	51.3	101	103	70-130	2	20	
Chloromethane	ug/L	50	36.0	37.0	72	74	54-148	3	20	
cis-1,2-Dichloroethene	ug/L	50	46.0	47.1	92	94	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	50.5	49.7	101	99	70-130	1	20	
Dibromochloromethane	ug/L	50	48.2	48.3	96	97	70-130	.3	20	
Ethylbenzene	ug/L	50	52.6	54.1	105	108	70-130	3	20	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

LABORATORY CONTROL SAMPLE & LCSD: 281886 281887

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	106	108	106	108	70-130	2	20	
Methylene Chloride	ug/L	50	47.1	48.1	94	96	66-130	2	20	
o-Xylene	ug/L	50	52.3	53.2	105	106	70-130	2	20	
Styrene	ug/L	50	46.9	47.9	94	96	70-130	2	20	
Tetrachloroethene	ug/L	50	53.2	54.9	106	110	75-130	3	20	
Toluene	ug/L	50	48.9	50.8	98	102	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	50	46.5	46.3	93	93	70-130	.6	20	
trans-1,3-Dichloropropene	ug/L	50	46.8	47.4	94	95	70-130	1	20	
Trichloroethene	ug/L	50	55.2	53.2	110	106	70-130	4	20	
Vinyl chloride	ug/L	50	36.5	38.4	73	77	63-141	5	20	
4-Bromofluorobenzene (S)	%-				82	83	70-130			
Dibromofluoromethane (S)	%-				84	87	70-130			
Toluene-d8 (S)	%-				85	84	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 281913 281914

Parameter	Units	4030073004 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	55.0	56.4	110	113	70-137	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	43.3	45.4	87	91	67-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	45.5	46.1	91	92	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	49.8	50.7	100	101	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	47.9	49.7	96	99	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	53.6	55.5	107	111	69-134	3	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	46.2	49.6	92	99	70-130	7	20	
Benzene	ug/L	<0.41	50	50	46.7	46.5	93	93	69-131	.5	20	
Bromodichloromethane	ug/L	<0.56	50	50	57.9	56.5	116	113	70-130	2	20	
Bromoform	ug/L	<0.94	50	50	45.1	43.5	90	87	68-130	3	20	
Bromomethane	ug/L	<0.91	50	50	47.4	46.1	95	92	22-200	3	20	
Carbon tetrachloride	ug/L	<0.49	50	50	60.2	58.8	120	118	70-144	2	20	
Chlorobenzene	ug/L	<0.41	50	50	50.5	50.4	101	101	70-130	.3	20	
Chloroethane	ug/L	<0.97	50	50	46.7	46.5	93	93	66-136	.5	20	
Chloroform	ug/L	<1.3	50	50	51.1	53.2	102	106	70-130	4	20	
Chloromethane	ug/L	<0.24	50	50	34.9	36.1	70	72	54-148	4	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	44.6	46.5	89	93	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	48.5	47.2	97	94	70-130	3	20	
Dibromochloromethane	ug/L	<0.81	50	50	48.6	46.4	97	93	70-130	5	20	
Ethylbenzene	ug/L	<0.54	50	50	52.2	53.3	104	107	70-130	2	20	
m&p-Xylene	ug/L	<1.8	100	100	101	101	101	101	70-130	.3	20	
Methylene Chloride	ug/L	<0.43	50	50	47.0	47.9	94	96	64-130	2	20	
o-Xylene	ug/L	<0.83	50	50	49.7	51.4	99	103	70-130	3	20	
Styrene	ug/L	<0.86	50	50	37.8	35.1	76	70	43-130	8	20	
Tetrachloroethene	ug/L	<0.45	50	50	53.4	53.2	107	106	70-130	.3	20	
Toluene	ug/L	<0.67	50	50	48.7	49.5	97	99	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	46.0	46.8	92	94	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	47.0	44.8	94	90	70-130	5	20	
Trichloroethene	ug/L	<0.48	50	50	52.4	54.3	105	109	70-130	4	20	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 281913 281914

Parameter	Units	4030073004 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	37.6	38.4	75	77	59-141	2	20	
4-Bromofluorobenzene (S)	%-						82	80	70-130			
Dibromofluoromethane (S)	%-						87	86	70-130			
Toluene-d8 (S)	%-						85	86	70-130			

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

QC Batch: MSV/7412 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4030054001, 4030054002, 4030054003

METHOD BLANK: 282531 Matrix: Water
Associated Lab Samples: 4030054001, 4030054002, 4030054003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	04/05/10 07:28	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	04/05/10 07:28	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	04/05/10 07:28	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	04/05/10 07:28	
1,1-Dichloroethane	ug/L	<0.75	1.0	04/05/10 07:28	
1,1-Dichloroethene	ug/L	<0.57	1.0	04/05/10 07:28	
1,1-Dichloropropene	ug/L	<0.75	1.0	04/05/10 07:28	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	04/05/10 07:28	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	04/05/10 07:28	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	04/05/10 07:28	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	04/05/10 07:28	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	04/05/10 07:28	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	04/05/10 07:28	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	04/05/10 07:28	
1,2-Dichloroethane	ug/L	<0.36	1.0	04/05/10 07:28	
1,2-Dichloropropane	ug/L	<0.49	1.0	04/05/10 07:28	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	04/05/10 07:28	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	04/05/10 07:28	
1,3-Dichloropropane	ug/L	<0.61	1.0	04/05/10 07:28	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	04/05/10 07:28	
2,2-Dichloropropane	ug/L	<0.62	1.0	04/05/10 07:28	
2-Chlorotoluene	ug/L	<0.85	1.0	04/05/10 07:28	
4-Chlorotoluene	ug/L	<0.74	1.0	04/05/10 07:28	
Benzene	ug/L	<0.41	1.0	04/05/10 07:28	
Bromobenzene	ug/L	<0.82	1.0	04/05/10 07:28	
Bromochloromethane	ug/L	<0.97	1.0	04/05/10 07:28	
Bromodichloromethane	ug/L	<0.56	1.0	04/05/10 07:28	
Bromoform	ug/L	<0.94	1.0	04/05/10 07:28	
Bromomethane	ug/L	<0.91	1.0	04/05/10 07:28	
Carbon tetrachloride	ug/L	<0.49	1.0	04/05/10 07:28	
Chlorobenzene	ug/L	<0.41	1.0	04/05/10 07:28	
Chloroethane	ug/L	<0.97	1.0	04/05/10 07:28	
Chloroform	ug/L	<1.3	5.0	04/05/10 07:28	
Chloromethane	ug/L	<0.24	1.0	04/05/10 07:28	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	04/05/10 07:28	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	04/05/10 07:28	
Dibromochloromethane	ug/L	<0.81	1.0	04/05/10 07:28	
Dibromomethane	ug/L	<0.60	1.0	04/05/10 07:28	
Dichlorodifluoromethane	ug/L	<0.99	1.0	04/05/10 07:28	
Diisopropyl ether	ug/L	<0.76	1.0	04/05/10 07:28	
Ethylbenzene	ug/L	<0.54	1.0	04/05/10 07:28	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	04/05/10 07:28	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	04/05/10 07:28	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

METHOD BLANK: 282531 Matrix: Water

Associated Lab Samples: 4030054001, 4030054002, 4030054003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	04/05/10 07:28	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	04/05/10 07:28	
Methylene Chloride	ug/L	<0.43	1.0	04/05/10 07:28	
n-Butylbenzene	ug/L	<0.93	1.0	04/05/10 07:28	
n-Propylbenzene	ug/L	<0.81	1.0	04/05/10 07:28	
Naphthalene	ug/L	<0.89	5.0	04/05/10 07:28	
o-Xylene	ug/L	<0.83	1.0	04/05/10 07:28	
p-Isopropyltoluene	ug/L	<0.67	1.0	04/05/10 07:28	
sec-Butylbenzene	ug/L	<0.89	5.0	04/05/10 07:28	
Styrene	ug/L	<0.86	1.0	04/05/10 07:28	
tert-Butylbenzene	ug/L	<0.97	1.0	04/05/10 07:28	
Tetrachloroethene	ug/L	<0.45	1.0	04/05/10 07:28	
Toluene	ug/L	<0.67	1.0	04/05/10 07:28	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	04/05/10 07:28	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	04/05/10 07:28	
Trichloroethene	ug/L	<0.48	1.0	04/05/10 07:28	
Trichlorofluoromethane	ug/L	<0.79	1.0	04/05/10 07:28	
Vinyl chloride	ug/L	<0.18	1.0	04/05/10 07:28	
4-Bromofluorobenzene (S)	%-	89	70-130	04/05/10 07:28	
Dibromofluoromethane (S)	%-	99	70-130	04/05/10 07:28	
Toluene-d8 (S)	%-	95	70-130	04/05/10 07:28	

LABORATORY CONTROL SAMPLE & LCSD: 282532 282533

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	55.2	54.5	110	109	70-132	1	20	
1,1,2,2-Tetrachloroethane	ug/L	50	54.2	52.7	108	105	69-130	3	20	
1,1,2-Trichloroethane	ug/L	50	54.2	53.7	108	107	70-130	1	20	
1,1-Dichloroethane	ug/L	50	60.7	59.1	121	118	70-130	3	20	
1,1-Dichloroethene	ug/L	50	49.7	48.0	99	96	70-130	3	20	
1,2-Dichloroethane	ug/L	50	55.4	54.0	111	108	70-134	2	20	
1,2-Dichloropropane	ug/L	50	59.2	56.3	118	113	70-130	5	20	
Benzene	ug/L	50	61.1	59.6	122	119	70-131	2	20	
Bromodichloromethane	ug/L	50	56.9	55.2	114	110	70-130	3	20	
Bromoform	ug/L	50	47.0	45.8	94	92	70-130	3	20	
Bromomethane	ug/L	50	46.7	47.9	93	96	23-200	3	20	
Carbon tetrachloride	ug/L	50	52.8	51.8	106	104	70-144	2	20	
Chlorobenzene	ug/L	50	53.9	52.8	108	106	70-130	2	20	
Chloroethane	ug/L	50	52.9	51.6	106	103	70-136	2	20	
Chloroform	ug/L	50	58.0	56.0	116	112	70-130	3	20	
Chloromethane	ug/L	50	45.2	44.6	90	89	54-148	1	20	
cis-1,2-Dichloroethene	ug/L	50	57.4	56.8	115	114	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	52.1	50.7	104	101	70-130	3	20	
Dibromochloromethane	ug/L	50	44.9	44.3	90	89	70-130	1	20	
Ethylbenzene	ug/L	50	58.2	56.7	116	113	70-130	3	20	

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QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

LABORATORY CONTROL SAMPLE & LCSD: 282532 282533

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	116	113	116	113	70-130	3	20	
Methylene Chloride	ug/L	50	51.8	50.5	104	101	66-130	2	20	
o-Xylene	ug/L	50	56.7	55.3	113	111	70-130	3	20	
Styrene	ug/L	50	52.1	51.0	104	102	70-130	2	20	
Tetrachloroethene	ug/L	50	54.2	52.7	108	105	75-130	3	20	
Toluene	ug/L	50	57.5	56.7	115	113	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	56.4	55.2	113	110	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	47.9	47.3	96	95	70-130	1	20	
Trichloroethene	ug/L	50	56.2	54.3	112	109	70-130	3	20	
Vinyl chloride	ug/L	50	43.4	43.6	87	87	63-141	.5	20	
4-Bromofluorobenzene (S)	%-				95	95	70-130			
Dibromofluoromethane (S)	%-				101	98	70-130			
Toluene-d8 (S)	%-				95	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 282641 282642

Parameter	Units	4030117022 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	53.8	55.0	108	110	70-137	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	51.8	51.5	104	103	67-130	.5	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	53.6	53.0	107	106	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	59.1	60.2	118	120	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	49.6	49.2	99	98	70-130	.8	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	54.4	54.1	109	108	69-134	.5	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	58.5	58.1	117	116	70-130	.7	20	
Benzene	ug/L	<0.41	50	50	60.7	60.7	121	121	69-131	.02	20	
Bromodichloromethane	ug/L	1.5	50	50	57.2	57.0	111	111	70-130	.2	20	
Bromoform	ug/L	<0.94	50	50	42.5	43.8	85	88	68-130	3	20	
Bromomethane	ug/L	<0.91	50	50	47.0	49.3	94	99	22-200	5	20	
Carbon tetrachloride	ug/L	<0.49	50	50	51.0	51.5	102	103	70-144	1	20	
Chlorobenzene	ug/L	<0.41	50	50	54.4	54.0	109	108	70-130	.7	20	
Chloroethane	ug/L	<0.97	50	50	52.3	52.1	105	104	66-136	.3	20	
Chloroform	ug/L	2.8J	50	50	59.6	59.9	113	114	70-130	.6	20	
Chloromethane	ug/L	<0.24	50	50	42.2	42.9	84	86	54-148	2	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	57.6	57.5	115	115	70-130	.3	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	50.4	50.6	101	101	70-130	.3	20	
Dibromochloromethane	ug/L	5.7	50	50	44.7	44.3	78	77	70-130	.8	20	
Ethylbenzene	ug/L	<0.54	50	50	58.8	58.2	118	116	70-130	1	20	
m&p-Xylene	ug/L	<1.8	100	100	117	116	117	116	70-130	.9	20	
Methylene Chloride	ug/L	<0.43	50	50	50.8	51.0	102	102	64-130	.4	20	
o-Xylene	ug/L	<0.83	50	50	57.5	56.7	115	113	70-130	2	20	
Styrene	ug/L	<0.86	50	50	52.7	51.7	105	103	43-130	2	20	
Tetrachloroethene	ug/L	<0.45	50	50	55.2	53.9	110	108	70-130	2	20	
Toluene	ug/L	<0.67	50	50	59.0	57.8	117	115	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	55.8	55.6	112	111	70-130	.4	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	45.9	46.3	92	93	70-130	.8	20	
Trichloroethene	ug/L	<0.48	50	50	55.8	55.5	112	111	70-130	.6	20	

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

QUALITY CONTROL DATA

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 282641 282642

Parameter	Units	4030117022 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	42.7	42.2	85	84	59-141	1	20	
4-Bromofluorobenzene (S)	%-						95	94	70-130			
Dibromofluoromethane (S)	%-						99	98	70-130			
Toluene-d8 (S)	%-						95	96	70-130			

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

QUALIFIERS

Project: 0054238 FIRESTONE-MUSKEGO
Pace Project No.: 4030054

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/2517

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

ANALYTE QUALIFIERS

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

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

Pace Analytical® KM
www.pacelabs.com

CHAIN OF CUSTODY

4030054

(Please Print Clearly)

Company Name:	PSI
Branch/Location:	Pewaukee
Project Contact:	Matt Dahlem
Phone:	262-347-0898
Project Number:	0054238
Project Name:	Firestone - Muskego
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:	
Mail To Address:	
Invoice To Contact:	Matt Dahlem
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*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

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	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	VOC	PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
							B	A			
001	TW-11	3/30/10	230	GW			X	X		1-1Lag A 3-40ml B	
002	TW-12	↓	245	↓			X	X		↓	
003	TW-5	↓	305	↓			X	X		↓	
004	TW-2	↓	445	↓			X			↓	
005	Trip Blank	—	—	W			X			2-40ml B	

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]	3/31/10 0850	D. [signature]	3/31/10 0850
D. [signature]	3/31/10 1700		
CS Logistics	4/1/10 0815	K Mueike	4/1/10 0815

PACE Project No. 4030054

Receipt Temp = ROI °C

Sample Receipt pH ~~OK / Adjusted~~

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 08/14/06

ORIGINAL

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

Pace Analytical

Sample Condition Upon Receipt

Client Name: PSI Project # 4030054

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other _____

Tracking #: _____

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None Other

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

Cooler Temperature ROI Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

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

Person examining contents:
Date: 4-1-10
Initials: KM

		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.
-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: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
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: LW **Date:** 4/1/10

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)