# midwest engineering services, inc.



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October 19, 2004

MPL Realty c/o Mr. William Puchner W302 N6015 Spence Road Hartland, WI 53029

Subject: ERP Site Assessment Report

Former Wire and Metal Specialties 4021 South Kinnickinnic Avenue

St. Francis, Wisconsin MES Project No. 7-21058-2 BRRTS #: 02-41-184461

FID #: 241039920

Dear Mr. Puchner,

In accordance with your request, Midwest Engineering Services, Inc. (MES) has completed an Environmental Repair Program (ERP) Site Assessment at the above referenced property. Two (2) copies of the report summarizing the activities and test results are enclosed.

Should you have any questions regarding the contents of this report, or if we could be of any further assistance on this or other projects, please call at any time. Midwest Engineering appreciates the opportunity to be of service.

Very truly yours,

MIDWEST ENGINEERING SERVICES, INC.

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Patrick J. Patterson, P.E., P.G.

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Region Manager

cc: Mr. Andrew Boettcher (WDNR - Southeast Region)

# **ERP SITE ASSESSMENT REPORT**

Former Wire and Metal Specialties
4021 South Kinnickinnic Avenue
St. Francis, Wisconsin

Prepared for
MPL Realty
W302 N6015 Spence Road
Hartland, Wisconsin 53029

MES Project No. 7-21058-2 October 19, 2004

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#### INTRODUCTION

## General

This report presents the findings and conclusions of the ERP Site Assessment (Assessment) performed at the property located at 4021 South Kinnickinnic Avenue, in the City of St. Francis, Wisconsin. This Assessment was performed for MPL Realty (MPL), at the request and authorization of Mr. William Puchner (MPL) and Mr. Andrew Morris (MPL).

# Purpose

The purpose of this ERP Site Assessment was to further evaluate the nature and extent of affected soil and groundwater within the subject property (and beyond, as necessary). The affected soil and groundwater was previously identified during subsurface exploration and investigative activities performed and reported by Key Engineering Group, Inc. (Key) and HSI GeoTrans, Inc. (HSI).

# <u>Scope</u>

The scope of services for this Site Assessment included the performance of six (6) soil borings, the installation of two (2) groundwater monitoring wells and one (1) piezometer on the subject property, and the performance of two (2) soil borings and installation of one (1) groundwater monitoring well on a neighboring vacant lot owned by WE Energies (WE). The services also included field screening of the soil samples obtained from the borings; laboratory analysis of selected soil samples and groundwater samples; an analysis of the data obtained; and the preparation of this report. This Site Assessment was structured specifically to address the presence of constituents, which were previously encountered on these properties. It is not intended to be, nor should it be construed as, an all-inclusive search for hazardous substances. The soil and groundwater samples were obtained and analyzed in general accordance with WDNR guidelines existing at the time.

## <u>Authorization</u>

Authorization to perform this Site Assessment was in the form of a signed acceptance copy of MES Proposal No. 7-2239, signed on June 19, 2002, and the extended scope and cost estimate dated February 3, 2004, signed on February 15,2004. The general conditions for the performance of the work were referenced in the proposal and subsequent extended scope and cost estimate. This Site Assessment report has been prepared on behalf of, and exclusively for the use of MPL Realty. The information contained in this Site Assessment report may not be relied upon by any other party without the express written consent of MES and MPL Realty, and acceptance by such parties of MES' General Conditions.

#### SITE LOCATION AND DESCRIPTION

The subject site is the former Wire and Metal Specialties Company property, located at 4021 South Kinnickinnic, in St. Francis, Wisconsin. The site is currently owned by MPL Realty Property (MPL) and occupied by the Badger Plating Company (Badger). It is situated within the Northeast ¼ of the Northeast ¼ of Section 22, Township 6 North, and Range 22 East of Milwaukee County. The location of the subject site is indicated on the attached Figure 1, and in the enclosed environmental reports.

The subject site is currently occupied by a 15,171 square foot, slab-on-grade structure that is occupied and utilized by Badger Plating Company for the assembly and storage of metal parts and components. It is understood that no metal plating activities are performed at the subject site. In addition, the property is zoned M1 (light manufacturing) which does not allow for metal plating operations. The primary activities performed at the subject site are buffing, storage and assembly of metal parts. It is understood that the current tenant (Badger) intends to purchase the property, and the intended future use and zoning of the site will remain unchanged. The site and surrounding properties are serviced with natural gas and electric utilities, and municipal water and wastewater systems. No known storage tanks for petroleum products or chlorinated solvent products are currently present within the subject site.

The topography of the subject site appears relatively level. As indicated on Figure 1, the ground surface elevation of the site is approximately 670 feet above mean sea level. Also, as indicated on Figure 2 in the Appendix, the subject site is occupied by the main facility, two storage sheds (slab-on-grade structures), paved driveway and parking lot, and paved loading dock area. A small grass covered area and landscape feature is present within the northeast portion of the site.

No public or private water wells are indicated to be located within 1,000 feet of the site, and no rivers, creeks, ponds, lakes, or wetlands are located nearby. A railroad right-of-way and associated buried signal lines are located immediately adjacent to the west of the subject property. Other utilities located within the area of the railroad right-of-way include: buried high-pressure natural gas pipeline, buried communications cable, and tower mounted high power electric lines. This adjoining railroad and utility right-of-way is also moderately wooded and overgrown with vegetation, and is generally inaccessible to standard vehicles.

The northern adjoining property (at 4005 South Kinnickinnic Avenue) is currently zoned M-1, however, the property is occupied by an apparent single-family residence and garage. Additionally, the current occupant utilizes the property for vehicle storage and appears to use the garage for vehicle maintenance activities. The garage and vehicles are located about five to ten feet beyond the northwest portion of the subject site. South Kinnickinnic Avenue is located immediately adjacent to the east of the site. A Citgo service station (and former LUST site) is located immediately adjacent to the south, at 4045 South Kinnickinnic Avenue.

Based on a review of a recent property survey map of the subject site, the existing north property boundary of the subject site extends approximately 5 feet beyond the existing building. Also, the west property boundary line is located about 2 feet beyond the west wall of the building. It should be recognized that the west side of the subject and the adjoining railroad right-of-way property is wooded and slopes down steeply about 10 to 12 feet towards a drainage ditch and utility right-of-way corridor. Also, the opposite side of the drainage ditch and utility corridor slopes steeply up about 10 to 15 feet to the railroad track bed.

Access to this western adjoining railroad right-of-way property to perform any additional soil or groundwater sampling (if deemed necessary) is not possible with standard subsurface exploration equipment. In addition, a request to access this property to perform any additional exploration (if necessary) was submitted to the railroad owner (Union Pacific). However, Union Pacific's requirements for access approval included a substantial financial commitment (beyond the total cost of any likely project work) and an adverse liability risk exposure. As such, access to the railroad right-of-way was not performed during this Assessment.

During the Assessment activities reported herein, MES was able to access the northern portion of the subject site. However, access with standard subsurface exploration equipment was substantially limited, and it was necessary for MES to negotiate approval for limited access rights onto the northern adjacent property in order to access the north portion of the subject site.

## PROJECT BACKGROUND

## Southern Adjacent Property LUST Site Investigation

An existing Citgo service station, located immediately adjacent to the south of the subject property, is the site of the former Badger Tire and Auto (BTA) gas station, which is listed in the WDNR LUST database as a LUST case. The WDNR approved closure of this LUST site in January 1998. The WDNR activity number for this LUST site is 03-41-002088, and the WDNR FID number is 241781870.

Based on an MES review of WDNR records, it is understood that the owner of the BTA site contracted K. Singh & Associates, Inc. (KSA) in 1992 to provide environmental consulting services for the LUST site activities. According to the reviewed KSA reports, the BTA site appears to have been the source of subsurface petroleum impacts that migrated northward from the BTA site onto the southern portion of the subject Wire and Metal Specialties site. From 1993 to 1998, KSA reported the groundwater flow direction to have been towards the north (and towards the subject site). On this basis, groundwater flow was indicated by KSA to be the primary transport mechanism by which petroleum impacts migrated onto the subject site.

As part of the previous BTA site remediation activities conducted by KSA, an area was excavated from within the south and southeast portions of the subject site (former Wire and Metal Specialties) to a depth of about 15 to 16 feet. This remedial excavation area was approximately 50 feet wide and extended about 60 feet onto the subject site. KSA estimated that approximately 950 tons of affected soil were removed from this excavation area and disposed at a landfill (uncontaminated soils were separated and replaced). KSA also reported that eight soil confirmation samples were collected from the excavation area and laboratory analysis indicated that seven of these samples were found to contain residual petroleum compounds. Three of these samples contained benzene concentrations that exceeded the residual contaminant level (RCL) for soil established by the Wisconsin Department of Natural Resources (WDNR) NR720. In general, the sample locations that exceed the benzene RCL were along the north and west sidewalls, and from base of the excavation. Further excavation activities were not performed on the subject site due to the proximity of the structural footings and foundations of the existing storage sheds.

Two (2) groundwater monitoring wells (MW-7 and MW-8) were installed on the subject site by KSA as part of the former BTA site investigation activities. Well MW-7 is positioned closest to the northern extent of the previous remedial soil excavation area. MW-8 was formerly located in a grass covered area on the northeast portion of the subject site. However, MW-8 is no longer present and a landscape feature is present over the former location. The location of MW-7 is indicated on Figure 2 in the Appendix. The former location of MW-8 was in the general vicinity of the recently installed MW-11, indicated on Figure 2.

KSA reports indicate that groundwater was sampled from MW-7 and MW-8 between 1993 and 1998. Benzene concentrations detected at well MW-7 during these samplings have previously exceeded the WDNR Preventive Action Limit (PAL) and Enforcement Standard (ES) established under NR140. However, subsequent sample analyses performed from June 2000 through August 2004 indicated no detectable benzene concentrations at MW-7. Additionally, from 1995 to 2000, no significant VOC concentrations were reported within samples collected from the former MW-8.

VOC analysis of groundwater samples from these wells was performed by other consultants from 1999 to 2000, and by MES from 2002 to 2004. The laboratory analyses results are presented in following sections of this report. In addition, groundwater analysis results are summarized on Table 1, located in the Appendix.

## 1996 Phase I and Limited Phase II Environmental Site Assessments

In 1996, Key Environmental Group, Ltd. (KEY) was contracted by a prospective buyer to perform a Phase I Environmental Site Assessment (ESA) of the subject Wire and Metal Specialties site. The results of the Phase I ESA identified an apparent spill within the southwest portion of the property. As a result, KEY performed a limited Phase II ESA in the vicinity of the apparent spill. KEY reported that laboratory analysis of soil samples indicated that an area of soils was impacted with volatile organic compounds (VOCs). KEY reported

that the VOCs were representative of constituents that are typically associated with both chlorinated solvents and petroleum products.

In February 1998, KEY coordinated remedial actions to remove the chlorinated solvent affected soils. In a KEY report to the WDNR titled, "Notification of Spill and Case Closure Request", dated March 26, 1998, it was indicated that a total of approximately 13 tons of impacted soil was excavated and removed from the subject site to a depth of about 5.5 feet below ground surface (bgs). KEY indicated that the relatively shallow depth of the soil impact suggested that groundwater (identified by KEY as being approximately 8 to 9 feet bgs) had not likely been impacted by this spill. As such, the WDNR issued a site closure letter for this spill site on October 29, 1998. The approximate location and extent of the spill and excavation area is indicated on Figure 2, located in the Appendix.

## 1999 Phase I Environmental Site Assessment

In 1999, KEY was contracted by another prospective purchaser to perform another Phase I ESA at the subject site and to re-evaluate the previously mentioned environmental conditions on and near the subject site. According to KEY's 1999 Phase I ESA report, chlorinated solvents were used on the site to clean fabricated metal parts, and the waste solvent material was then collected for off-site disposal. In addition, KEY concluded the subject site had been impacted by contaminants from the apparent spill (discussed in the previous section of this report), and from the previously mentioned southern adjacent LUST site. KEY reported that the on-site spill had been successfully remediated. KEY also reported that residual petroleum affected soil and groundwater (from the BTA site) remained on-site and contained benzene at levels above the WDNR NR720Residual Contaminant Level (RCL) of 5.5 micrograms per kilogram (ug/kg). It was KEY's opinion that the residual soil and groundwater impacts were related to contaminant migration onto the site from the southern adjacent property via groundwater.

# 1999 Limited Phase II Environmental Site Assessment

Based on the results of the January 1999 Phase I ESA, in March 1999 KEY performed a limited Phase II ESA to evaluate the potential for residual subsurface impacts at the subject site. This limited Phase II ESA included the performance of four soil probes, collection of selected soil samples, laboratory chemical analysis of the soil samples, and evaluation of the data. Additionally, groundwater samples were collected from the existing on-site monitoring well MW-7.

The laboratory results of soil samples collected from the site indicated the presence of VOCs that are typically associated with petroleum and chlorinated solvent products in two of the four samples. The detected VOC concentrations were below State standards, where established at the time.

The analytical results of a groundwater sample from MW-7 indicated that Benzene and chlorinated VOCs were detected in this well. The detected concentration of benzene and

Trichloroethane (TCE) exceeded their respective NR140 Enforcement Standard (ES). The detected concentrations of 1,2-Dichloroethane (DCA), 1,1-Dichloroethene (DCE), and 1,1,1-Trichloroethane (TCA) exceeded their respective NR140 Preventive Action Limits (PALs). KEY concluded that chlorinated solvent constituents found in the groundwater were generally consistent with those detected in on-site soils and known to be historically used at the site. KEY recommended that additional exploration be performed to evaluate and define the extent of the chlorinated compounds.

# 1999 Site Investigation

In July 1999, HSI GeoTrans, Inc. (HSI) was contracted by MPL Realty Property to further define the nature and extent of the reported VOC impacts to both soil and groundwater at the site. The site investigation consisted of advancing 20 soil probe borings (GP1 through GP-20) across the site and the installation and sampling of two new monitoring wells (MW-101 and MW-102). These activities are described in an HSI report dated September 9, 1999. Also, the locations of these boreholes and wells are indicated on the HSI Figure 2-2 (dated 9/7/99), located in the Appendix.

HSI reported that the analytical results of soil samples indicated the detected VOC constituents in soil were associated with chlorinated solvents. The results indicated that 1,1,1-TCA, Tetrachloroethene (PCE) and TCE were the primary constituents that were detected, in concentrations ranging up to 5,100 ug/kg, 13,100 ug/kg (PCE), and 29,000 ug/kg (TCE). The approximate lateral extent of soils affected by PCE, TCE and 1,1,1-TCA is indicated on HSI Figures 5-1, 5-2 and 5-3 (respectively), located in the Appendix. Additionally, HSI reported that the breakdown products of these compounds (Dichloroethanes [DCA] and Dichloroethanes [DCE]) were also present at comparatively lower concentrations in some samples. Also, some residual petroleum related compounds were detected at relatively low concentrations in samples collected from GP-1, GP-7, GP-15, GP-16, GP-19, and GP-20. Each of these six boreholes were located near or below a shed located within the south portion of the site (near the former LUST site excavation associated with the BTA site).

HSI reported that the laboratory results indicated only one soil sample contained compounds that exceeded an established NR720 RCL for VOCs. This sample was collected from GP-20 (8 to 10 foot interval), where 1,2-DCA (a former gasoline additive) was detected at a level which exceeded its RCL of 4.9 ug/kg.

Based on the analytical results, HSI indicated that the greatest VOC concentrations detected in soils were located within the southwest portion of the site, between the main building and the two sheds. The primary zone of impacted soil was detected from 0 to 6 feet bgs.

Additional soil samples were collected at GP-20 from interval depths of 0-2 feet, 8-10 feet, and 18-20 feet to further evaluate the vertical extent of the affected area. The greatest VOC concentrations in the sample collected from GP-20 were detected at a depth of 8 to 10 feet (40 ug/kg of 1,1-DCA and 160 ug/kg of 1,1,1-TCA).

During this site investigation, HSI installed two new temporary monitoring wells (MW-101 and MW-102) and collected groundwater samples from these two new wells and the previously existing MW-7 and MW-8. MW-101 was installed at a downgradient location, and MW-102 was located within the affected soil zone. The laboratory analysis results of the groundwater samples indicated the presence of both chlorinated solvent and petroleum VOC constituents within water samples collected from the site. Detected concentrations of benzene (at MW-102) and TCE (at MW-7 and MW-102) exceeded their established WDNR NR140 ESs. Also, at MW-7 and MW-102, detected concentrations of 1,2-DCA, 1,1-DCE, PCE, 1,1,1-TCA and naphthalene exceeded their PALs. HSI reported that the apparent shallow groundwater flow within the area of the site was initially in an easterly direction, however, subsequent monitoring indicated a north to northwest flow direction.

## 2000 Additional Site Investigation Activities

In 2000, HSI expanded the scope of previous investigative activities at the subject site to include additional soil probe sampling, installation of two additional monitoring wells (MW-103 and MW-104), and soil and groundwater sample collection and analysis. MW-103 was installed in a sidegradient location, and MW-104 was located downgradient. These activities are described in an HSI report dated November 13, 2000. Also, the locations of these boreholes and wells are indicated on the HSI Figure 2-2 (dated 11-9-00), located in the Appendix.

The depth at which groundwater was encountered varied across the site from about 8 to 10 feet bgs. Although HSI indicated that the observed shallow groundwater flow beneath the site at that time was towards the west-northwest, previous observations indicated an easterly groundwater flow direction. On this basis, HSI suggested that there are likely some seasonal fluctuations present in the near surface groundwater flow conditions. No significant expansion of the plume was apparent at that time, and it appeared likely that the presence of the existing building and paved surface over most of the site area had served as an effective impermeable barrier cap to reduce surface water infiltration.

According to HSI, the primary area of affected soil at the subject site is situated within the southwest portion of the site, extending from near the ground surface to approximately 8 feet bgs. It is located in an area that extends from beneath the metal sheds to beneath the southern portion of the facility. HSI indicated that the greatest VOC concentrations in soil were detected beneath the asphalt paved area between the metal sheds and the main building. Also, a secondary area of chlorinated solvent related impact to soil was detected in an area located approximately 20 feet north of the primary area of impact, situated beneath the west-central portion of the main building. This is reported to be in the general vicinity of a former degreaser operation.

## 2002 Environmental Records Review

In 2002, MPL Realty contracted MES to perform a review of the environmental records (summarized in the previous sections) for the past activities at the subject site. It is

understood that, at that time, MPL believed that the regulatory status of the subject site was considered by the WDNR to be an unresolved, or "open" Environmental Repair Program (ERP) case. In addition, it is understood that a proposed property transaction with the current tenant was contingent on the resolution of the previously reported environmental concerns and the WDNR providing closure of the ERP case. As such, MPL requested MES to review the previous records, collect and analyze groundwater samples from the previously existing monitoring wells at the subject site, and provide recommendations to achieve WDNR closure of the ERP case.

Based on the reviewed reports from KSA, KEY, HSI and the available WDNR records, it was apparent that the WDNR opened an ERP case for the subject site on March 1, 1998. This ERP case was opened based on the presence of chlorinated solvent contaminated shallow soils that were encountered within the southwest portion of the property in 1996 and 1997, and reported to the WDNR in 1998. These shallow chlorinated contaminated soils were reportedly excavated and removed from the subject site in February 1998. In a letter dated October 29, 1998, the WDNR closed the ERP case at the subject site with no further action required. At the time of MES's record review, no additional WDNR information was available regarding the status or activities at the subject site after October 29,1998.

Considering the apparent lack of WDNR records after October 1998, MES contacted a WDNR representative (Mr. Andrew Boettcher). According to Mr. Boettcher, no reports or correspondence regarding the subsurface assessment and site investigation activities performed at the subject site after October 1998 were submitted to the WDNR. As such, at that time, the WDNR was not aware of the activities performed in 1999 and 2000, and the status of the ERP case for subject site at that time remained closed with no further action required. MPL was informed of the WDNR status, and considering that the proposed property transaction was contingent on the resolution of the environmental concerns at the subject site, MPL directed MES to provide the 1999 and 2000 reports to the WDNR, and requested that the WDNR re-open the ERP case in order to review the previous findings and then consider the ERP case for closure.

On October 7, 2002, MES provided the WDNR with a letter report titled, "Supplemental ERP – Spill Case Closure Review" (MES Project No. 7-21058). Copies of the previous KEY and HSI reports were attached. Subsequently, the WDNR opened the ERP case, reviewed the reports, and requested that additional rounds of groundwater monitoring and sample analysis be performed to further evaluate the current subsurface conditions. Also, the WDNR requested that additional groundwater monitoring wells and piezometers be installed and sampled to further evaluate the northern and western extent of chlorinated compounds in the groundwater. The field and laboratory procedures and results of these ERP Site Assessment activities are described in the following sections of this report.

#### **EXPLORATION AND FIELD PROCEDURES**

## Scope Summary

A total of four (4) soil borings were performed on the subject property (designated B-1 through B-4), and two (2) soil borings were performed on a neighboring vacant lot located north of the subject site (designated B-5 and B-6). Soil borings B-1, B-2 and B-3 were converted to groundwater monitoring wells (designated MW-9, MW-10 and MW-11, respectively), and boring B-4 was converted to a groundwater monitoring piezometer (PZ-1). Also, boring B-5 performed on the neighboring northern vacant lot, was converted to a groundwater monitoring well (MW-12). Soil boring B-6 was planned to be converted to a piezometer (designated as PZ-2), and was located near ("nested" with) groundwater monitoring well MW-12 (B-5). However, no groundwater was encountered at the location of B-6 (PZ-2), and the boring was properly abandoned upon completion. These borings, wells and piezometer were installed to obtain the field and laboratory data utilized in the analysis and evaluation of the groundwater conditions in the vicinity of the subject site. The locations and depths of the wells and piezometer were generally based upon information from previous borings and wells completed by KEY and HSI, and the additional groundwater information requested by the WDNR.

Considering the previously reported information regarding the soil conditions at the subject site, the borings for MW-9, MW-10 and MW-12 were advanced without collection of soil samples in order to expedite the construction of the monitoring wells. However, at boring locations for MW-11(B-3), PZ-1(B-4) and PZ-2(B-6) soil samples were secured at continuous intervals by split-spoon sampling methods and screened in the field with a Photoionization Detector (PID) for indications of the presence of volatile organic vapor emissions. Companion soil samples were obtained and submitted to a laboratory for analysis to document the observed soil conditions. Based upon the previous analytical test results of soil samples, the selected soil samples collected during this Assessment were subjected to analysis for the presence of VOCs. Additionally, MES re-developed three (3) previously existing groundwater monitoring wells at the subject site (designated MW-7, MW-102 and MW-103), and developed the recently installed wells and piezometer. Subsequently, groundwater samples were collected from each of these wells and piezometer, and submitted to a laboratory for analysis of VOCs.

## Field Exploration

The six (6) borings were completed during separate phases of this Assessment performed on August 7, 2003, January 8, 2004, February 26, 2004 and July 26, 2004. In general, most of the borings were completed to depths of 15 to 19 feet below ground surface (bgs), and piezometer PZ-1 was completed at 27 feet bgs. However, B-6 (PZ-2) located on the vacant WE Energies lot to the north of the subject property was terminated at approximately 45 feet bgs, due to the lack of a groundwater aquifer encountered in clay soils 30 feet below the depth of MW-12 (B-5). Three (3) groundwater monitoring wells were installed at the subject site in boring locations B-1, B-2 and B-3, and one (1) piezometer was installed on the subject site in B-4. Also, one (1) groundwater monitoring well was installed on a vacant WE Energies

property, located about 100 feet northwest of the subject property. The locations are shown on Figures 2 and 3 located in the Appendix.

The borings were performed by Midwest Engineering Associates, Inc. (MES), of Waukesha, Wisconsin, utilizing a truck or track-mounted rig to advance the holes. Where necessary, soil representative samples were obtained by split-spoon method continuously to the completion depth of the borings. All soil samples were visually classified in general accordance with the Unified Soil Classification System (ASTM D-2488-75). The monitoring wells were also installed by MES with a truck or track-mounted drilling rig utilizing 4½-inch I.D. hollow stem augers to advance the boreholes.

# **Equipment Cleaning Procedures**

The sampling tools were cleaned with an Alconox and potable water wash in between each sample interval. The cleaning of the auger was performed with a high pressure, hot water (HPHW) sprayer prior to beginning the field operations, and clean augers were used at each borehole location. These procedures were performed to reduce the potential for cross-contamination between borings and sample locations.

# Field Volatile Vapor Emission Screening

Soil samples collected during the drilling activities were screened for volatile organic vapor emissions in the field with an Hnu 11.7 eV Model PI-101 Photoionization Detector (PID). The PID is an electronic instrument that measures the relative concentration of volatile organic vapor emissions in the headspace of a container. The response of the instrument is dependent upon volatility, temperature, and the ionization potential of the compounds measured. The meter serves as one tool in selecting samples for analytical testing and estimating zones of more highly affected soil, as it only gives a relative indication of the presence of volatile vapor emissions. It cannot quantify concentrations of individual compounds.

Each soil sample was placed in a clean jar; the jar was then covered with a foil layer, and sealed with a Teflon cap. Subsequently, the sample was screened with the PID. Prior to the PID screening, the PID was calibrated in the field using Hnu Systems, Inc. span gas. The date of the latest factory calibration of the PID is October 21, 2003. The soil samples were permitted to equilibrate to at least 70 degrees Fahrenheit for a period of at least 15 minutes, based upon the ambient outdoor temperature. The screening was then performed by inserting the probe through the foil seal and measuring the headspace. The results of the vapor emission screening are shown on the individual boring logs, located in the Appendix.

## Soil Analysis

The companion soil samples for chemical analyses were selected from the borings based upon visual and olfactory observations, and the PID screenings, to document the encountered

soil conditions. The samples were subjected to laboratory analysis for the presence of Volatile Organic Compounds (VOCs).

The samples for the VOC analyses were weighed in the field with a small digital scale, and approximately 25 to 35 grams of soil were transferred into clean, laboratory prepared jars. The jars for VOC analysis also contained 25 milliliters of methanol preservative. The analytical samples were placed on ice, chain of custody procedures were initiated, and the samples were submitted to Great Lakes Analytical of Oak Creek, Wisconsin.

# Monitoring Well and Piezometer Installation

The groundwater monitoring wells and piezometer were installed in general accordance with NR141. The well and piezometer construction consisted of sections of 2 inch diameter, Schedule 40 PVC screen with 0.010 inch factory cut slots, and 2 inch diameter Schedule 40 PVC flush threaded riser pipe extending to ground level (for flush mount cover) or about 3 feet above the ground surface (for stick-up casing). Locking, expandable caps were used to seal the top of the PVC, and steel flush-mount or stick-up protective casings (as appropriate) were placed over the top of the PVC riser pipe, and secured with locks.

Clean coarse sand backfill was utilized as a filter medium around the screened PVC to a level about one foot above the top of the screened section. The sand backfill was placed into the annular space between the auger and PVC during progressive withdrawal of the auger. A one foot layer of fine sand was placed above the sand filter medium. A seal of bentonite chips filled the annular space above the fine sand, and was used to seal the surface around the stick-up covers, and concrete was used around the flush-mount covers. The well construction and other related details are shown on the Monitoring Well Construction Forms (Form 4400-113A), located in Appendix A.

## Well and Piezometer Development

The monitoring wells and piezometer were developed after construction by alternately surging and purging with separate disposable Teflon<sup>®</sup> bailers. The well development data and other pertinent details are shown on Well Development Forms 4400-113B, included in Appendix A.

## Groundwater Sampling

Subsequent to development, and after allowing the groundwater in the wells to recover, groundwater samples were collected utilizing a separate, single-use disposable Teflon® bailer at each monitoring well and piezometer. The samples for VOC analysis were placed in laboratory prepared 40 milliliter vials containing Hydrochloric Acid preservative. The sample containers were placed on ice and standard chain of custody procedures were utilized. The groundwater samples from the monitoring wells and piezometer were tested by Great Lakes Analytical, of Oak Creek, Wisconsin.

# Ground Surface and Groundwater Well Elevations

Ground surface elevations at each of the well locations, and the elevation of the top of each monitoring well PVC riser pipe were determined by MES personnel using conventional leveling techniques. The northern bolt on the bottom flange of the fire hydrant located east of the subject property (across South Kinnickinnic Avenue), was used as a benchmark, with an assigned reference elevation of 100.00 feet. These relative elevations are shown in the Groundwater Observations section of this report.

Groundwater levels in the boreholes were noted during drilling operations when possible, and measurements were taken in the monitoring wells and piezometer prior to development and sampling. The measurements are shown in the Groundwater Observations section of this report, and on the boring logs and well development forms.

## **DESCRIPTION OF SUBSURFACE CONDITIONS**

#### General

A description of the subsurface conditions encountered at the boring locations is shown on the logs in the Appendix. The lines of demarcation shown on the logs represent an approximate boundary between the various soil classifications, but the transition is likely to be more gradual. It must be recognized that the soil descriptions are considered representative for the specific location, and that variations may occur between and beyond the sampling intervals and boring locations. A summary of the major soil profile components is described in the following paragraphs.

## Soil Conditions

The ground surface at the majority of boring locations was generally covered with 2 to 4 inches of topsoil. However, MW-10 (B-2) was installed within a concrete paved walkway (about 6 inches thick) along the west side of the facility. In general, the underlying soils were comprised of approximately 3 to 10 feet (from east to west) of fill and possible fill soils, generally consisting of silt and clayey silt to silty clay, with a little to some sand and gravel. Typically, the underlying natural soils are brownish-gray silty clay to gray clay, with some silt or sand seams, to the termination depth of the boring. However, at PZ-1(B-4), buried topsoil was encountered at about 5-1/2 to 7-1/2 feet bgs, and silty sand and gravel was observed from 25 feet bgs to the termination depth of the boring at 27 feet bgs. Strong to moderate petroleum odors were encountered at PZ-1(B-4) from about 9-1/2 feet bgs to approximately 16-1/2 feet bgs. No obvious petroleum odors were encountered at PZ-1 (B-4) in samples collected from below about 16-1/2 feet bgs. Also, no petroleum or chemical related odors were readily apparent during the performance of the other borings that MES completed.

# **Groundwater Observations**

Water level measurements were obtained at the monitoring wells and piezometer prior to development and subsequent to sampling. These measurements are indicated below:

| ELEVATIONS       | NAVA / 7 | NAVA 402 | MM/ 102 | MANA/ O | M/M/ 10 | D7 1   |
|------------------|----------|----------|---------|---------|---------|--------|
| ELEVATIONS       | MW-7     | MW-102   | MW-103  | MW-9    | MW-10   | PZ-1   |
| Ground Surface   | 106.28   | 105.95   | 106.78  | 107.24  | 106.82  | 107.22 |
| Top of Casing    | 105.72   | 105.46   | 106.64  | 106.75  | 106.36  | 106.67 |
| Top of Screen    | 95.72    | 95.46    | 96.64   | 96.75   | 96.36   | 84.67  |
| Bottom of Screen | 91.15    | 87.72    | 89.46   | 87.21   | 86.81   | 79.67  |
|                  |          |          |         |         |         |        |
| Groundwater      |          |          |         |         |         |        |
| 6-27-02          | 95.38    | 94.61    | 97.25   | N/A     | N/A     | N/A    |
| 8-14-03          | 94.74    | 94.01    | 96.64   | 89.35   | N/A     | N/A    |
| 1-20-04          | 93.98    | 94.28    | 96.31   | 89.10   | 93.13   | N/A    |
| 8-3-04           | 95.64    | 95.72    | 97.29   | 89.68   | 94.47   | 88.44  |

Due to slow groundwater development within MW-11 and MW-12, groundwater measurements are pending at the time of this report, and the results will be provided as an addendum. Based on the available measurements obtained after development and field observations, it appears that the shallow, perched groundwater aquifer at the subject property generally flows towards the west and northwest. The locations of the groundwater monitoring wells and piezometer are indicated on Figure 2 and 3, in the Appendix. It should be noted that groundwater levels and gradients can fluctuate with seasonal precipitation and changes in lateral drainage patterns.

## USGS Water-Table Map Of Milwaukee County

Based on a review of the United States Geological Survey (USGS) Water-Table Map of Milwaukee County, dated May 1979, the regional water-table level in the general vicinity of the subject site is approximately 600 to 620 feet above mean sea level. As such, based on the USGS topographic map of the ground surface elevation at the subject site, the regional natural water table in the area of the subject site is approximately 50 to 70 feet below the ground surface elevation in this area. On this basis, it appears that the observed groundwater levels at the subject site are indicative of a shallow, perched aguifer of limited extent.

## FIELD AND ANALYTICAL TESTING

## Field Volatile Vapor Emission Screening

Selected soil samples from borings MW-11(B-3), PZ-1(B-4) and PZ-2(B-6) were collected during the soil boring activities and screened for volatile organic vapor emissions in the field with an Hnu 11.7 eV Model PI-101 Photoionization Detector (PID). No volatile organic vapor emissions were detected in the samples collected from MW-10 and PZ-2. However, at PZ-1, PID instrument units ranging from 35 to >500 were detected in samples collected from depths between 8 and 16 feet bgs. The results of the vapor screening of the soil samples collected from the borings are shown on the boring logs located in the Appendix.

# NR746 Risk Screening Closure Criteria

Chapter 746 of the NR700 series code establishes closure evaluation requirements based on several risk criteria outlined in NR746.06 and COMM 47.337(3). These risk criteria include an evaluation of environmental factors listed in COMM 47.337(3) as follows: (1) documented expansion of the plume margin; (2) verified contaminant concentrations in a private or public potable well that exceeds the preventive action limit; (3) contamination within bedrock or within 1 meter of bedrock; (4) verified free product with a thickness of at least 0.01 feet; and (5) documented contamination discharges to a surface water or wetland. In addition to the above mentioned criteria, the following Soil Screening Levels (SSL) and Direct-Contact Soil Contaminant Concentrations (DCL) for contamination within 4 feet of the ground surface, are considered on sites with residual soil contamination.

| Contaminant   | <u>SSL</u>   | <u>DCL</u>                                   |
|---|--|--|
| Benzene 1,2-Dichloroethane Ethylbenzene Naphthalene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Total Xylenes | 8,500 ug/kg<br>600 ug/kg<br>4,600 ug/kg<br>2,700 ug/kg<br>38,000 ug/kg<br>83,000 ug/kg<br>11,000 ug/kg<br>42,000 ug/kg | 1,100 ug/kg<br>540 ug/kg<br><br><br><br><br> |
| -   | • •  |  |

ug/kg = micrograms per kilogram

In addition, it is recognized that NR746.07(1)(d) states that sites (such as the subject site) where groundwater contaminant concentrations equal or exceed the ES within permeable material, and which meet the risk screening criteria defined in NR746.06(2), shall be closed upon compliance with any State required deed restriction, deed notice, and/or Geographic Information System (GIS) registry.

## WDNR Generic Soil Standards

Chapter 720 of the NR700 series code establishes soil cleanup standards, along with criteria for categorizing sites where releases have occurred. For soils with saturated hydraulic conductivity (k) of greater than 10<sup>-6</sup> cm/sec, typical of the nature of soils observed at the subject site, a GRO or DRO level in soil of 100 milligrams per kilogram (mg/kg) would be utilized. In addition to the GRO/DRO Standard, the WDNR is currently utilizing the following residual contaminant levels (RCL) for the below-listed VOCs in soils:

| Benzene      | 5.5 ug/kg  |
|--------------|------------|
| Toluene      | 1500 ug/kg |
| Ethylbenzene | 2900 ug/kg |
| Xylenes      | 4100 ug/kg |

Note:

ug/kg = micrograms per kilogram = parts per billion (ppb)

As currently applied, soils with GRO or DRO levels less than 100 mg/kg, and residual contamination levels below the given RCL concentrations, would not require further action or remediation.

#### Laboratory Soil Analysis Results

The laboratory analysis results indicated the presence of several petroleum and chlorinated VOCs in the soil samples collected from piezometer borings (PZ-1 and PZ-2) performed for this Assessment. However, only the Total Xylenes concentration of 6,540 micrograms per kilogram (ug/kg) that was detected in the sample collected from 10-12 feet bgs at PZ-1 exceeded the NR720 Generic RCLs. In addition, only the Naphthalene concentration of 10,700 ug/kg detected in the same sample was at a level above the NR746 Soil Screening Level (SSL).

No soil standard is currently established for chlorinated solvent compounds in soil. However, it should be noted that elevated concentrations of the chlorinated compounds PCE and TCE were detected in soil samples collected from PZ-1, at sample depths of 18 to 20 feet and 25 to 27 feet bgs. In general, the detected PCE and TCE concentration levels were substantially below the concentrations that were previously detected within the south and southwest portion of the subject property.

It should be recognized that detected concentrations of Methylene Chloride were indicated on the laboratory report to be characteristic of a laboratory artifact. As such, the Methylene Chloride should not be considered to be present within the soil at the subject site. The results of the laboratory soil analyses are summarized on Tables 2 in the Appendix. Also, the complete laboratory analytical reports and chain-of-custody forms are included in the Appendix.

## Groundwater Quality Standards

The Enforcement Standards (ESs) and Preventive Action Limits (PALs) are Groundwater Quality Standards, which have been established in NR140 of the Wisconsin Administrative Code. These Standards are referenced when evaluating the need for further study or remedial activities. The PAL is the more stringent guideline, in terms of being lesser in magnitude than the ES, but will typically require less response action when exceeded. The required action is determined by WDNR regulations, based on various site specific considerations.

# Laboratory Groundwater Analysis Results

Groundwater samples were collected and submitted to a laboratory for VOC analysis by MES from the previously existing monitoring wells MW-7, MW-102 and MW-103 during four (4) separate monitoring events performed between June 2002 and August 2004. The installation of monitoring wells MW-9, MW-10, MW-11, MW-12 and piezometer PZ-1 was performed by MES during separate events conducted between August 2003 and July 2004. As such, groundwater samples were collected and submitted to a laboratory for VOC analysis by MES during three (3) events at MW-9, twice at MW-10, and one event at PZ-1. Due to slow development of groundwater within MW-11 and MW-12, sample collection is pending and the future analysis results will be provided as a separate addendum to this report.

In general, the results of the laboratory analyses of groundwater samples collected by MES indicate that chlorinated and petroleum related VOCs were detected in samples from MW-7, MW-102, MW-9, and MW-10. The greatest concentrations were detected within samples from MW-9. In addition, during the August 3, 2004 sampling event, approximately seven (7) inches of apparent petroleum free product was observed above the groundwater column within MW-9. This free product was sampled, removed, and contained for disposal. No free product was previously observed in MW-9 during the two previous sample events, or within any of the other monitoring wells at the subject site (including those present since 1993).

At MW-7, only very low level concentrations (below WDNR standards) of the petroleum related VOC Methyl tert-butyl ether (MTBE) were detected within three of the four samples collected. No petroleum related VOCs were present in any of the samples from MW-103, and only one of the four samples collected from MW-103 indicated the presence of the chlorinated compound Trichloroethene (TCE), at a concentration below the ES. At PZ-1, only chlorinated VOCs were detected in the one sample collected.

During this Assessment, petroleum related VOC concentrations that exceeded the NR140 Preventive Action Limit (PAL) within samples collected since June 2002, were detected at MW-102 (Benzene), MW-10 (Benzene), and MW-9 (Toluene and Total Xylenes). However, as mentioned above, free petroleum product was encountered within MW-9 during the most recent sample event. Also, at MW-9 the concentrations for Benzene, Ethylbenzene,

Napthalene and Total Trimethylbenzenes were detected above the Enforcement Standards (ES) within the collected groundwater samples.

Chlorinated VOCs were detected at concentrations in excess of the PAL during this Assessment at monitoring wells MW-7 (1,2-DCA, 1,1-DCE, PCE, and 1,1,1-TCA), MW-102 (1,2-DCA and cis-1,2-DCE), MW-9 (1,1-DCE and trans-1,2-DCE), MW-10 (1,1-DCE and 1,1,1-TCA), and at piezometer PZ-1 (PCE). In addition, chlorinated VOCs at concentrations in excess of the ES were detected at monitoring wells MW-7 (1,1-DCE and TCE), MW-102 (TCE), MW-9 (cis-1,2-DCE, PCE, TCE and Vinyl Chloride), MW-10 (1,1-DCE and 1,1,1-TCA), and at piezometer PZ-1 (1,1-DCE, cis-1,2-DCE, 1,1,1-TCA, TCE and Vinyl Chloride).

The overall results of the laboratory analysis during this Assessment indicated a general trend of decreasing or stable concentrations. Although apparent petroleum free product was present at MW-9 during the most recent sample event, it should be recognized that the analysis results of the underlying groundwater sample indicated a significant decreasing trend in the concentrations of chlorinated compounds relative to the previous sample results. A summary of the laboratory groundwater sample analysis results is provided on Table 1 in the Appendix. The laboratory analytical reports and chain-of-custody are also included in the Appendix.

## CONCLUSIONS

## Chlorinated Solvent Affected Soil and Groundwater

The results of the laboratory analysis and field observations performed during this Assessment, and during past investigative activities, indicate that chlorinated solvent affected soils and groundwater are present at the subject site. Based on the previously reported information from HSI, it appears that the primary area of chlorinated affected soil at the subject site is situated within the southwest portion of the property. This affected area reportedly extends vertically from near the ground surface to a depth of approximately 8 feet bgs, and extends laterally from beneath the metal sheds near the southwest property boundary to beneath the southern portion of the facility. The HSI reports indicated that the greatest chlorinated solvent VOC concentrations in the soil were detected beneath the asphalt paved area between the metal sheds and the main building. Also, a secondary area of chlorinated solvent impact to soil was identified by HSI to be located approximately 20 feet north of the primary area, and situated beneath the west-central portion of the main building. This area of the building is reported to be in the general vicinity of a former degreaser operation. In addition, during this recent Assessment, chlorinated solvent VOCs were detected in soil samples that were collected by MES from the north side of the building (within the boring for piezometer PZ-1). The concentration levels at this sample location were below the levels detected within the primary area of impact.

The laboratory analysis results of groundwater samples collected during this Assessment indicated that chlorinated VOCs were detected at concentrations in excess of the PAL and ES

at monitoring wells MW-7, MW-102, MW-9, MW-10, and at piezometer PZ-1. The greatest concentrations were detected at MW-9 and nearby PZ-1 (both located near the north boundary of the subject site). It appears likely that the impact to the groundwater at MW-9 and PZ-1 is related to the nearby secondary area of soil impact discussed above, and may also have been affected by migration from the primary area of soil impact located further south. In addition, the vertical extent of the chlorinated VOC impact within the north portion of the site extends to the screened interval sample depth of 22 to 27 feet at PZ-1. However, no underlying groundwater aquifer was encountered during the performance of soil boring B-6 (proposed PZ-2) to a depth of about 45 feet bgs (approximately 28 feet below PZ-1).

In general, the laboratory groundwater sample analysis results indicate an overall trend of decreasing or stable chlorinated VOC concentration levels. It is understood that no metal plating activities are currently, or were previously performed at the subject site. The primary activities performed at the subject site are buffing, storage and assembly of metal parts. In addition, the property is zoned M1 (light manufacturing) which does not allow for metal plating operations.

The impacted groundwater appears to be a shallow, perched. The historical trend of this shallow groundwater flow direction appears to be primarily toward the northwest. No utility conduits or other potential migration pathways are present within, or immediately adjacent to the affected area. In addition, no public or private water wells are indicated to be located within 1,000 feet of the site, and no rivers, creeks, ponds, lakes, or wetlands are located nearby. Further, the area of the subject site and surrounding properties is serviced with municipal water and wastewater systems.

# Petroleum Affected Soil and Groundwater

Residual petroleum contaminated soils that are affected in excess of the WDNR residual contaminant levels (RCLs) are present within the south and southwest portion of the subject site. The source of the residual petroleum contamination of these soils is known to be the existing southern adjacent BTA gasoline station property (a previously closed LUST case). According to WDNR records, approximately 950 tons of petroleum affected soil was reportedly removed from within the subject site during past remedial excavation activities. However, further excavation and removal could not be accomplished due to the proximity of the structural footings and foundations of the existing storage sheds. As such, these residual petroleum contaminated soils remain within the southwest portion of the subject site, and are likely contributing as a secondary source of groundwater contamination.

Petroleum affected soil was encountered near the north boundary of the subject site during the recent installation of piezometer PZ-1. Based on the field observations and laboratory results it appears that soils affected by petroleum compounds in excess of WDNR standards are present in the vicinity of PZ-1 (and nearby MW-9) at depths between approximately 8 feet and 15 feet bgs.

During this Assessment, and previous sampling events, the laboratory results of the groundwater samples collected from MW-7, MW-102 and MW-10 have indicated the presence of some petroleum related groundwater contamination. MW-7, MW-102 and MW-10 are within the primary area of chlorinated VOC impact on the south portion of the property, near the previously mentioned area of petroleum VOC impact from the southern adjacent LUST site. In addition, the laboratory analysis of samples collected from the MW-9, located near the north boundary of the subject site, indicate the presence of petroleum related VOCs in excess of the WDNR PAL and ES. Also, as mentioned previously, about 7-inches of petroleum product ("free product") was observed, sampled and removed from within MW-9 during the most recent August 2004 sampling event. However, no substantial petroleum related contamination was detected within the groundwater sample collected from the nearby PZ-1 at a screened interval sample depth between about 22 and 27 feet bgs. The screened interval sample depth of MW-9 is between approximately 9 and 19.5 feet bgs.

It should be recognized that no known petroleum storage tanks are currently present at the subject site, and no petroleum storage tanks are known to have previously been located within the subject site. In addition, no substantial quantities of petroleum products are currently used or stored at the subject site, or were previously used or stored at the subject site. As such, it appears likely that the presence of the petroleum related compounds (and the free product) in the vicinity of MW-9 and PZ-1 are the result of an off-site source. The northern adjoining property is utilized for the storage of numerous vehicles, and the garage is utilized for vehicle maintenance activities. The garage and vehicles are located about five to ten feet north beyond the northwest portion of the subject site. Considering the apparent lack of a potential source for a petroleum release at the subject site, the apparent use of the northern adjoining property, and the known past petroleum migration from the southern property, it appears that the northern adjoining property, and/or residual effects from the southern BTA site are a likely source for the detected petroleum impact within the northwest portion of the subject site.

#### RECOMMENDATIONS

The source of the residual soil and groundwater impacted by petroleum compounds within the southern portion of the subject site is known to be from the southern adjacent property. As such, no regulatory responsibility, action or financial obligation is required by MPL (or any future owner of the subject site) with regard to the petroleum affected soil and groundwater within the south portion of the property. Therefore, no further action regarding the petroleum impact to soil and groundwater within the south portion of the subject site is necessary or warranted at this time.

The source of the petroleum related impact to the soil and groundwater that was encountered during this Assessment near the northwest boundary of the subject site may be attributable to the northern adjoining property, or to residual effects from the southern BTA's site. No petroleum storage tanks are known or recorded to have been located on the subject property, no substantial quantities of petroleum products are used or stored at the subject site, and no other obvious evidence of a potential source for a petroleum release within the subject site is

known or was observed. Therefore, it appears likely that the petroleum impact is from an off-site source. On this basis, it appears that the owner of the subject site (or future owner) should not be subject to regulatory responsibility, action or financial obligation for any associated investigative activities or remedial actions associated with the petroleum impact. It is therefore recommended that MPL Realty submit an application to the WDNR to request approval for an off-site exemption from Spill Law requirements related to the presence of the petroleum compounds within the northern portion of the subject site.

Based on the previous reports, it is understood that the source of the chlorinated solvent impact to the soil and groundwater at the subject site is the result of a past release (or releases) at the subject site. As mentioned, it appears that two areas of impact to the soil are present, and the extent of the impacted soils have been substantially defined within the subject site. The impacted soil zone does not appear to extend significantly beyond the boundaries of the subject site. Therefore, it does not appear that any further subsurface exploration to evaluate the extent of chlorinated solvent impact within the soil is necessary or warranted at this time.

With regard to the chlorinated solvent VOC impact to the groundwater, it appears that the affected groundwater is substantially contained within the west portion of the subject property, situated below the existing structures and paved surfaces. The northern extent of the affected plume appears to have migrated slightly beyond the north boundary of the subject property. As such, it is recommended that the northern adjoining property owner be notified of the likely presence of chlorinated VOCs in the groundwater. In addition, considering the relatively high concentrations of the VOCs (including Vinyl Chloride) detected at MW-9 and PZ-1, the WDNR will likely require that additional subsurface assessment activities be performed within the northern adjacent property to further define and evaluate the northern extent of the chlorinated impact.

It should be recognized that the Assessment results to date indicate that the subsurface conditions are not currently suitable to allow the WDNR to grant closure of the subject site at this time. As such, it is recommended that the scope of this Assessment be expanded to include the performance of two (2) additional soil borings within the northern adjacent property (in the vicinity of the existing residence), including the collection and laboratory analysis of soil samples, and that the borings be completed as a groundwater monitoring well and piezometer. Subsequently, additional groundwater monitoring and sample analysis would be performed at all of the wells and piezometers. It is also recommended that that monitoring of geophysical parameters be performed within the wells and piezometers to evaluate the potential for effective natural attenuation processes to occur.

#### **GENERAL COMMENTS**

This assessment has been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. The findings, recommendations and opinions contained herein have been

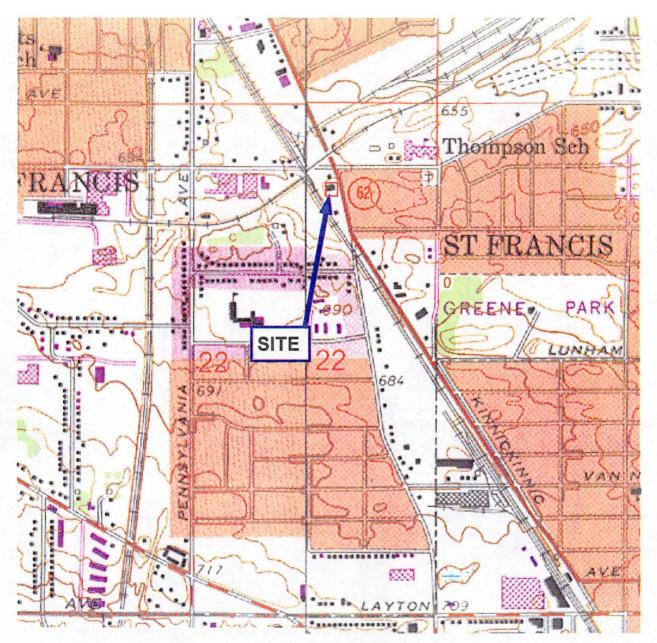
promulgated in accordance with generally accepted practice in similar fields. No other representations, expressed or implied, and no warranty or guarantee is included or intended in this report.

The conclusions presented in this report were formulated from the data obtained during the course of exploratory work on the site, and work performed by previous consultants, which may result in a redirection of conclusions and interpretations where new information is obtained. The regulatory climate and interpretation may also have an effect on the outcome of the environmental assessment for this site. The information contained in this report may have an effect on the value of the property, and is considered confidential. However, it should be recognized that information submitted to the WDNR, and any additional information requested by the WDNR will be public record. Copies of this report will be submitted to others only with authorization from the client.



#### APPENDIX

- Figure 1: Site Location Map (1)
- Figure 2: Site and Surrounding Property Features Diagram (1)
- Figure 3: Soil Boring and Groundwater Monitoring Well Locations (1)
- Figure 4: Approximate Extent of Chlorinated Solvent Affected Soils (1)
- Figure 5: Approximate Extent of Groundwater Affected above NR140
- PALs and/or ESs (1)
- HSI Figure 2-2 (dated 9/7/99): Site Layout and Sample Locations (1)
- HSI Figure 5-1: Tetrachloroethene in Soil (1)
- HSI Figure 5-2: Trichloroethene in Soil (1)
- HSI Figure 5-3: 1,1,1-Trichloroethane in Soil (1)
- HSI Figure 2-2 (dated 11-9-00): Site Layout and Sample Locations (1)
- Table 1: Groundwater Laboratory Analysis Results (3)
- Table 2: Summary of Piezometer Boring Soil Sample Results (1)
- Table 3: Summary of Previous Soil Sample Results (2)
- Laboratory Analytical Test Results and Chain-of-Custodies (86)
- Soil Boring Logs (2)
- Borehole Abandonment Form (3300-5B) (1)
- Monitoring Well Construction Forms (4400-113A) (5)
- Monitoring Well Development Forms (4400-113B) (3)



Northeast  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  of Section 22, Township 6 North, Range 22 East of Milwaukee County

Source: USGS, 7.5 Minute Topographic—South Milwaukee Quadrangle Map, Dated 1994



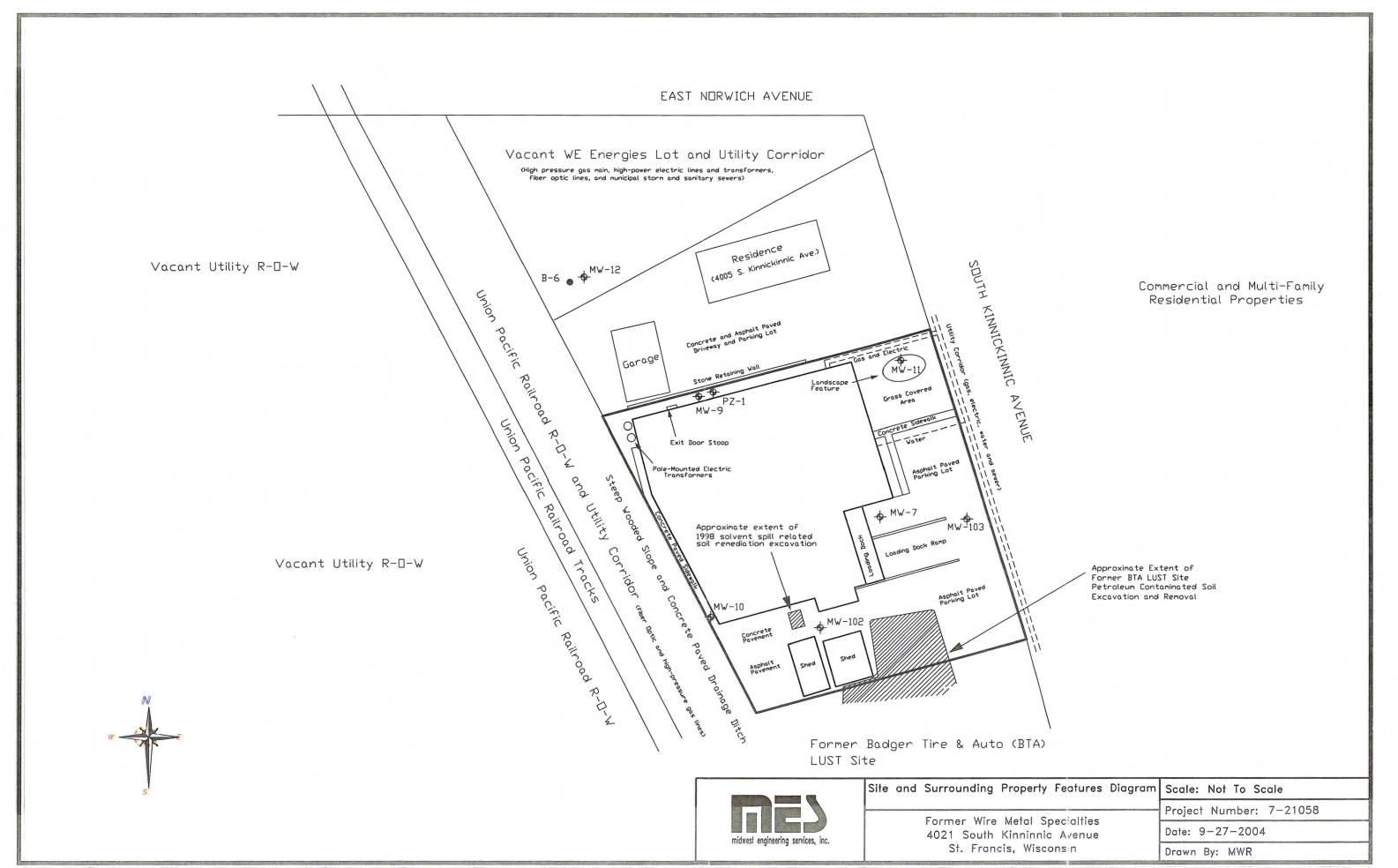
Former Wire & Metal Specialties 4021 South Kinnickinnic Avenue St. Francis, Wisconsin

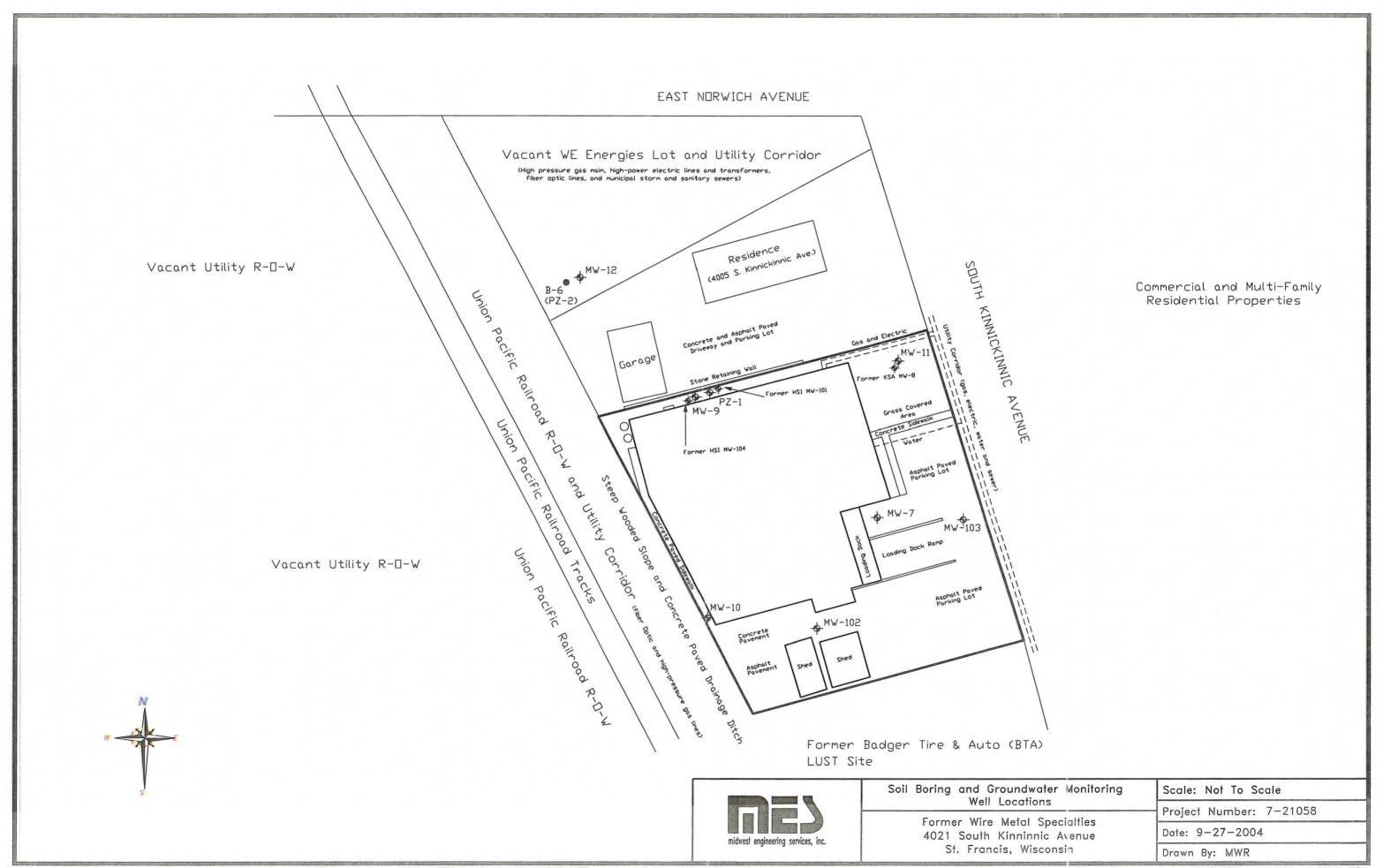
SITE LOCATION MAP

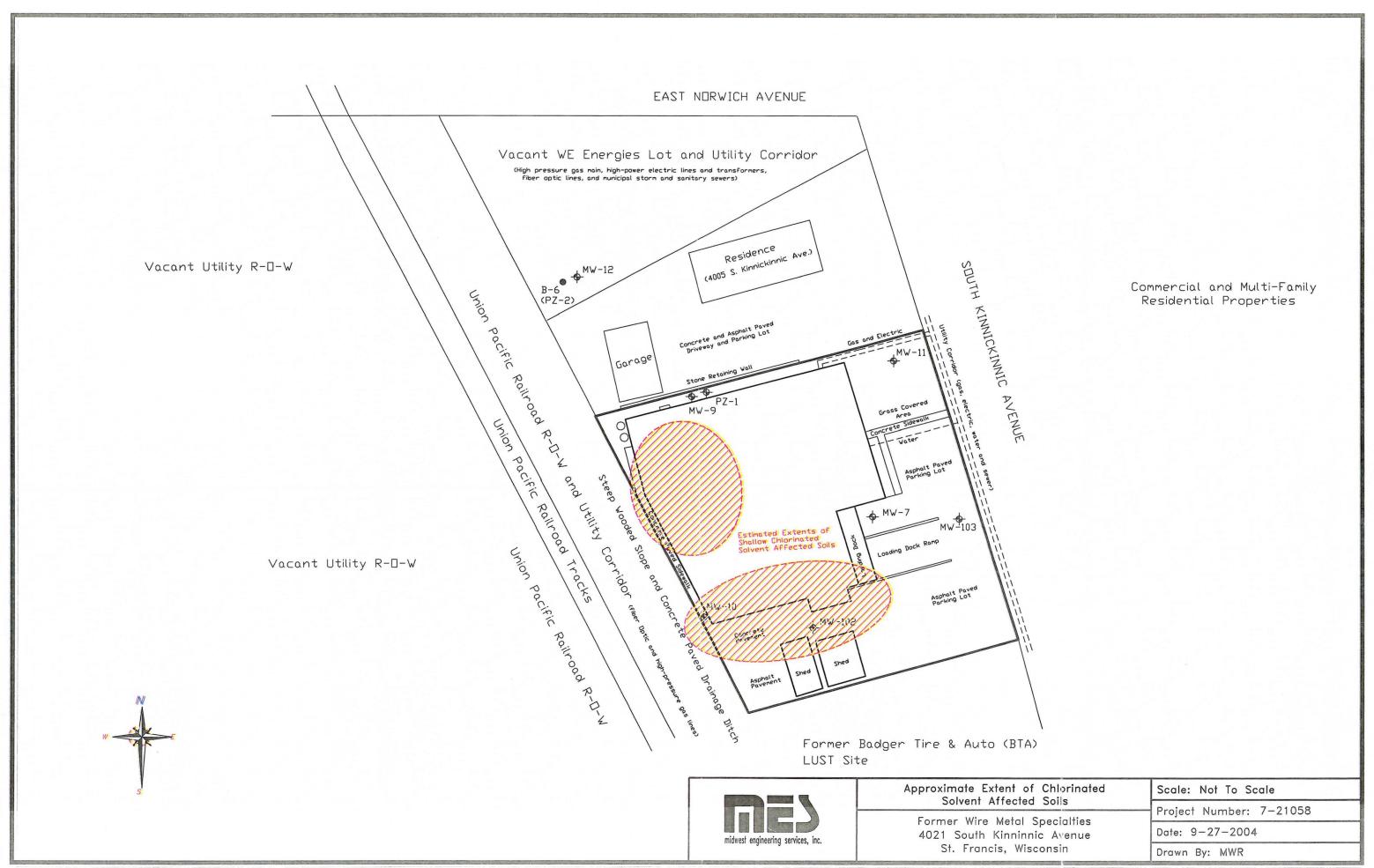
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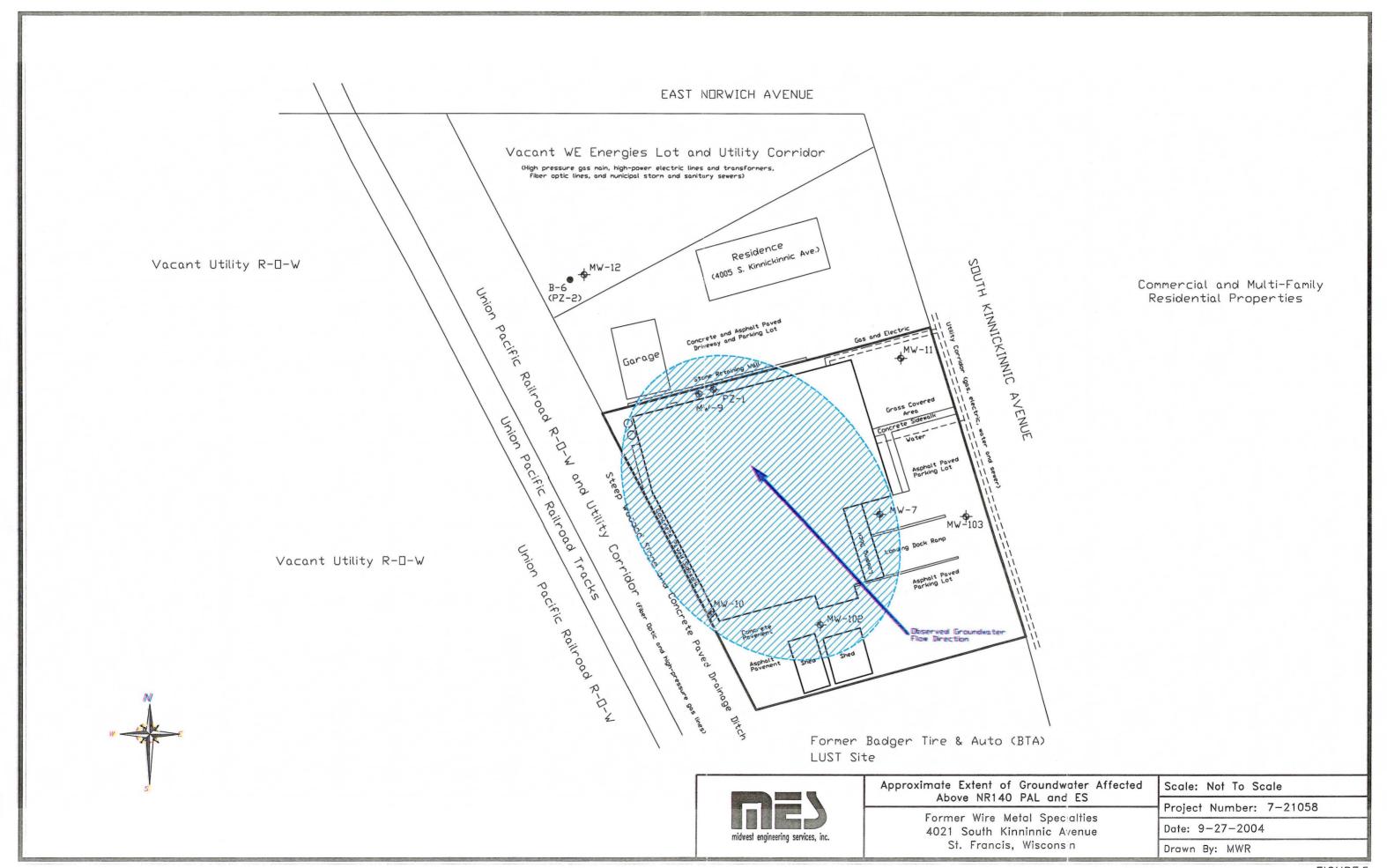
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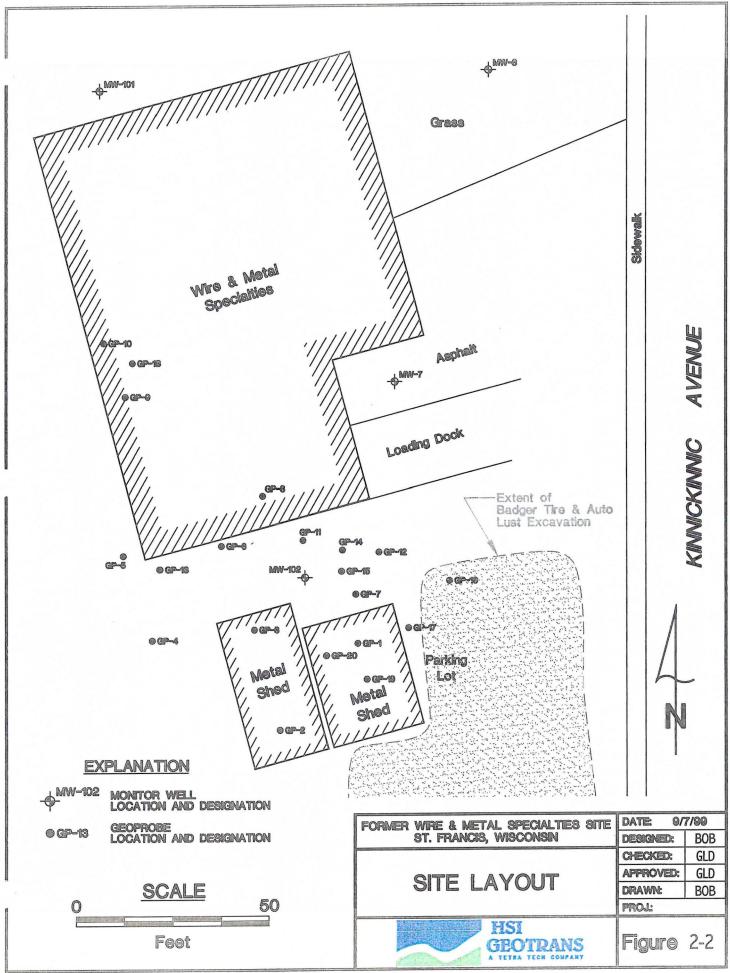
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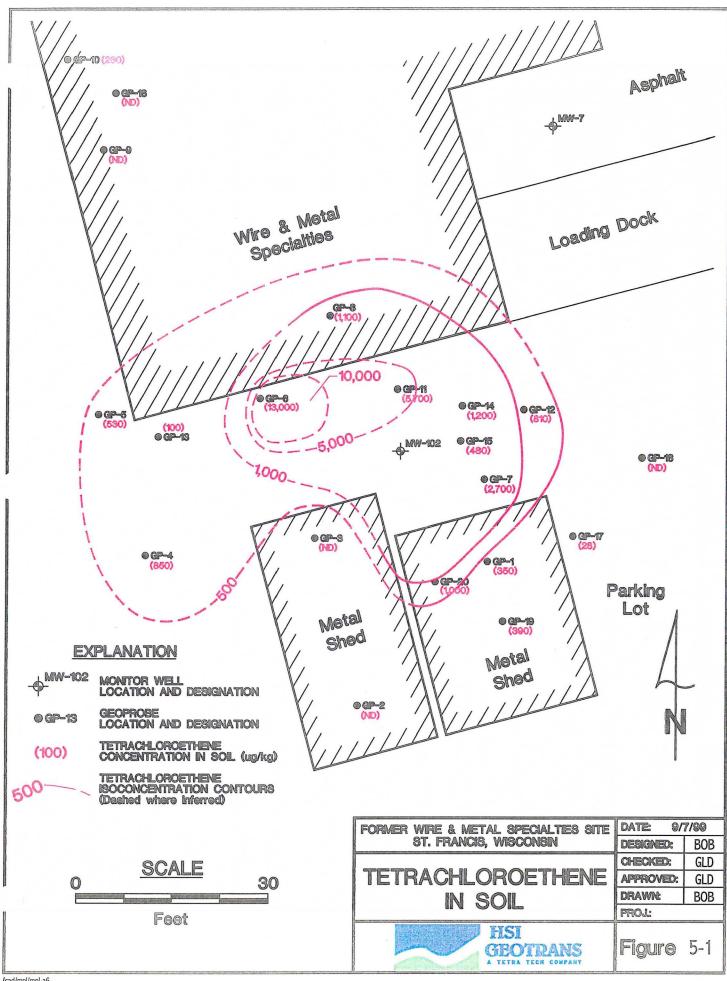


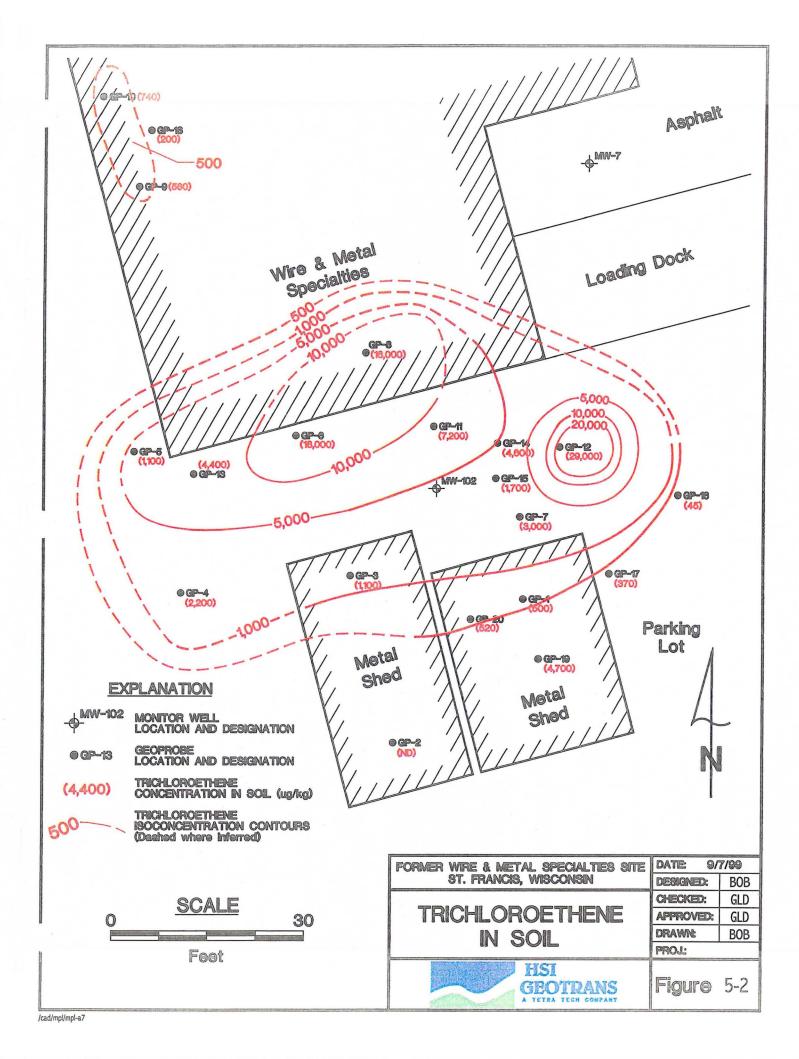


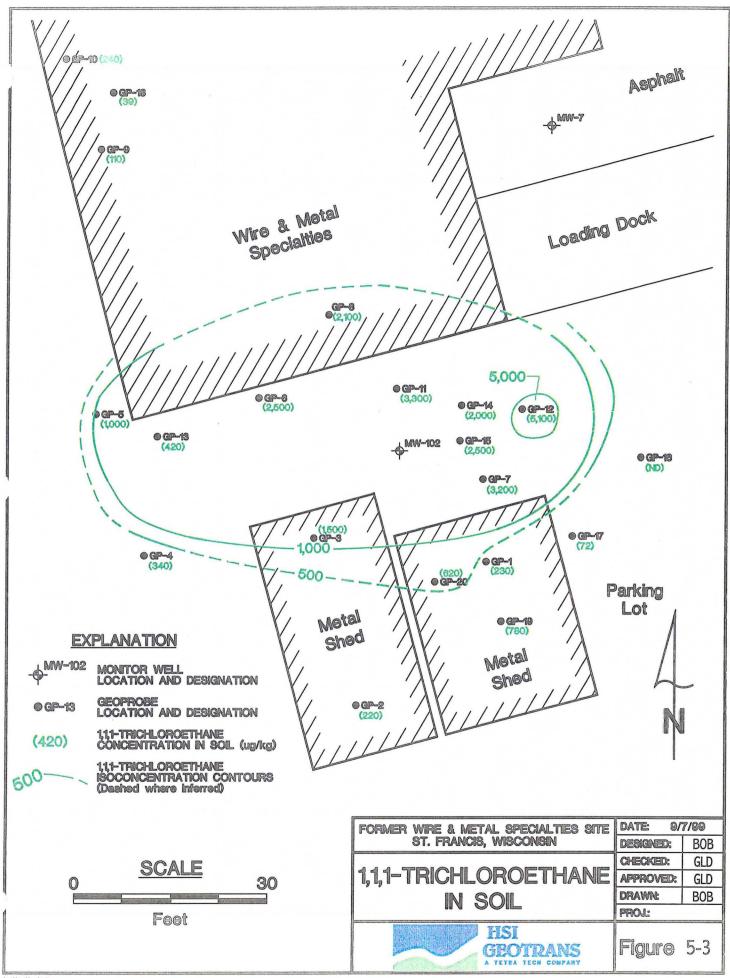


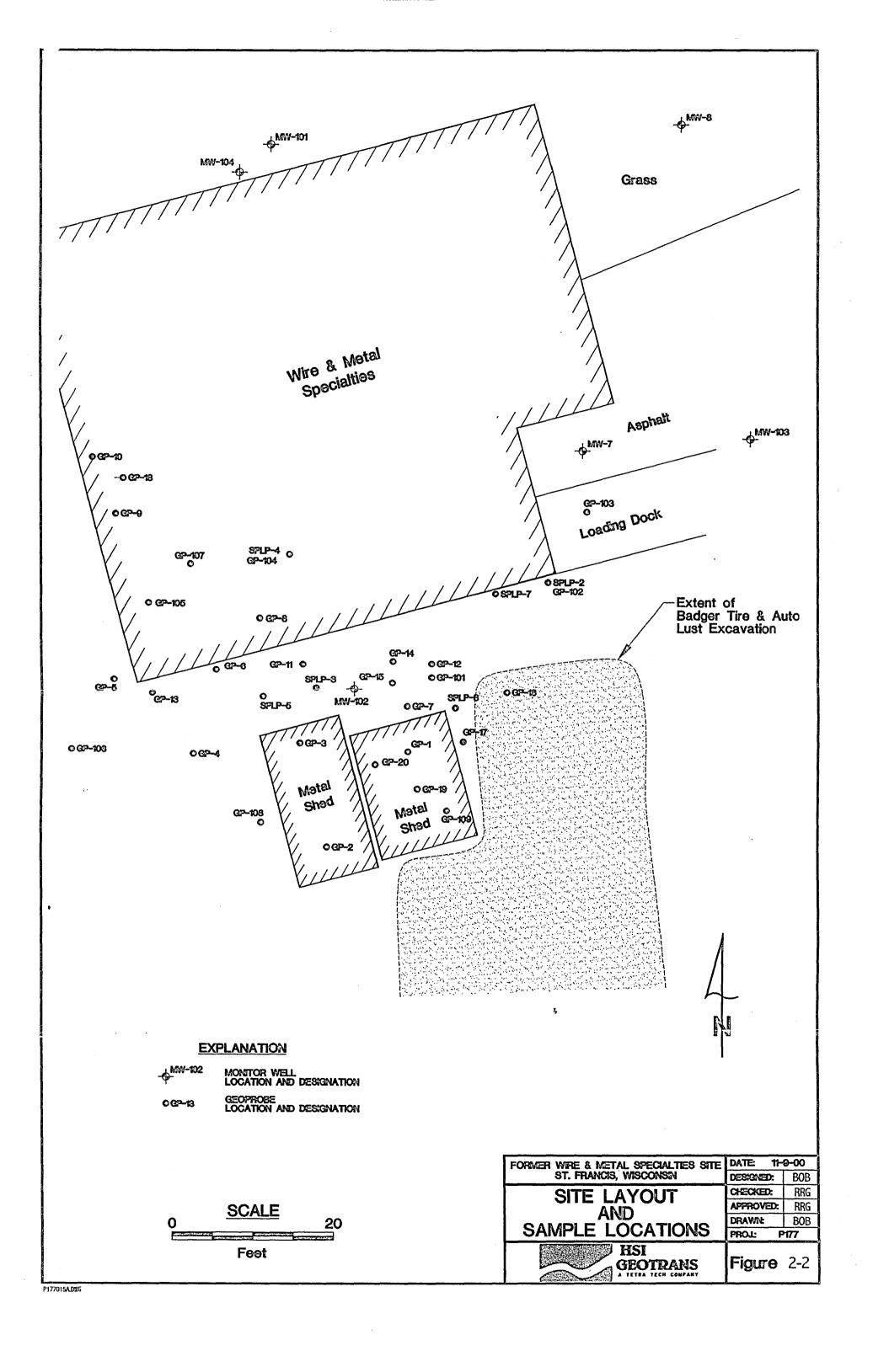












#### A C

# Former Wire & Wetal Specialties Company Site MES Project Number 7-21058 Summary of Groundwater Sample Results

|             |                       |              | ·-                   |               |                    |                    | Labor              | atory A                | nalysi                   | s Resu       | lts - Vo                | olatile (   | Organic           | Comp      | ounds                 | (ug/L)          |                        |                       |                |               |
|-------------|-----------------------|--------------|----------------------|---------------|--------------------|--------------------|--------------------|------------------------|--------------------------|--------------|-------------------------|-------------|-------------------|-----------|-----------------------|-----------------|------------------------|-----------------------|----------------|---------------|
| Well ID     | Date<br>Collected     | Benzene      | Bromodichloromethane | Chloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methyl tert-butyl ether | Naphthalene | Tetrachloroethene | Toluene   | I,1,1-Trichloroethane | Trichloroethene | 1,2,4-Trimethylbenzene | ,3,5-Trimethylbenzene | Vinyl Chloride | Total Xylenes |
|             | 7/16/93*              | 24           | na                   | na            | na                 | na                 | na                 | na                     | na                       | 7            | <23                     | na          | na                | 8         | na                    | na              | na                     | na                    | na             | 5             |
|             | 8/16/93*              | <0.7         | _na_                 | na            | <u>na</u>          | <u>na</u>          | na                 | na                     | na                       | na           | na                      | na          | na                | na        | na                    | na              | na                     | na                    | na             | na            |
|             | 5/12/94*              | 5.9          | na                   | na            | na l               | na                 | na                 | na                     | na                       | na           | <u>na</u>               | na          | na                | na        | na                    | na              | na                     | na                    | na             | na            |
| ].          | 11/22/95*<br>7/10/96* | 6<br>2.1     | na<br>na             | na<br>na      | na<br>na           | na_                | na<br>na           | na<br>na               | na                       | na<br>na     | na<br>na                | na          | na<br>na          | na<br>na  | na                    | na              | na<br>na               | na                    | na             | na            |
|             | 2/10/97*              | 0.31         | na                   | na            | na                 | na<br>na           | na                 | na                     | na<br>na                 | na           | na                      | na<br>na    | na                | na        | na<br>na              | na<br>na        | na<br>na               | na<br>na              | na<br>na       | na<br>na      |
|             | 5/13/97*              | 0.74         | na                   | na            | na                 | na                 | na                 | na                     | na                       | na           | na                      | na          | na                | na        | na                    | na              | na                     | na                    | na             | na            |
| MW-7        | 8/28/97*              | 5.2          | na                   | na            | na                 | na                 | na                 | na                     | na na                    | na           | na                      | na          | na                | na        | na                    | na              | na                     | na                    | na             | na            |
| [           | 3/10/99**             | 10           |                      |               | 4.1                | 2.3                | 2.2                | 1.1                    | 2.9                      |              |                         |             | 2.7               |           | 120                   | 110             |                        |                       |                |               |
|             | 7/16/99***            | 0.51         |                      |               | 6.3                | 1.4                | 2                  | 0.68                   |                          |              | 2.1                     |             | 2.2               |           | 120                   | 110             |                        |                       |                |               |
|             | 6/30/00***            |              |                      |               | 17                 |                    | 18                 | 4.1                    |                          |              |                         |             | 6.5               |           | 220                   | 150             |                        |                       |                |               |
|             | 6/27/02               |              |                      |               |                    | 3.88               | 1.71               | 0.538                  |                          |              | 0.993                   |             | 1.64              |           | 73.8                  | 83.4            |                        |                       |                |               |
| ]           | 8/14/03               | <0.5         |                      | 9.29          |                    | 2.26               | 1.87               | 0.621                  | <0.5                     | <0.5         | 1.53                    | <2.0        | 2.38              | <0.5      | 76.6                  | 72.0            | <1.0                   | <1.0                  | <0.17          | <0.5          |
| ļ           | 1/20/04<br>8/3/04     | <0.5<br><0.5 |                      |               |                    | 1.93               | <0.5               | <5.0                   | <5.0<br><5.0             | <5.0         | 1.09                    | <8.0        | 1.64              | <5.0      | 27                    | 50              | <5.0                   | <5.0                  | <0.65          | <5.0          |
|             |                       |              |                      | <0.44         |                    | <0.5               | 10.8               | <5.0                   |                          | <5.0         | <0.29                   | <8.0        | 2.39              | <5.0      | 35.6                  | 79.7            | <5.0                   | <5.0                  | <0.21          | <5.0          |
|             | 9/7/93*<br>5/12/94*   | <0.5<br>1.3  | na                   | na            | na                 | na                 | na<br>na           | na                     | na                       | <0.5<br><1.0 | <3.0<br><1.0            | na          | na                | 10<br>3.7 | na                    | na              | na                     | na                    | na             | <1.0          |
|             | 11/22/95*             | <0.5         | na<br>na             | na<br>na      | na<br>na           | na<br>na           | na<br>na           | na<br>na               | na<br>na                 | <1.0         | <1.0                    | na<br>na    | na<br>na          | <1.0      | na<br>na              | na              | na                     | na                    | na             | <3.0<br><3.0  |
| MW-8        | 7/10/96*              | <0.5         | na                   | na            | na                 | na                 | na na              | na                     | na                       | <1.0         | <1.0                    | na          | na                | <1.0      | na                    | na<br>na        | na<br>na               | na<br>na              | na<br>na       | <3.0          |
| 14144-0     | 2/10/97*              | <0.13        | na                   | na            | na                 | na                 | na                 | na                     | na                       | <0.22        | <0.16                   | na          | na                | 1.0       | na                    | na              | na                     | na                    | na             | <0.23         |
|             | 7/16/99***            |              |                      |               |                    |                    |                    |                        |                          |              |                         |             |                   |           |                       |                 |                        |                       |                |               |
|             | 6/30/00***            |              |                      |               |                    |                    |                    |                        |                          | 0.51         |                         |             |                   |           |                       |                 |                        |                       |                |               |
| (abandoned) | na                    | na           | na                   | na            | na                 | na                 | na                 | na                     | na                       | na           | na                      | na          | na                | na        | na                    | na              | na                     | na                    | na             | na            |
| DNR         | PAL                   | 0.5          | 0.06                 | 0.3           | 85                 | 0.5                | 0.7                | 7                      | 20                       | 140          | 12                      | 8           | 0.5               | 200       | 40                    | 0.5             | 9                      | 6                     | 0.02           | 1,000         |
| DNR         | ES                    | 5            | 0.6                  | 3             | 850                | 5                  | 7                  | 70                     | 100                      | 700          | 60                      | 40          | 5                 | 1,000     | 200                   | 5               | 4                      | 80                    | 0.2            | 10,000        |

#### NOTES:

DNR PAL = NR140 Preventive Action Limit DNR ES = NR140 Enforcement Standard

- = no standard established

--- = Not Detected

na = Not Analyzed or lab analysis results Not Available

ug/L = Micrograms per Liter = Parts Per Billion
Bold number indicates concentration exceeds the DNR PAL
Shaded and bold number indicates concentration exceeds the DNR ES

\* = Results from K. Singh & Associates

\*\* = Results from KEY Engineering Group

\*\*\* = Results from HSI Geotrans

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#### Former Wire & Metal Specialties Company Site MES Project Number 7-21058 Summary of Groundwater Sample Results

|                |                   |         |              |               |                    |                    | La                 | borato                 | ry Anal                  | ysis Resu    | lts - Vo                | olatile Or  | ganic (           | Compo   | unds (เ               | ıg/L)           |                        |                        |                |               |
|----------------|-------------------|---------|--------------|---------------|--------------------|--------------------|--------------------|------------------------|--------------------------|--------------|-------------------------|-------------|-------------------|---------|-----------------------|-----------------|------------------------|------------------------|----------------|---------------|
| Well ID        | Date<br>Collected | Benzene | Chloroethane | Chloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methyl tert-butyl ether | Naphthalene | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | Trichloroethene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl Chloride | Total Xylenes |
| MW-101         | 7/16/99***        |         |              |               |                    |                    |                    |                        |                          | 27           |                         | 28          |                   | 0.4     |                       |                 | 318                    |                        |                | 158.6         |
| (abandoned)    | na                | na      | na           | na            | na                 | na                 | na                 | na                     | na                       | na           | na                      | na          | na                | na      | na                    | na              | na                     | na                     | na             | na            |
|                | 7/16/99***        | 14      |              |               |                    | 2.5                |                    | 1.7                    | 0.66                     | 7.3          | 8                       |             |                   | 0.9     | 16                    | 140             | 0.56                   |                        |                | 0.92          |
|                | 6/30/00***        | 5.5     |              |               | 5.8                | 0.84               | 2.4                | 5.2                    |                          | 14           | 5.4                     |             |                   | 0.56    | 43                    | 59              |                        |                        |                | 3.5           |
| MW-102         | 6/27/02           | 2.38    |              |               | 1.02               | 0.672              |                    | 11.9                   | 1.28                     | 8.79         | 2.55                    |             |                   |         | 1.88                  | 24.2            |                        |                        |                | 1.37          |
| 11111          | 8/14/03           | 1.76    |              |               |                    | 0.611              |                    | 14.7                   | 1.16                     | 1.87         | 1.77                    |             |                   |         | 3.5                   | 16              |                        |                        |                |               |
|                | 1/20/04           | 1.3     | <5.0         | <0.92         |                    | 1.44               | <0.5               | 14.2                   | <5.0                     | <5.0         | 1.27                    | <8.0        | <0.5              | <5.0    | <5.0                  | 12.8            | <5.0                   | <5.0                   | <0.65          | <5.0          |
|                | 8/3/04            | 1.3     | <5.0         | <0.44         | <5.0               | <0.5               | <0.5               | 11.3                   | <5.0                     | <5.0         | <.29                    | <8.0        | <0.5              | <5.0    | <5.0                  | 11.1            | <5.0                   | <5.0                   | <0.21          | <5.0          |
|                | 06/30/00***       |         |              |               |                    |                    |                    |                        |                          |              | 1.9                     |             |                   |         |                       |                 |                        |                        |                |               |
|                | 6/27/02           |         |              |               |                    |                    |                    |                        |                          |              |                         |             |                   |         |                       |                 |                        |                        |                |               |
| MW-103         | 8/14/03           |         |              |               |                    |                    |                    |                        |                          |              |                         |             |                   |         |                       |                 |                        |                        |                |               |
|                | 1/22/04           | <0.5    | <5.0         | 14.7          | <5.0               | <0.5               | <0.5               | <5.0                   | <5.0                     | <5.0         | <0.38                   | <8.0        | <0.5              | <5.0    | <5.0                  | 0.72            | <5.0                   | <5.0                   | <0.65          | <5.0          |
|                | 8/3/04            | <0.5    | <5.0         | <0.44         | <5.0               | <0.5               | <0.5               | <5.0                   | <5.0                     | <5.0         | <0.29                   | <8.0        | <0.5              | <5.0    | <5.0                  | <0.5            | <5.0                   | <5.0                   | <0.21          | <5.0          |
| MW-104         | 6/30/00***        |         |              |               |                    |                    |                    |                        |                          |              |                         |             | 7.6               |         |                       | 1.1             |                        |                        |                |               |
| (abandoned)    | na                | na      | na           | na            | na                 | na                 | na                 | na                     | na                       | na           | na                      | na          | na                | na      | na                    | na              | na                     | na                     | na             | na            |
|                | 8/14/03           | 11.4    | 3.86         | 3.68          | 47.7               |                    | 28.7               | 832                    | 42.5                     | 229          |                         |             |                   | 99.2    | 30.4                  | 2,050           | 250                    |                        | 272            | 835           |
| MW-9           | 1/20/04           | 14.6    | 122          | 18.1          | <50.0              | <5.0               | 6.3                | 432                    | <50.0                    | 829          | <3.81                   | <80.0       | <5.0              | 219     | <50.0                 | 168             | 1,1                    |                        | 336            | 2,440         |
|                | 8/3/04            | 3.92    | <5.0         | <0.44         | <5.0               | <0.5               | 2.79               | 182                    | <5.0                     | 896          | <0.29                   | 166         | <0.5              | 9.56    | <5.0                  | 76.5            | 1,6                    |                        | 68.2           | 2,310         |
| Free Product > | 8/3/04            | <500    | <5000        |               |                    | <500               |                    | <5000                  | <5000                    | 1,290,000    |                         | 536,000     | 630               | <5000   | <5000                 | <500            | 2,695                  | , <u> </u>             | <217           | 1,180,000     |
| MW-10          | 1/20/04           | 1.04    | <5.0         | <0.92         |                    | <0.5               | 3.34               | <5.0                   | <5.0                     | <5.0         | <0.38                   | <8.0        | 21                | <5.0    | 34.2                  | 64.4            | <5.0                   |                        | 4.06           | <5.0          |
|                | 8/3/04            | <0.5    | <5.0         | <0.44         | 5.06               | <0.5               | 5.29               | <5.0                   | <5.0                     | <5.0         | <0.29                   | <8.0        | 49.2              | <5.0    | 87.6                  | 147             | <5.0                   | <5.0                   | <.21           | <5.0          |
| DNR            | PAL               | 0.5     | 80           | 0.3           | 85                 | 0.5                | 0.7                | 7                      | 20                       | 140          | 12                      | 8           | 0.5               | 200     | 40                    | 0.5             | 9                      | 6                      | 0.02           | 1,000         |
| DNR            | ES                | 5       | 400          | 3             | 850                | 5                  | 7                  | · 70                   | 100                      | 700          | 60                      | 40          | 5                 | 1,000   | 200                   | 5               | 48                     | 30                     | 0.2            | 10,000        |

#### NOTES:

DNR PAL = NR140 Preventive Action Limit DNR ES = NR140 Enforcement Standard

- = no standard established

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Bold number indicates concentration exceeds the DNR PAL
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<sup>\* =</sup> Results from K. Singh & Associates

<sup>\*\* =</sup> Results from KEY Engineering Group

<sup>\*\*\* =</sup> Results from HSI Geotrans

TABLE 1
Former Wire & Metal Specialties Company Site
MES Project Number 7-21058
Summary of Groundwater Sample Results

|         |                   |         |                      |               |                    | Lab                | orato              | ry Ana                 | ılysis l                 | Result       | s - Vol                 | atile O     | rgani             | c Com   | oound                 | s (ug/L         | .)                     |                        |                |               |
|---------|-------------------|---------|----------------------|---------------|--------------------|--------------------|--------------------|------------------------|--------------------------|--------------|-------------------------|-------------|-------------------|---------|-----------------------|-----------------|------------------------|------------------------|----------------|---------------|
| Well ID | Date<br>Collected | Benzene | Bromodichloromethane | Chloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methyl tert-butyl ether | Naphthalene | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | Trichloroethene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl Chloride | Total Xylenes |
| PZ-1    | 8/3/04            | <0.5    | 4.57                 | <0.44         | 50.1               | <0.5               | 108                | 128                    | <5.0                     | <5.0         | <0.29                   | <8.0        | 4.2               | <5.0    | 304                   | 405             | <5.0                   | <5.0                   | 15.1           | <5.0          |
| MW-11   | na                | na      | na                   | na            | na                 | na                 | na                 | na                     | na                       | na           | na                      | na          | na                | na      | na                    | na              | na                     | na                     | na             | na            |
| MW-12   | na                | na      | na                   | na            | na                 | na                 | na                 | na                     | na                       | na           | na                      | na          | na                | na      | na                    | na              | na                     | na                     | na             | na            |
| DNR     | PAL               | 0.5     | 0.06                 | 0.3           | 85                 | 0.5                | 0.7                | 7                      | 20                       | 140          | 12                      | 8           | 0.5               | 200     | 40                    | 0.5             | 9                      | 6                      | 0.02           | 1,000         |
| DNR     | ES                | 5       | 0.6                  | 3             | 850                | 5                  | 7                  | 70                     | 100                      | 700          | 60                      | 40          | 5                 | 1,000   | 200                   | 5               | 48                     | 30                     | 0.2            | 10,000        |

#### NOTES:

DNR PAL = NR140 Preventive Action Limit DNR ES = NR140 Enforcement Standard

- = no standard established
- --- = Not Detected

na = Not Analyzed or lab analysis results Not Available

ug/L = Micrograms per Liter = Parts Per Billion
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- \* = Results from K. Singh & Associates
- \*\* = Results from KEY Engineering Group
- \*\*\* = Results from HSI Geotrans

TABLE 2 Former Wire and Metal Specialties
Summary of Piezometer Borings Soil Sample Results

|         |             |         |         |                | -                |                   | 2                  |                        |              |                  | Vo                  | latile C           | rganic Co   | ompour           | nds (u            | g/kg)   |                        |                        |                 |                         | <del></del>             |                |               |
|---------|-------------|---------|---------|----------------|------------------|-------------------|--------------------|------------------------|--------------|------------------|---------------------|--------------------|-------------|------------------|-------------------|---------|------------------------|------------------------|-----------------|-------------------------|-------------------------|----------------|---------------|
| Boring  | Depth (ft)  | Date    | Benzene | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | 1,1 Dichloroethane | cis 1,2 Dichloroethene | Ethylbenzene | Isopropylbenzene | p-Isopropyl toluene | Methylene Chloride | Naphthalene | n-Propyl benzene | Tetrachloroethene | Toluene | 1,1,1 Tri Chloroethane | 1,1,2 Tri Chloroethane | Trichloroethene | 1,2,4 Tri Methylbenzene | 1,3,5 Tri Methylbenzene | Vinyl Chloride | Total Xylenes |
| PZ-1    | 10 - 12     | 7/26/04 | <25     | 7,060          | <25              | 1,240             | <25                | <25                    | 358          | 2,870            | 7,840               | 760                | 10,700      | 7,290            | <25               | <25     | <25                    | <25                    | <25             | 67,000                  | 4,250                   | <25            | 6,540         |
| PZ-1    | 18 - 20     | 7/26/04 | <25     | <25            | <25              | <25               | <25                | 90.5                   | <25          | <25              | <25                 | <100               | <25         | <25              | 56                | <25     | 499                    | <25                    | 2,600           | 27                      | <25                     | <25            | <25           |
| PZ-1    | 25 - 27     | 7/26/04 | <25     | <25            | <25              | <25               | 73.1               | 137                    | 62.5         | <25              | <25                 | <100               | 104         | 116              | 251               | <25     | 636                    | <25                    | 3,490           | 748                     | 169_                    | <25            | 210           |
| PZ-2    | 43 - 45     | 7/26/04 | <25     | <25            | 40               | <25               | <25                | <25                    | <25          | <25              | <25                 | 694                | 60.5        | <25              | <25               | <25     | <25                    | <25                    | <25             | 57.5                    | <25                     | <25            | <25           |
| NR720 G | eneric RCLs | 3       | 5.5     | -              |                  | -                 |                    | _                      | 2,900        |                  | -                   | _                  | -           | -                |                   | 1,500   |                        | _                      | _               | _                       | _                       |                | 4,100         |
| NR746 S | SLs         |         | 8,500   | -              | _                | -                 | -                  | -                      | 4,600        |                  | -                   |                    | 2,700       | _                |                   | 38,000  | _                      |                        | -               | 83,000                  | 11,000                  | -              | 42,000        |

#### NOTES:

ug/kg = micrograms per kilogram = parts per billion

- = No standards established

Bold indicates concentrations above NR720 Generic Residual Contaminant Levels (GRCLs) Italic and bold concentrations exceed NR746 Soil Screening Levels (SSLs)

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#### Former Wire and Metal Specialties Summary of Previous Soil Sample Results

|                     |             |          |                |                  |                    | T                  | T                  | 1                      |              | v                   | olatile Orga | anic Compo       | ounds (ug/k       | g)      |                        | r                      |                 | 1                      | ·                       |                         |               |
|---------------------|-------------|----------|----------------|------------------|--------------------|--------------------|--------------------|------------------------|--------------|---------------------|--------------|------------------|-------------------|---------|------------------------|------------------------|-----------------|------------------------|-------------------------|-------------------------|---------------|
| Boring              | Depth (ft)  | Date     | n-Butylbenzene | sec-Butylbenzene | 1,1 Dichloroethane | 1,2 Dichloroethane | 1,1 Dichloroethene | cis 1,2 Dichloroethene | Ethylbenzene | p-Isopropyl toluene | Naphthalene  | n-Propyl benzene | Tetrachioroethene | Toluene | 1,1,1 Tri Chloroethane | 1,1,2 Tri Chloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,4 Tri Methylbenzene | 1,3,5 Tri Methylbenzene | Total Xylenes |
| GP-1*               | 3-5         | 03/10/99 | <25            | na               | <25                | na                 | na                 | na                     | <25          | <25                 | na           | <25              | <25               | <25     | <25                    | na                     | <25             | na                     | <                       | 50                      | <25           |
| GP-2*               | 7-9         | 03/10/99 | 25             | na               | <25                | na                 | na                 | na                     | <25          | <25                 | na           | <25              | <25               | <25     | <25                    | na                     | <25             | na                     | <                       | 50                      | <25           |
| GP-3*               | 1-3         | 03/10/99 | 22000          | na               | 1900               | na                 | na                 | na                     | 1900         | 1700                | na           | 6900             | 4200              | <500    | 26000                  | na                     | 7500            | na                     | 20                      | 900                     | 1500          |
| GP-4*               | 3-5         | 03/10/99 | <25            | na               | <25                | na                 | na                 | na                     | <25          | <25                 | na           | <25              | 150               | 34      | 220                    | na                     | 1100            | na                     | <                       | 50                      | <25           |
| GP-1^               | 0-2         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 350               | <25     | 230                    | <25                    | 500             | <25                    | <25                     | <25                     | 34            |
| GP-2^               | 0-2         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | 44      | 220                    | <25                    | <25             | <25                    | <25                     | <25                     | <75           |
| GP-3^               | 4-6         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 1500                   | <25                    | 1100            | <25                    | <25                     | <25                     | <75           |
| GP-4^               | 4-6         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 850               | <25     | 360                    | <25                    | 2200            | <25                    | <25                     | <25                     | <75           |
| GP-5^               | 4-6         | 07/07/99 | <250           | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 530               | <25     | 1000                   | <25                    | 5300            | <25                    | <25                     | <25                     | <750          |
| GP-6^               | 2-4         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | 120                    | <25          | <25                 | <25          | <25              | 13000             | 83      | 2500                   | 32                     | 18000           | 28(J)                  | <25                     | <25                     | <75           |
| GP-7^               | 0-2         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | 2700    | 3200                   | <25                    | 3000            | <25                    | <25                     | <25                     | 125           |
| GP-8^               | 4-6         | 07/07/99 | <25            | <25              | 32                 | <25                | <25                | 61                     | <25          | <25                 | <25          | <25              | 1100              | <25     | 2100                   | <25                    | 16000           | <25                    | <25                     | <25                     | <75           |
| GP-9 <sup>^</sup> . | 4-6         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 110                    | <25                    | 560             | <25                    | <25                     | <25                     | <75           |
| GP-10^              | 4-6         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 260               | <25     | 240                    | <25                    | 740             | <25                    | <25                     | <25                     | <75           |
| GP-11^              | 0-2         | 07/07/99 | <25            | <25              | 130                | <25                | <25                | 75                     | <25          | <25                 | <25          | <25              | 5700              | <25     | 3300                   | 39                     | 7200            | <25                    | <25                     | <25                     | <75           |
| GP-12^              | 0-2         | 07/07/99 | <25            | <25              | 53                 | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 810               | 110     | 5100                   | 57                     | 29000           | <25                    | <25                     | <25                     | <75           |
| GP-13^              | 4-6         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 100               | <25     | 420                    | <25                    | 4400            | <25                    | <25                     | <25                     | <75           |
| GP-14^              | 0-2         | 07/07/99 | <25            | <25              | 220                | <25                | 35                 | 33                     | <25          | <25                 | <25          | <25              | 1200              | <25     | 2000                   | <25                    | 4600            | <25                    | <25                     | <25                     | <75           |
| GP-15^              | 0-2         | 07/07/99 | 62             | 31               | 310                | <25                | 56                 | <25                    | <25          | 30                  | <25          | 54               | 480               | <25     | 2500                   | <25                    | 1700            | <25                    | 65                      | 110                     | <75           |
| GP-16^              | 0-2         | 07/07/99 | <25            | 48               | <25                | <25                | <25                |                        | <25          | <25                 | 170          | <25              | <25               | <25     | <25                    | <25                    | 45              | <25                    | <25                     | <25                     | <75           |
| GP-17^              | 6-8         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 28                | <25     | 72                     | <25                    | 370             | <25                    | <25                     | <25                     | <75           |
| GP-18^              | 4-6         | 07/07/99 | <25            | <25              | <25                | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 39                     | <25                    | 200             | <25                    | <25                     | <25                     | <75           |
| GP-19 <sup>^</sup>  | 0-2         | 07/07/99 | <25            | 66               | <25                | <25                | <25                | <25                    | <25          | <25                 | 27           | <25              | 390               | 60      | 780                    | <25                    | 4700            | 72                     | 60                      | 47                      | <75           |
| NR720 G             | eneric RCLs |          |                | -                | -                  | 4.9                | -                  | -                      | 2900         | -                   | -            |                  | -                 | 1500    | -                      | _                      | _               | -                      | -                       | -                       | 4100          |

#### NOTES:

<sup>\* =</sup> Results from key Environmental

<sup>^ =</sup> Results from HIS Geotrans

<sup>- =</sup> No standards established

J = Estimated by laboratory

TABLE 3
Former Wire and Metal Specialties
Summary of Previous Soil Sample Results

|                     |             |          |                |                  | · · · · · · · · · · · · · · · · · · · |                    |                    |                        |              | V                   | olatile Orga | nic Compo        | unds (ug/k        | g)      |                        |                        |                 | ,                      |                         |                         |               |
|---------------------|-------------|----------|----------------|------------------|---------------------------------------|--------------------|--------------------|------------------------|--------------|---------------------|--------------|------------------|-------------------|---------|------------------------|------------------------|-----------------|------------------------|-------------------------|-------------------------|---------------|
| Boring              | Depth (ft)  | Date     | n-Butylbenzene | sec-Butylbenzene | 1,1 Dichloroethane                    | 1,2 Dichloroethane | 1,1 Dichloroethene | cis 1,2 Dichloroethene | Ethylbenzene | p-Isopropyl toluene | Naphthalene  | n-Propyl benzene | Tetrachioroethene | Toluene | 1,1,1 Tri Chloroethane | 1,1,2 Tri Chloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,4 Tri Methylbenzene | 1,3,5 Tri Wethylbenzene | Total Xylenes |
| GP-20^              | 0-2         | 07/08/99 | <25            | <25              | 120                                   | <25                | <25                | 26                     | 37           | <25                 | <25          | <25              | 1000              | <25     | 620                    | <25                    | 520             | 45(J)                  | 34                      | <25                     | 1220          |
| GP-20^              | 8-10        | 07/08/99 | <25            | <25              | <25                                   | <u>40</u>          | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 160                    | <25                    | <25             | <25                    | <50                     | <25                     | <75           |
| GP-6^               | 2-4         | 07/08/99 | <25            | <25              | <25                                   | <25                | <25                | 120                    | <25          | <25                 | <25          | <25              | 13000             | 83      | 2500                   | 32                     | 18000           | 28(J)                  | <50                     | <25                     | <75           |
| GP-103 <sup>^</sup> | 2           | 06/27/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 73                     | <25                    | 81              | <25                    | <50                     | <25                     | <75           |
| GP-101 <sup>^</sup> | 2           | 06/27/00 | <25            | <25              | 74                                    | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 450               | <25     | 5000                   | <25                    | 37000           | <25                    | <50                     | <25                     | <75           |
| GP-101 <sup>^</sup> | 20          | 06/27/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | <25                    | <25                    | 160             | <25                    | <50                     | <25                     | <75           |
| GP-101 <sup>^</sup> | 30          | 06/27/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | <25                    | <25                    | <25             | <25                    | <50                     | <25                     | <75           |
| GP-102 <sup>^</sup> | 2           | 06/27/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 72                     | <25                    | 35              | <25                    | <50                     | <25                     | <75           |
| GP-109^             | 2           | 06/27/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 58                     | <25                    | 1900            | <25                    | <50                     | <25                     | <75           |
| GP-109^             | 8           | 06/27/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 84                     | <25                    | 920             | <25                    | <50                     | <25                     | <75           |
| GP-104 <sup>^</sup> | 3           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 160               | <25     | 170                    | <25                    | 850             | <25                    | <50                     | <25                     | <75           |
| GP-104 <sup>^</sup> | 8           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | 32                     | <25          | <25                 | <25          | <25              | 100               | <25     | 450                    | <25                    | 1900            | <25                    | <50                     | <25                     | <75           |
| GP-105^             | 3           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | <25                    | <25                    | 35              | <25                    | <50                     | <25                     | <75           |
| GP-105^             | 8           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | <25                    | <25                    | 80              | <25                    | <50                     | <25                     | <75           |
| GP-107^             | 3           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | 59      | 32                     | <25                    | 43              | <25                    | <50                     | <25                     | <75           |
| GP-107^             | 8           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | <25               | <25     | 31                     | <25                    | 68              | <25                    | <50                     | <25                     | <75           |
| GP-106^             | 2           | 06/28/00 | 330            | 36               | <25                                   | <25                | <25                | <25                    | 49           | <25                 | <25          | <25              | 290               | 920     | 530                    | <25                    | 410             | <25                    | 610                     | 650                     | 1340          |
| GP-108 <sup>^</sup> | 2           | 06/28/00 | <25            | <25              | <25                                   | <25                | <25                | <25                    | <25          | <25                 | <25          | <25              | 190               | 85      | 220                    | <25                    | 100             | <25                    | <50                     | 25                      | 230           |
| NR720 G             | eneric RCLs |          | •              | **               | -                                     | 4.9                |                    | -                      | 2900         | -                   | -            | -                | _                 | 1500    | -                      | -                      | -               | -                      | -                       | -                       | 4100          |

#### NOTES

\* = Results from key Environmental

^ = Results from HIS Geotrans

- = No standards established

ug/kg = microç ug/kg = microç ug/kg = micrograms per kilogram = parts per billion na = Lab Analı na = Lab Analı na = Lab Analysis Results not available - reported as No Detect J = Estimated by laboratory



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Midwest Engineering Services

Project: MPL Realty

205 Wilmont Dr. Waukesha, WI 53189 Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID           | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|---------------------|---------------|--------|----------------|----------------|
| MW-10               | W408044-01    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |
| MW-102              | W408044-02    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |
| MW-103              | W408044-03    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |
| MW-7                | W408044-04    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |
| PZ-1                | W408044-05    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |
| MW-9                | W408044-06    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |
| MW-9 (Free Product) | W408044-07    | Water  | 08/03/04 00:00 | 08/04/04 12:52 |

#### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Midwest Engineering Services

Project: MPL Realty

205 Wilmont Dr. Waukesha, WI 53189 Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

## WDNR Volatile Organic Compounds by Method 8260

## Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-10 (W408044-01) Water    | Sampled: 08/03/04 00:00 | Received           | : 08/04/04 | 12:52    |         |          |          |           | QC    |
| Benzene                     | ND                      | 0.500              | ug/l       | 1        | 4080054 | 08/14/04 | 08/16/04 | EPA 8260B |       |
| Bromobenzene                | ND                      | 5.00               | #          | **       | "       | **       | **       | "         |       |
| Bromodichloromethane        | ND                      | 0.391              | tt         | **       | "       | **       | "        | "         |       |
| n-Butylbenzene              | ND                      | 5.00               | #          | **       | **      | "        | "        | **        |       |
| sec-Butylbenzene            | ND                      | 5.00               | Ħ          | **       | "       | "        | **       | "         |       |
| tert-Butylbenzene           | ND                      | 5.00               | Ħ          | **       | "       | "        | **       | rr ·      |       |
| Carbon tetrachloride        | ND                      | 0.372              | **         | **       | "       | *        | **       | **        |       |
| Chlorobenzene               | ND                      | 5.00               | "          | **       | "       | 11       | tt       | **        |       |
| Chloroethane                | ND                      | 5.00               | "          | 11       | "       | 11       | **       | Ħ         |       |
| Chloroform                  | ND                      | 0.316              | **         | 11       | "       | 11       | Ħ        | 11        |       |
| Chloromethane               | ND                      | 0.448              | 11         | 11       | "       | "        | #1       | 11        |       |
| 2-Chlorotoluene             | ND                      | 5.00               | "          | 11       | "       | "        | Ħ        | 11        |       |
| 4-Chlorotoluene             | ND                      | 5.00               | **         | "        | n       | "        | **       | n .       |       |
| Dibromochloromethane        | ND                      | 5.00               | H          | "        | n       | tt       | **       | "         |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.264              | 11         | **       | **      | **       | ••       | "         |       |
| 1,2-Dibromoethane           | ND                      | 0.251              | 11         | **       | tt      | n        |          | **        |       |
| 7,2-Dichlorobenzene         | ND                      | 5.00               | Ħ          | **       | 11      | u        | **       | **        |       |
| 7,3-Dichlorobenzene         | ND                      | 5.00               | **         | **       | "       | **       | **       | H         |       |
| 1,4-Dichlorobenzene         | ND                      | 5.00               | **         | "        | **      | n        | **       | n         |       |
| Dichlorodifluoromethane     | ND                      | 5.00               | **         | **       | 11      | n        | **       | н         |       |
| 1,1-Dichloroethane          | 5.06                    | 5.00               | 11         | **       | **      | tr       | **       | 11        |       |
| 1,2-Dichloroethane          | ND                      | 0.500              | 11         | **       | "       | **       | **       | n         |       |
| 1,1-Dichloroethene          | 5.29                    | 0.500              | 11         | **       | **      | "        | **       | n .       |       |
| =;-1,2-Dichloroethene       | ND                      | 5.00               | н          | 11       | n       | **       | **       | tr        |       |
| trans-1,2-Dichloroethene    | ND                      | 5.00               | *1         | **       | н       | **       | "        |           |       |
| 1,2-Dichloropropane         | ND                      | 0.500              | 19         | tr       | **      | H        | "        | "         |       |
| 1,3-Dichloropropane         | ND                      | 5.00               | **         | 17       | **      | "        |          | "         |       |
| 2,2-Dichloropropane         | ND                      | 5.00               | 11         | 11       | **      | "        | "        | 11        |       |
| Di-isopropyl ether          | ND                      | 5.00               | **         | 11       | **      | н        |          | н         |       |
| Ethylbenzene                | ND                      | 5.00               | 97         | 11       | **      | "        | ,,       | II        | G13   |
| Hexachlorobutadiene         | ND                      | 10.0               |            | **       | **      | "        | **       | 11        | 01.   |
| Isopropylbenzene            | ND                      | 5.00               | II         |          | "       | "        | 11       | 11        |       |
| p-Isopropyltoluene          | ND                      | 5.00               | Ħ          | **       | 11      | "        | **       | "         |       |
| Methylene chloride          | ND                      | 0.386              | tt.        | **       | **      | "        | 11       | **        |       |
| Methyl tert-butyl ether     | ND<br>ND                | 0.290              | **         | **       | **      | "        | II.      | n         |       |
| Naphthalene                 | ND<br>ND                | 8.00               | H          | **       | н       | "        | **       | "         |       |
| n-Propylbenzene             | ND                      | 5.00               | 11         |          | H       | "        | "        | 11        |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.331              | "          | "        | **      | "        | 11       | "         |       |
| Tetrachloroethene           | 49.2                    | 0.500              | **         | **       | **      | **       | "        | n         |       |
| Toluene                     | 49.2<br>ND              | 5.00               | 11         | 11       | "       | **       | ,,       | н         |       |
| 1,2,3-Trichlorobenzene      | ND<br>ND                | 10.0               | "          | 11       | **      | "        | 11       | ,,        |       |
|                             |                         |                    | ,,         | "        | **      | "        |          | "         |       |
| 1,2,4-Trichlorobenzene      | ND                      | 10.0               | "          | **       | .7      | "        |          | ••        |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

**Reported:** 08/20/04 09:52

# WDNR Volatile Organic Compounds by Method 8260

Great Lakes Analytical--Oak Creek Reporting Result Limit Dilution Batch Prepared Analyzed Method Notes Analyte Units MW-10 (W408044-01) Water Sampled: 08/03/04 00:00 Received: 08/04/04 12:52 QC ug/l EPA 8260B 1.1.1-Trichloroethane 87.6 5.00 4080054 08/14/04 08/16/04 1,1,2-Trichloroethane ND 0.145 08/19/04 G20 Trichloroethene 5.00 10 147 Trichlorofluoromethane 5.00 08/16/04 ND 1,2,4-Trimethylbenzene ND 5.00 1,3,5-Trimethylbenzene ND 5.00 Vinyl chloride G14 ND 0.217 Total Xylenes ND 5.00 Surrogate: Dibromofluoromethane 89.6 % 82.1-117 Surrogate: 1,2-Dichloroethane-d4 93.2 % 70.2-131 Surrogate: Toluene-d8 104% 74.1-125 Surrogate: 4-Bromofluorobenzene 95.6% 88.5-103

| MW-102 (W408044-02) Water | Sampled: 08/03/04 00:00 | Received: 08/04/04 12:52 |  | G21, QC |
|---------------------------|-------------------------|--------------------------|--|---------|
|---------------------------|-------------------------|--------------------------|--|---------|

| 1.30 | 0.500                                    | ug/l   | 1  | 4080054  | 08/14/04   | 08/19/04  | EPA 8260B   |
|------|--|--|--|--|--|---|---|
| ND   | 5.00                                     | "  | 11   | Ħ  | "  | 11  | n .   |
| ND   | 0.391                                    | 11   | **   | н  | "  | 11  |   |
| ND   | 5.00                                     | "  | 11   | п  | "  | **  | H   |
| ND   | 5.00                                     | **   | 11   | **   | "  | "   | "   |
| ND   | 5.00                                     | **   | 11   | **   | 11   | "   | "   |
| ND   | 0.372                                    | Ħ  | #  | **   | "  | n   | "   |
| ND   | 5.00                                     | **   | Ħ  | "  | n  | **  | "   |
| ND   | 5.00                                     | **   | 11   | "  | 11   | "   | "   |
| ND   | 0.316                                    | **   | "  | "  | 11   | "   |   |
| ND   | 0.448                                    | H  | "  | **   | n  | "   | "   |
| ND   | 5.00                                     | "  | **   | **   | н  | "   | "   |
| ND   | 5.00                                     | **   | "  | **   | II   | **  | "   |
| ND   | 5.00                                     | **   | "  | 11   | n  | **  | 11  |
| ND   | 0.264                                    | **   | "  | "  | "  | "   | 11  |
| ND   | 0.251                                    | "  | "  | 11   | н  | **  | 11  |
| ND   | 5.00                                     | 11   | **   | 11   | "  | **  | 11  |
| ND   | 5.00                                     | н  | "  | 78   | Ħ  | "   | **  |
| ND   | 5.00                                     | 11   | "  | 11 .   | "  | 11  | 11  |
| ND   | 5.00                                     | *  | "  | 11   | "  | H   | #   |
| ND   | 5.00                                     | **   | **   | 11   | "  | n   | **  |
| ND   | 0.500                                    | "  | "  | **   | . "  | n n   | **  |
| ND · | 0.500                                    | "  | **   | 11   | "  | · ·   | n   |
| 11.3 | 5.00                                     | 11   | "  | 11   | "  | "   | n   |
| ND   | 5.00                                     | **   | **   | "  | "  | **  | ır  |
| ND   | 0.500                                    | "  | "  | 11   | "  | **  | IT  |
| ND   | 5.00                                     | H .  | "  | 11   | "  | 11  | н   |
| ND   | 5.00                                     | "  | "  | "  | "  | 11  | . "   |
|      | ND N | ND         5.00           ND         0.391           ND         5.00           ND         5.00           ND         5.00           ND         5.00           ND         5.00           ND         0.316           ND         0.448           ND         5.00           ND         0.500           ND         5.00           ND <td>ND 5.00 " ND 0.391 " ND 5.00 " ND 0.316 " ND 0.448 " ND 5.00 " ND 0.264 " ND 0.251 " ND 5.00 " ND 0.500 " ND 0.500 " ND 5.00 " ND 5.00 " ND 5.00 "</td> <td>ND 5.00 " " " ND 0.391 " " ND 5.00 " " " ND 5.00 " " " " " ND 5.00 " " " " " " " " " " " " " " " " " "</td> <td>ND 5.00 " " " " " ND 0.391 " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " " " ND 5.00 " " " " " " " " " " " " " " " " " "</td> <td>ND 5.00 " " " " " " ND 5.00 " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " " ND 5.00 " " " " " " " " ND 5.00 " " " " " " " " " ND 5.00 " " " " " " " " " " ND 5.00 " " " " " " " " " " " ND 5.00 " " " " " " " " " " " " " " " " " "</td> <td>ND 5.00 " " " " " " " " " " ND 5.00 " " " " " " " " " " " " " " " " " "</td> | ND 5.00 " ND 0.391 " ND 5.00 " ND 0.316 " ND 0.448 " ND 5.00 " ND 0.264 " ND 0.251 " ND 5.00 " ND 0.500 " ND 0.500 " ND 5.00 " ND 5.00 " ND 5.00 " | ND 5.00 " " " ND 0.391 " " ND 5.00 " " " ND 5.00 " " " " " ND 5.00 " " " " " " " " " " " " " " " " " " | ND 5.00 " " " " " ND 0.391 " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " " " ND 5.00 " " " " " " " " " " " " " " " " " " | ND 5.00 " " " " " " ND 5.00 " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " ND 5.00 " " " " " " " " ND 5.00 " " " " " " " " ND 5.00 " " " " " " " " " ND 5.00 " " " " " " " " " " ND 5.00 " " " " " " " " " " " ND 5.00 " " " " " " " " " " " " " " " " " " | ND 5.00 " " " " " " " " " " ND 5.00 " " " " " " " " " " " " " " " " " " |

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

#### WDNR Volatile Organic Compounds by Method 8260

## Great Lakes Analytical--Oak Creek

|                                  |                         | Reporting |           |          |         |          |          | 36.1.1    |         |
|----------------------------------|-------------------------|-----------|-----------|----------|---------|----------|----------|-----------|---------|
| Analyte                          | Result                  | Limit     | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Note:   |
| MW-102 (W408044-02) Water        | Sampled: 08/03/04 00:00 | Receive   | d: 08/04/ | 04 12:52 |         |          |          |           | G21, Q0 |
| Di-isopropyl ether               | ND                      | 5.00      | ug/l      | 1        | 4080054 | 08/14/04 | 08/19/04 | EPA 8260B |         |
| Ethylbenzene                     | ND                      | 5.00      | "         | **       | **      | 11       | "        | Ħ         |         |
| Hexachlorobutadiene              | ND                      | 10.0      | **        | Ħ        | ,,      | "        | •        | **        |         |
| Isopropylbenzene                 | ND                      | 5.00      | **        | #        | "       | "        | "        | n         |         |
| p-Isopropyltoluene               | ND                      | 5.00      | **        | 11       | "       | "        | **       | 19        |         |
| Methylene chloride               | ND                      | 0.386     | 11        | "        | **      | "        | **       | "         |         |
| Methyl tert-butyl ether          | ND                      | 0.290     | "         | 11       | H       | н        | 19       | 11        |         |
| Naphthalene                      | ND                      | 8.00      | "         | **       | "       | ti       | **       | **        |         |
| n-Propylbenzene                  | ND                      | 5.00      | **        | **       | 11      | **       | 19       | **        |         |
| 1,1,2,2-Tetrachloroethane        | ND                      | 0.331     | **        | ,<br>,   | "       | "        | 10       | **        |         |
| Tetrachloroethene                | ND                      | 0.500     | **        | Ħ        | "       | "        | "        | **        |         |
| Toluene                          | ND                      | 5.00      | "         | 11       | **      | "        | **       | n         |         |
| 1,2,3-Trichlorobenzene           | ND                      | 10.0      | 11        | "        | 11      | "        | **       | n         |         |
| 1,2,4-Trichlorobenzene           | ND                      | 10.0      | Ħ         | "        | н       | "        | 10       | 11        |         |
| 1,1,1-Trichloroethane            | ND                      | 5.00      | 11        | **       | H       | 17       | "        | 11        |         |
| 1,1,2-Trichloroethane            | ND                      | 0.145     | "         | **       | н       | "        | 10       |           |         |
| Trichloroethene                  | 11.1                    | 0.500     | 11        | **       | **      | . "      | **       | "         |         |
| Trichlorofluoromethane           | ND                      | 5.00      | "         | "        | "       |          | **       | "         |         |
| 1,2,4-Trimethylbenzene           | ND                      | 5.00      | "         | **       | 11      | Ħ        | 11       | "         |         |
| 1,3,5-Trimethylbenzene           | ND                      | 5.00      | "         | "        | **      | 11       | "        | **        |         |
| Vinyl chloride                   | ND                      | 0.217     | "         | *1       | "       | 11       | "        | "         | G1-     |
| Total Xylenes                    | ND                      | 5.00      | **        | 11       | H       |          | H        |           |         |
| Surrogate: Dibromofluoromethan   | e                       | 80.8 %    | 82.1      | '-117    | "       | "        | n        | <b>"</b>  | L       |
| Surrogate: 1,2-Dichloroethane-d4 |                         | 71.0 %    | 70.2      | ?-131    | "       | "        | n .      | "         |         |
| Surrogate: Toluene-d8            |                         | 102 %     | 74.1      | '-125    | "       | "        | "        | "         |         |
| Surrogate: 4-Bromofluorobenzene  | 2                       | 99.4 %    | 88 4      | 5-103    | "       | "        | "        | "         |         |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

## WDNR Volatile Organic Compounds by Method 8260

#### Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Leporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-103 (W408044-03) Water   | Sampled: 08/03/04 00:00 | Receive            | d: 08/04/0 | 04 12:52 |         |          |          |           | QC    |
| Benzene                     | ND                      | 0.500              | ug/l       | 1        | 4080054 | 08/14/04 | 08/16/04 | EPA 8260B |       |
| Bromobenzene                | ND                      | 5.00               | 11         | 11       | **      | "        | "        | "         |       |
| Bromodichloromethane        | ND                      | 0.391              | "          | "        | н       | *        | **       | n         |       |
| n-Butylbenzene              | ND                      | 5.00               | **         | **       | u .     | If       | **       | "         |       |
| sec-Butylbenzene            | ND                      | 5.00               | **         | **       | "       |          | 11       | n         |       |
| tert-Butylbenzene           | ND                      | 5.00               | **         | **       | "       | #        | **       | H         |       |
| Carbon tetrachloride        | ND                      | 0.372              | Ħ          | n        | "       | 11       | **       | n         |       |
| Chlorobenzene               | ND                      | 5.00               | 11         | Ħ        | **      | **       | **       | **        |       |
| Chloroethane                | ND                      | 5.00               | 11         | 11       | n       | **       | **       | "         |       |
| Chloroform                  | ND                      | 0.316              | 11         | 11       | H       | "        | "        | "         |       |
| Chloromethane               | ND                      | 0.448              | ***        |          | 11      | Ħ        | "        | rr .      |       |
| 2-Chlorotoluene             | ND                      | 5.00               | "          | "        | 17      | **       | **       | n         |       |
| 4-Chlorotoluene             | ND                      | 5.00               | n          | **       | 11      | **       | "        | n         |       |
| Dibromochloromethane        | ND                      | 5.00               | **         | ",       | 11      | "        | "        | 11        |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.264              | 11         | n        | **      | 11       | **       | n         |       |
| 1,2-Dibromoethane           | ND                      | 0.251              | Ħ          | н        | 17      | "        | 11       | n         |       |
| 1,2-Dichlorobenzene         | ND                      | 5.00               | 11         | 11       | "       | **       | 11       | n         |       |
| 1,3-Dichlorobenzene         | ND                      | 5.00               | 11         | #        | "       | "        | 11       | 11        |       |
| 1,4-Dichlorobenzene         | ND                      | 5.00               | 11         | н        | **      | - #      | **       | 11        |       |
| Dichlorodifluoromethane     | ND                      | 5.00               | 11         |          | H       |          | "        | **        |       |
| 1,1-Dichloroethane          | ND                      | 5.00               | "          | "        | н       | **       | "        | **        |       |
| 1,2-Dichloroethane          | ND                      | 0.500              | 11         | "        | н       | **       | **       | 11        |       |
| 1,1-Dichloroethene          | ND                      | 0.500              | 11         | 11       | H       | **       | **       | "         |       |
| ‡is-1,2-Dichloroethene      | ND                      | 5.00               | "          | 11       |         | **       |          | "         |       |
| trans-1,2-Dichloroethene    | ND<br>ND                | 5.00               | **         |          | "       | "        | **       | n         |       |
| 1,2-Dichloropropane         | ND                      | 0.500              | **         | **       |         | "        | 11       | **        |       |
| 1,3-Dichloropropane         | ND                      | 5.00               | **         | "        |         | **       |          | •         |       |
| 2,2-Dichloropropane         | ND<br>ND                | 5.00               | **         | 11       | "       | tr       | . "      | "         |       |
| Di-isopropyl ether          | ND<br>ND                | 5.00               | **         | n        | "       | tt.      |          | H.        |       |
| Ethylbenzene                | ND<br>ND                | 5.00               | п          | 11       | ,,      | n .      |          | n         | G1:   |
| Hexachlorobutadiene         | ND<br>ND                | 10.0               | н          | 11       | ,,      | ti .     | "        | "         | Gi.   |
| Isopropylbenzene            | ND<br>ND                | 5.00               | 11         | n        | "       | н        | **       | н         |       |
| * **                        |                         |                    | ,,         | "        | 17      | 11       | 11       | n         |       |
| p-Isopropyltoluene          | ND                      | 5.00               | ,,         |          | H       | 11       | **       | 11        |       |
| Methylene chloride          | ND                      | 0.386              | ,,         | "        |         | ,,       | "        | n         |       |
| Methyl tert-butyl ether     | ND                      | 0.290              | "          |          | "       |          | 11       |           |       |
| Naphthalene                 | ND                      | 8.00               | "          |          | "       | "        | "        | <br>H     |       |
| n-Propylbenzene             | ND                      | 5.00               |            |          | "       | "        | 11       |           |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.331              | "          | "        |         |          |          |           |       |
| Tetrachloroethene           | ND                      | 0.500              | tt .       | "        | ,,      | "        |          | "         |       |
| Toluene                     | ND                      | 5.00               | Ħ          | **       | "       | **       | **       | "         |       |
| d,2,3-Trichlorobenzene      | ND                      | 10.0               | 11         | Ħ        | "       | n        | **       | "         |       |
| 1,2,4-Trichlorobenzene      | ND                      | 10.0               |            | "        | **      | "        | 11       | n .       |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

#### WDNR Volatile Organic Compounds by Method 8260

#### Great Lakes Analytical--Oak Creek

| Analyte  | Result                 | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Not |
|--|------------------------|--------------------|-----------|----------|---------|----------|----------|-----------|-----|
| MW-103 (W408044-03) Water  | Sampled: 08/03/04 00:0 | 0 Receive          | d: 08/04/ | 04 12:52 |         | · -      |          |           | (   |
| 1,1,1-Trichloroethane  | ND                     | 5.00               | ug/l      | 1        | 4080054 | 08/14/04 | 08/16/04 | EPA 8260B |     |
| 1,1,2-Trichloroethane  | ND                     | 0.145              | н         |          | "       | "        | **       | "         |     |
| Trichloroethene  | ND                     | 0.500              | 11        | **       | **      | "        | "        | tt        |     |
| Trichlorofluoromethane   | ND                     | 5.00               | 11        | **       | "       | **       | ••       | **        |     |
| 1,2,4-Trimethylbenzene   | ND                     | 5.00               | **        | **       | 11      | **       | "        | 11        |     |
| 1,3,5-Trimethylbenzene   | ND                     | 5.00               | **        | **       | u       | "        | "        | 11        |     |
| Vinyl chloride   | ND                     | 0.217              | Ħ         | u        | **      | "        | **       | **        | G   |
| Total Xylenes  | ND                     | 5.00               | н         | **       | **      | "        | 11       | "         |     |
| Surrogate: Dibromofluoromethan   | e                      | 65.8 %             | 82.1      | '-117    | "       | "        | "        | "         | L   |
| Surrogate: 1,2-Dichloroethane-d4                                       |                        | 74.4 %             | 70.2      | ?-131    | "       | n        | "        | "         |     |
| Surrogate: Toluene-d8  |                        | 104 %              |           | -125     | "       | "        | "        | "         |     |
| Surrogate: 4-Bromofluorobenzene  | ?                      | 92.4 %             |           | 5-103    | "       | "        | "        | "         |     |
| <br>MW-7 (W408044-04) Water S:   | ampled: 08/03/04 00:00 | Received:          | 08/04/04  | 12:52    |         |          |          |           | Ç   |
| Benzene  | ND                     | 0.500              | ug/l      | 1        | 4080054 | 08/14/04 | 08/17/04 | EPA 8260B |     |
| Bromobenzene   | ND                     | 5.00               | 11        | **       | u       | н .      | "        | "         |     |
| Bromodichloromethane   | 0.900                  | 0.391              | u         | **       | **      | "        | **       | #         |     |
| n-Butylbenzene   | ND                     | 5.00               | н         | "        | II      | 11       | ••       | **        |     |
| ec-Butylbenzene  | ND                     | 5.00               | Ħ         | tt       | **      | **       | **       | n         |     |
| ert-Butylbenzene   | ND                     | 5.00               | 11        | n        | n       | **       | ••       | "         |     |
| Carbon tetrachloride   | ND                     | 0.372              | 11        | 11       | 11      | "        | "        | n         |     |
| Chlorobenzene  | ND                     | 5.00               | 11        | 11       | "       | "        | "        | **        |     |
| Chloroethane   | ND                     | 5.00               | 11        | n        | "       | **       | **       | "         |     |
|  | ND                     | 0.316              | **        | 11       | "       | **       | "        | **        |     |
| Chloromethane  | ND                     | 0.448              | **        | **       | 11      | . 41     | **       | 11        |     |
| 2-Chlorotoluene  | ND                     | 5.00               | **        | **       | **      | н        | 11       | **        |     |
| 1-Chlorotoluene  | ND                     | 5.00               | 11        | "        | **      | n        | н        | **        |     |
| Dibromochloromethane   | ND                     | 5.00               | 19        | **       | **      | 11       | "        | "         |     |
| 1,2-Dibromo-3-chloropropane  | ND                     | 0.264              | 19        | 11       | Ħ       | "        | ••       | ••        |     |
| ,2-Dibromoethane   | ND                     | 0.251              | **        | "        | н       | **       | "        | "         |     |
| ,2-Dichlorobenzene   | ND                     | 5.00               | Př        | 11       | 11      | "        | "        | "         |     |
| 1,3-Dichlorobenzene  | ND                     | 5.00               | н         |          | **      | n        | **       | 11        |     |
| 1,4-Dichlorobenzene  | ND                     | 5.00               | н         | "        | **      | n .      | n        | **        |     |
| Dichlorodifluoromethane  | ND                     | 5.00               | #         | n        | n       | n        | н        | **        |     |
| 1,1-Dichloroethane   | ND                     | 5.00               | 11        | ,,       | "       | 11       | 11       | 11        |     |
| 1,2-Dichloroethane   | ND                     | 0.500              | ,,        | **       | н       | "        | 11       | **        |     |
| I,1-Dichloroethene   | 10.8                   | 0.500              | ,,        | **       | н       | "        | **       | "         |     |
| is-1,2-Dichloroethene  | ND                     | 5.00               | **        | "        | 11      | "        | **       |           |     |
|  | ND                     | 5.00               | 11        | **       | 11      | n        | "        |           |     |
| trans-1 7-Dichloroethene   | 110                    | 2.00               |           |          |         |          |          |           |     |
| trans-1,2-Dichloroethene  1 2-Dichloropropane                          |                        | 0.500              | **        | "        | **      | 11       | *        | **        |     |
| trans-1,2-Dichloroethene<br>1,2-Dichloropropane<br>1,3-Dichloropropane | ND<br>ND               | 0.500<br>5.00      | "         | "        | "       | "        | "        | n<br>tr   |     |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

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Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

## **WDNR Volatile Organic Compounds by Method 8260**

## Great Lakes Analytical--Oak Creek

| Analyte                        | Result                  | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Note |
|--------------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|------|
| MW-7 (W408044-04) Water        | Sampled: 08/03/04 00:00 | Received:          | 08/04/04 | 12:52    |         |          |          |           | Q    |
| Di-isopropyl ether             | ND                      | 5.00               | ug/l     | 1        | 4080054 | 08/14/04 | 08/17/04 | EPA 8260B |      |
| Ethylbenzene                   | ND                      | 5.00               | **       | "        | " .     | **       | "        | 11        |      |
| Hexachlorobutadiene            | ND                      | 10.0               | 11       | "        | "       | tt       | H        | 11        |      |
| Isopropylbenzene               | ND                      | 5.00               | n        | "        | Ħ       | II .     | "        | **        |      |
| ⇒-Isopropyltoluene             | ND                      | 5.00               | **       | Ħ        | 11      | 11       | "        | "         |      |
| Methylene chloride             | ND                      | 0.386              | 10       | **       | "       | 11       | **       | **        |      |
| Methyl tert-butyl ether        | ND                      | 0.290              | "        | "        | "       | "        | **       | **        |      |
| Naphthalene                    | ND                      | 8.00               | "        | "        | "       | **       | **       | n         |      |
| ¬-Propylbenzene                | ND                      | 5.00               | **       | Ħ        | n       | Ħ        | er er    | Ħ         |      |
| ,1,2,2-Tetrachloroethane       | ND                      | 0.331              | "        | н        | "       | II       | **       | n         |      |
| Tetrachloroethene              | 2.39                    | 0.500              | "        | 11       | н       | 11       | **       | "         |      |
| Toluene                        | ND                      | 5.00               | "        | **       | **      | 11       | #        | "         |      |
| ■,2,3-Trichlorobenzene         | ND                      | 10.0               | #        | "        | "       | "        | n        | ıı        |      |
| ■,2,4-Trichlorobenzene         | ND                      | 10.0               | Ħ        | "        | "       | "        | **       | H         |      |
| 1,1,1-Trichloroethane          | 35.6                    | 5.00               | Ħ        | **       | n       | **       | "        | **        |      |
| ■,1,2-Trichloroethane          | ND                      | 0.145              | 11       | **       | n       | 11       | **       | H         |      |
| <b>T</b> richloroethene        | 79.7                    | 0.500              | 11       | 11       | **      | tt       | **       | Ħ         |      |
| Trichlorofluoromethane         | ND                      | 5.00               | 11       | 11       | 11      | II       | **       | 11        |      |
| 1,2,4-Trimethylbenzene         | ND                      | 5.00               | "        | 11       | "       | Ħ        | **       | 11        |      |
| ,3,5-Trimethylbenzene          | ND                      | 5.00               | **       | ***      | "       | 11       | **       | 11        |      |
| √inyl chloride                 | ND                      | 0.217              | **       | "        | "       | 11       | "        | 11        | G1-  |
| Total Xylenes                  | ND                      | 5.00               | **       |          | "       | 11       | rr       | "         |      |
| ∃urrogate: Dibromofluorometh   | ane                     | 77.0 %             | 82.1     | -117     | "       | "        | "        | "         | L    |
| Jurrogate: 1,2-Dichloroethane- |                         | 73.8 %             | 70.2     | -131     | "       | "        | "        | "         |      |
| Surrogate: Toluene-d8          |                         | 96.8 %             | 74.1     |          | "       | "        | "        | "         |      |
| Şurrogate: 4-Bromofluorobenze  | ene                     | 96.2 %             | 88.5     |          | "       | "        | "        | "         |      |

-Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

#### WDNR Volatile Organic Compounds by Method 8260

## Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units   | Dilution | Batch   | Prepared | Analyzed | Method    | Note |
|-----------------------------|-------------------------|--------------------|---------|----------|---------|----------|----------|-----------|------|
| PZ-1 (W408044-05) Water     | Sampled: 08/03/04 00:00 | Received: 0        | 8/04/04 | 12:52    |         |          |          |           | Q    |
| Benzene                     | ND                      | 0.500              | ug/l    | 1        | 4080054 | 08/14/04 | 08/17/04 | EPA 8260B |      |
| Bromobenzene                | ND                      | 5.00               | 'n      |          | н       | 11       | **       | н         |      |
| Bromodichloromethane        | 4.57                    | 0.391              | н       | 11       | 11      | **       |          | 11        | *    |
| n-Butylbenzene              | ND                      | 5.00               | н       | п        | "       | n        | "        | n         |      |
| sec-Butylbenzene            | ND                      | 5.00               | 19      | "        | 11      | 11       | **       | 11        |      |
| tert-Butylbenzene           | ND                      | 5.00               | 11      | 11       | "       | 11       | "        | n ·       |      |
| Carbon tetrachloride        | ND                      | 0.372              | 11      | "        | "       | 11       | **       | 11        |      |
| Chlorobenzene               | ND .                    | 5.00               | **      | n        | "       | 11       | **       | "         |      |
| Chloroethane                | ND                      | 5.00               | **      | 11       | Ħ       | "        | **       | "         |      |
| Chloroform                  | ND                      | 0.316              | tt      | 11       | н       | **       | **       | "         |      |
| Chloromethane               | ND                      | 0.448              | n       | "        | н       | **       | **       |           |      |
| 2-Chlorotoluene             | ND                      | 5.00               | н       | "        | н       | **       | 91       | "         |      |
| 4-Chlorotoluene             | ND                      | 5.00               | н       | "        | **      | **       | **       | "         |      |
| Dibromochloromethane        | . ND                    | 5.00               | **      | "        | **      | "        | **       | **        |      |
| 1,2-Dibromo-3-chloropropane | e ND                    | 0.264              | 11      | "        | Ħ       | **       | **       | "         |      |
| 1,2-Dibromoethane           | ND                      | 0.251              | Ħ       | **       | **      | **       | **       | "         |      |
| 1,2-Dichlorobenzene         | ND                      | 5.00               | **      | 11       | **      | **       | **       | "         |      |
| 1,3-Dichlorobenzene         | ND                      | 5.00               | н       | **       | H       | 11       | **       | "         |      |
| 1,4-Dichlorobenzene         | ND                      | 5.00               | "       | **       | u       | **       | **       | "         |      |
| Dichlorodifluoromethane     | ND                      | 5.00               | **      | "        | и       | "        | **       | и         |      |
| 1,1-Dichloroethane          | 50.1                    | 5.00               | **      | "        | н       | **       | **       | 11        |      |
| 1,2-Dichloroethane          | ND                      | 0.500              | н       | **       | n       | **       | **       | **        |      |
| 1,1-Dichloroethene          | 108                     | 0.500              | Ħ       | "        |         | **       | **       | 11        |      |
| cis-1,2-Dichloroethene      | 128                     | 5.00               | **      | **       |         | **       | n        | п         |      |
| trans-1,2-Dichloroethene    | ND                      | 5.00               | н       | "        | u       | **       |          | Ħ         |      |
| 1,2-Dichloropropane         | ND                      | 0.500              | **      | **       |         | **       | ••       | н         |      |
| 1,3-Dichloropropane         | ND                      | 5.00               | **      | **       | n       | 11       | ••       | н         |      |
| 2,2-Dichloropropane         | ND                      | 5.00               | **      | H        |         | **       | **       | Ħ         |      |
| Di-isopropyl ether          | ND                      | 5.00               | "       | 11       |         | **       |          | п         |      |
| Ethylbenzene                | ND                      | 5.00               | "       | н        | н       | •        |          | п         | GI   |
| Hexachlorobutadiene         | ND                      | 10.0               | 11      | 11       | и       | "        |          | **        | O.   |
| Isopropylbenzene            | ND<br>ND                | 5.00               | "       | Ħ        | н       | **       | н        | **        |      |
| p-Isopropyltoluene          | ND                      | 5.00               | "       | 11       | H       | **       | "        | n         |      |
| Methylene chloride          | ND                      | 0.386              | **      | 11       |         | **       |          | **        |      |
| Methyl tert-butyl ether     | ND                      | 0.290              | "       | 11       |         | **       | ••       | n         |      |
| Naphthalene                 | ND                      | 8.00               | "       | n        | u       | **       | **       | н         |      |
| n-Propylbenzene             | ND                      | 5.00               | "       | IT       | n n     | 11       | •        | "         |      |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.331              | "       | n        | н       | **       | **       | n         |      |
| Tetrachloroethene           | 4.20                    | 0.500              | **      | 11       | 11      | **       |          | **        |      |
| Toluene                     | 4.20<br>ND              | 5.00               | "       | 11       | 11      | ••       | **       | tt .      |      |
| 1,2,3-Trichlorobenzene      | ND<br>ND                | 10.0               | "       | 11       | 11      | **       | **       | n         |      |
| 1,2,4-Trichlorobenzene      | ND<br>ND                | 10.0               | **      |          | **      |          | H        | н         |      |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt Reported: 08/20/04 09:52

## WDNR Volatile Organic Compounds by Method 8260

## Great Lakes Analytical--Oak Creek

| Analyte                      | Result                  | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared  | Analyzed | Method    | Notes   |
|------------------------------|-------------------------|--------------------|-----------|----------|---------|-----------|----------|-----------|---------|
| PZ-1 (W408044-05) Water      | Sampled: 08/03/04 00:00 | Received: 0        | 8/04/04 1 | 12:52    |         |           |          |           | QC      |
| 1,1,1-Trichloroethane        | 304                     | 100                | ug/l      | 20       | 4080054 | 08/14/04  | 08/19/04 | EPA 8260B | G20     |
| 1,1,2-Trichloroethane        | ŃД                      | 0.145              | **        | 1        | "       | "         | 08/17/04 | Ħ         |         |
| Trichloroethene              | 405                     | 10.0               | 11        | 20       | "       | "         | 08/19/04 | "         | G20     |
| Trichlorofluoromethane       | ND                      | 5.00               | "         | 1        | H       | 11        | 08/17/04 | "         |         |
| 1,2,4-Trimethylbenzene       | ND                      | 5.00               | "         | "        | Ħ       | "         | "        | " .       |         |
| 1,3,5-Trimethylbenzene       | ND                      | 5.00               | **        | **       | 11      |           | "        | **        |         |
| Vinyl chloride               | 15.1                    | 0.217              | **        | H        |         | <b>'H</b> | **       |           | G14     |
| Total Xylenes                | ND                      | 5.00               | It        |          |         |           | **       |           |         |
| Surrogate: Dibromofluorome   |                         | 83.6 %             |           | -117     | "       | "         | "        | n         |         |
| Surrogate: 1,2-Dichloroethan | ne-d4                   | 78.8 %             |           | ?-131    | "       | "         | "        | "         |         |
| Surrogate: Toluene-d8        |                         | 101 %              |           | -125     | "       | "         | "        | "         |         |
| Surrogate: 4-Bromofluoroben  | nzene                   | 96.8 %             | 88.5      | 5-103    | "       | "         | "        | "         |         |
| MW-9 (W408044-06) Water      | Sampled: 08/03/04 00:00 | Received:          | 08/04/04  | 12:52    |         |           |          |           | G21, QC |
| Benzene                      | 3.92                    | 0.500              | ug/l      | 1        | 4080054 | 08/14/04  | 08/19/04 | EPA 8260B |         |
| Bromobenzene                 | ND                      | 5.00               | **        | "        | 11      | **        | "        | **        |         |
| Bromodichloromethane         | ND                      | 0.391              | **        | **       | "       | 11        | 11       | **        |         |
| n-Butylbenzene               | 32.2                    | 5.00               | "         | 11       |         | "         | "        | **        |         |
| sec-Butylbenzene             | ND                      | 5.00               | "         | **       | 11      | "         | **       | **        |         |
| tert-Butylbenzene            | 6.13                    | 5.00               | **        | lt.      | **      | **        | **       | **        |         |
| Carbon tetrachloride         | ND                      | 0.372              | 14        | 11       | 11      | "         | **       | **        |         |
| Chlorobenzene                | ND                      | 5.00               | **        | **       | "       | "         | **       | **        |         |
| Chloroethane                 | ND                      | 5.00               | "         | 11       | ••      | "         | "        | "         |         |
| Chloroform                   | ND                      | 0.316              | "         | "        | "       | "         | 11       | **        |         |
| Chloromethane                | ND                      | 0.448              | **        | **       | **      | "         | **       | "         |         |
| 2-Chlorotoluene              | ND                      | 5.00               | "         | **       | "       | "         | 11       | **        |         |
| 4-Chlorotoluene              | ND                      | 5.00               | **        | **       | н       | **        | 11       | **        |         |
| Dibromochloromethane         | ND                      | 5.00               | 11        |          | п       | II .      | 11       | n         |         |
| 1,2-Dibromo-3-chloropropane  | e ND                    | 0.264              | **        | "        | 11      | If        | **       | **        |         |
| 1,2-Dibromoethane            | ND                      | 0.251              | **        | н        | н       | Ü         | ***      | 11        |         |
| 1,2-Dichlorobenzene          | ND                      | 5.00               | 11        | 16       |         | 11        | **       | 11        |         |
| 1,3-Dichlorobenzene          | ND                      | 5.00               | **        | 11       |         | "         | **       | 17        |         |
| 1,4-Dichlorobenzene          | ND                      | 5.00               | **        | 11       | 19      | 11        | **       | 11        |         |
| Dichlorodifluoromethane      | ND                      | 5.00               | 11        | **       | **      | 11        | ••       | 19        |         |
| 1,1-Dichloroethane           | ND                      | 5.00               | "         | "        | **      | 11        | "        | n         |         |
| 1,2-Dichloroethane           | ND                      | 0.500              | ••        | **       | "       | 11        | n        | "         |         |
| 1,1-Dichloroethene           | 2.79                    | 0.500              | "         | "        | Ħ       | "         | 'n       | . "       |         |
| ⊇is-1,2-Dichloroethene       | 182                     | 50.0               | tt        | 10       | "       | "         | 08/19/04 | "         |         |
| trans-1,2-Dichloroethene     | ND                      | 5.00               | Ħ         | 1        | n       | , "       | 08/19/04 | "         |         |
| 1,2-Dichloropropane          | ND                      | 0.500              | Ħ         | tt       | **      | "         | 11       | **        |         |
|                              |                         |                    |           |          | 11      | 11        | 11       |           |         |
| ■,3-Dichloropropane          | ND                      | 5.00               | 11        | 17       |         | •         | ••       |           |         |

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

#### WDNR Volatile Organic Compounds by Method 8260

Great Lakes Analytical--Oak Creek

| Analyte                        | Result                  | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes   |
|--------------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|---------|
| MW-9 (W408044-06) Water        | Sampled: 08/03/04 00:00 | Received:          | 08/04/04 | 12:52    |         |          |          |           | G21, QC |
| Di-isopropyl ether             | ND                      | 5.00               | ug/l     | 1        | 4080054 | 08/14/04 | 08/19/04 | EPA 8260B |         |
| Ethylbenzene                   | 896                     | 50.0               | 11       | 10       | " .     | н        | 08/19/04 | 11        |         |
| Hexachlorobutadiene            | ND                      | 10.0               | 11       | 1        | **      | 11       | 08/19/04 | 11        |         |
| Isopropylbenzene               | 61.6                    | 5.00               | н        | "        | **      | 11       | "        | 11        |         |
| Isopropyltoluene               | 59.8                    | 5.00               | 11       | **       | **      | 11       | **       | 11        |         |
| Methylene chloride             | ND                      | 0.386              | **       | "        | "       | н        | n        | 11        |         |
| Methyl tert-butyl ether        | ND                      | 0.290              | "        | "        | Ħ       | 11       | 11       | 11        |         |
| Naphthalene                    | 166                     | 80.0               | **       | 10       | **      | 11       | 08/19/04 | 11        |         |
| 1-Propylbenzene                | 104                     | 5.00               | **       | 1        | n       | **       | 08/19/04 | "         |         |
| 1,1,2,2-Tetrachloroethane      | ND                      | 0.331              | **       | н        | Ħ       | **       | **       | "         |         |
| Tetrachloroethene              | ND                      | 0.500              | **       | 11       | "       | **       | 11       | 11        |         |
| <b>F</b> oluene                | 9.56                    | 5.00               | "        | 11       | tt      | **       | "        | **        |         |
| ,2,3-Trichlorobenzene          | ND                      | 10.0               | **       | 11       | "       | **       | **       | "         |         |
| 1,2,4-Trichlorobenzene         | ND                      | 10.0               |          | 17       | 11      | "        | 11       | **        |         |
| 1,1,1-Trichloroethane          | ND                      | 5.00               | **       | "        | 11      | 11       | 11       | **        |         |
| 1,1,2-Trichloroethane          | ND                      | 0.145              | **       | "        | **      | 11       | **       | **        |         |
| <b>Frichloroethene</b>         | 76.5                    | 0.500              | "        | **       | **      | 71       | **       | **        |         |
| Trichlorofluoromethane         | ND                      | 5.00               | **       | 11       | **      | 11       | **       | ar .      |         |
| 1,2,4-Trimethylbenzene         | 1310                    | 50.0               | "        | 10       | **      | **       | 08/19/04 | 11        |         |
| ,3,5-Trimethylbenzene          | 352                     | 50.0               | **       | **       | **      | 11       | **       | **        |         |
| Vinyl chloride                 | 68.2                    | 0.217              | **       | 1        | **      | 11       | 08/19/04 | 11        | G14     |
| Total Xylenes                  | 2310                    | 50.0               | n        | 10       | н       | 11       | 08/19/04 | **        |         |
| Surrogate: Dibromofluoromethe  | nne                     | 95.4 %             | 82.1     | -117     | "       | "        | 08/19/04 | "         |         |
| Surrogate: 1,2-Dichloroethane- |                         | 93.2 %             |          | 2-131    | "       | n        | "        | "         |         |
| Surrogate: Toluene-d8          |                         | 99.2 %             |          | -125     | "       | "        | "        | "         |         |
| Surrogate: 4-Bromofluorobenze  | ne                      | 96.8 %             |          | 5-103    | "       | "        | "        | "         |         |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt Reported: 08/20/04 09:52

#### WDNR Volatile Organic Compounds by Method 8260

#### Great Lakes Analytical--Oak Creek

| Analyte                                 | Result   | Reporting<br>Limit | Units   | Dilution    | Batch      | Prepared | Analyzed      | Method    | Notes    |
|---|----------|--------------------|---------|-------------|------------|----------|---------------|-----------|----------|
| MW-9 (Free Product) (W408044-07) Water  | Sampled  | : 08/03/04 00      | :00 Rec | eived: 08/0 | 04/04 12:5 | 52       |               |           | QC       |
| Benzene                                 | ND       | 500                | ug/l    | 1000        | 4080054    | 08/14/04 | 08/17/04      | EPA 8260B |          |
| Bromobenzene                            | ND       | 5000               | 11      | tt          | "          | H        | **            | **        |          |
| Bromodichloromethane                    | ND       | 391                | 11      | н           | 11         | 11       | **            | 17        |          |
| n-Butylbenzene                          | 83700    | 5000               | **      | **          | 11         | 11       | 11            | **        |          |
| sec-Butylbenzene                        | ND       | 5000               | **      | "           | 11         | "        | H             | **        |          |
| ert-Butylbenzene                        | 51200    | 5000               | 11      | "           | 11         | "        | **            | **        |          |
| Carbon tetrachloride                    | NĐ       | 372                | **      | "           | 11         | "        |               | п .       |          |
| Chlorobenzene                           | ND       | 5000               | **      | n           | "          | "        | **            | Ħ         |          |
| Chloroethane                            | ND       | 5000               | н       | n           | **         | "        | **            | **        |          |
| Chloroform                              | ND       | 316                | н       | **          | "          | H        | **            | 11        |          |
| Chloromethane                           | ND       | 448                | Ħ       | **          | n          | н        | 19            | **        |          |
| 2-Chlorotoluene                         | ND       | 5000               | **      | "           | н          | u        | 11            | "         |          |
| 4-Chlorotoluene                         | ND       | 5000               | 11      | "           | n          | 11       | **            | "         |          |
| Dibromochloromethane                    | ND       | 5000               | 11      | "           | н          | n        | **            | **        |          |
| 1,2-Dibromo-3-chloropropane             | ND       | 264                | "       |             | н          | 11       | 10            | "         |          |
| 1,2-Dibromoethane                       | ND       | 251                |         | **          | н          | H        | **            | **        |          |
| 1,2-Dichlorobenzene                     | ND       | 5000               | **      |             | 11         | H        |               | **        |          |
| 1,3-Dichlorobenzene                     | ND       | 5000               | **      | **          | 11         | и        | **            |           |          |
| 1,4-Dichlorobenzene                     | ND       | 5000               | 11      | **          | н          | U        | "             |           |          |
| Dichlorodifluoromethane                 | ND       | 5000               | **      | **          | н          | H        | **            | "         |          |
| ,1-Dichloroethane                       | ND       | 5000               | **      | **          | н          | u        | **            | "         | ÷        |
| 1,2-Dichloroethane                      | ND       | 500                | **      | **          | Ħ          | u u      | **            | **        |          |
| 1,1-Dichloroethene                      | ND       | 500                | **      | "           | tt         | **       | 11            | 11        |          |
| is-1,2-Dichloroethene                   | ND       | 5000               | **      | "           | н          | "        | 10            | **        |          |
| rans-1,2-Dichloroethene                 | ND       | 5000               | **      | **          | н          | **       | 11            | n         |          |
| 1,2-Dichloropropane                     | ND       | 500                | **      | **          | u          | **       | 19            | **        |          |
| 1,3-Dichloropropane                     | ND       | 5000               | **      | **          | н          | п        | **            | "         |          |
| 2,2-Dichloropropane                     | ND       | 5000               | **      | "           | н          | u        |               | "         |          |
| Di-isopropyl ether                      | ND       | 5000               | "       | "           | 11         | II.      | **            | "         |          |
| • | 290000   | 50000              | n       | 10000       | n          | H        | 08/18/04      | "         | G13, G20 |
| Hexachlorobutadiene                     | ND       | 10000              | п       | 1000        | 11         | Ħ        | 08/17/04      | 11        | 015, 020 |
| •                                       | 135000   | 5000               | 19      | 11          | 19         | н        | "             | **        | G20      |
|   | 280000   | 100000             | 11      | 20000       | 11         | II .     | 08/19/04      | ,,        | 020      |
| Methylene chloride                      | ND       | 386                | **      | 1000        | 11         | н        | 08/17/04      |           |          |
| Methyl tert-butyl ether                 | ND       | 290                | 11      | 1000        | 11         | н        | 11            | "         |          |
|   | 536000   | 80000              | **      | 10000       | 11         |          | 08/18/04      | "         | G20      |
| =                                       | 911000   | 50000              | ,,      | 10000       | 11         | **       | 00/10/04<br># | **        | G20      |
| 1,1,2,2-Tetrachloroethane               | ND       | 331                | **      | 1000        | "          | н        | 08/17/04      | **        | 020      |
| Tetrachloroethene                       | 630      | 500                |         | 1000        |            | **       | U0/17/U4<br>" | "         |          |
| Toluene                                 | ND       | 5000               | "       | .11         | **         | , 11     | **            | "         |          |
| 1,2,3-Trichlorobenzene                  | ND<br>ND | 10000              | 11      | "           | 11         | ,        | "             | ,,        |          |
| 1,2,4-Trichlorobenzene                  | ND<br>ND | 10000              |         | 11          | H          |          | **            | **        |          |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

## **WDNR Volatile Organic Compounds by Method 8260**

## Great Lakes Analytical--Oak Creek

| <del></del>                        |               |                    | <del></del> |              |            |          |          |           |   |             |
|------------------------------------|---------------|--------------------|-------------|--------------|------------|----------|----------|-----------|---|-------------|
| Analyte                            | Result        | Reporting<br>Limit | Units       | Dilution     | Batch      | Prepared | Analyzed | Method    |   | Notes       |
| MW-9 (Free Product) (W408044-07) V | Vater Sampled | 1: 08/03/04 00     | :00 Red     | ceived: 08/0 | 04/04 12:5 | 2        |          |           |   | QC          |
| 1,1,1-Trichloroethane              | ND            | 5000               | ug/l        | 1000         | 4080054    | 08/14/04 | 08/17/04 | EPA 8260B |   |             |
| 1,1,2-Trichloroethane              | ND            | 145                | н           | **           | **         | **       | **       | "         |   |             |
| Trichloroethene                    | ND            | 500                | **          | "            | **         | **       | •        | "         |   |             |
| Trichlorofluoromethane             | ND            | 5000               | 11          | **           | **         | **       |          | H         |   |             |
| <b>1</b> ,2,4-Trimethylbenzene     | 2060000       | 100000             | **          | 20000        | "          | **       | 08/19/04 | н .       |   | <b>G</b> 20 |
| <b>■,3,5-Trimethylbenzene</b>      | 635000        | 100000             | **          | "            | ••         | **       | "        | **        |   | G20         |
| Vinyl chloride                     | ND            | 217                | "           | 1000         | **         | "        | 08/17/04 | **        |   | G14         |
| Total Xylenes                      | 1180000       | 100000             | *           | 20000        | "          | н        | 08/19/04 | 11        |   | G20         |
| Surrogate: Dibromofluoromethane    |               | 87800 %            | 82.1        | '-117        | "          | "        | 08/17/04 | "         | Н |             |
| Surrogate: 1,2-Dichloroethane-d4   |               | 85400 %            | 70.2        | ?-131        | "          | "        | "        | "         | H |             |
| Surrogate: Toluene-d8              |               | 96800 %            | 74.1        | -125         | "          | "        | "        | "         | Н |             |
| Surrogate: 4-Bromofluorobenzene    |               | 80800 %            | 88.5        | 5-103        | "          | "        | "        | "         | Н |             |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

# WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC          | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|---------------|----------------|-----|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T) |        |                    |       |                |                  |               |                |     |              | -     |
| Blank (4080054-BLK1)            | •      |                    |       | Prepared:      | 08/14/04         | Analyzed      | : 08/16/04     |     |              |       |
| Benzene                         | ND     | 0.500              | ug/l  |                |                  | · · · · · · · |                |     |              |       |
| Bromobenzene                    | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| Bromodichloromethane            | ND     | 0.391              | "     |                |                  |               |                |     |              |       |
| n-Butylbenzene                  | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| sec-Butylbenzene                | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| zert-Butylbenzene               | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| Carbon tetrachloride            | ND     | 0.372              | "     |                |                  |               |                |     |              |       |
| Chlorobenzene                   | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| □hloroethane                    | ND     | 5.00               | **    |                |                  |               |                |     |              |       |
| □ hloroform                     | ND     | 0.316              | "     |                |                  |               |                |     |              |       |
| Chloromethane                   | ND     | 0.448              |       |                |                  |               |                |     |              |       |
| 2-Chlorotoluene                 | ND     | 5.00               |       |                |                  |               |                |     |              | •     |
| <b>⊐-</b> Chlorotoluene         | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| Dibromochloromethane            | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| ,2-Dibromo-3-chloropropane      | ND     | 0.264              | 11    |                |                  |               |                |     | •            |       |
| ,2-Dibromoethane                | ND     | 0.251              | "     |                |                  |               |                |     |              |       |
| 1,2-Dichlorobenzene             | ND     | 5.00               | 11    |                |                  |               |                |     |              |       |
| ■,3-Dichlorobenzene             | ND     | 5.00               | n     |                |                  |               |                |     |              |       |
| ,4-Dichlorobenzene              | ND     | 5.00               | Ħ     |                |                  |               |                |     |              |       |
| Dichlorodifluoromethane         | ND     | 5.00               | **    |                |                  |               |                |     |              |       |
| 1,1-Dichloroethane              | ND     | 5.00               | **    |                |                  |               |                |     |              |       |
| 1,2-Dichloroethane              | ND     | 0.500              | **    |                |                  |               |                |     |              |       |
| 1,1-Dichloroethene              | ND     | 0.500              | **    |                |                  |               |                |     |              |       |
| çis-1,2-Dichloroethene          | ND     | 5.00               | **    |                |                  |               |                |     |              |       |
| rans-1,2-Dichloroethene         | ND     | 5.00               | **    |                |                  |               |                |     |              |       |
| 1,2-Dichloropropane             | ND     | 0.500              | "     |                |                  |               |                |     |              |       |
| 1,3-Dichloropropane             | ND     | 5.00               | н     |                |                  |               | ٠              |     |              |       |
| ⊇,2-Dichloropropane             | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| Di-isopropyl ether              | ND     | 5.00               | "     |                |                  |               |                |     |              |       |
| Ethylbenzene                    | ND     | 5.00               | **    |                |                  |               |                |     |              |       |
| Hexachlorobutadiene             | ND     | 10.0               | **    |                |                  |               |                |     |              |       |
|                                 | ND     | 5.00               | ••    |                |                  |               |                |     |              |       |
| p-lsopropyltoluene              | ND     | 5.00               |       |                |                  |               |                |     |              |       |
| Methylene chloride              | ND     | 0.386              |       |                |                  |               |                |     |              |       |

Great Lakes Analytical--Oak Creek

Methyl tert-butyl ether

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Mil

ND

0.290



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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

# WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits   | RPD | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|------------------|-----|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T)  |        |                    |       |                |                  |          |                  | ,   |              |       |
| Blank (4080054-BLK1)             |        |                    |       | Prepared:      | 08/14/04         | Analyzed | l: 08/16/04      |     |              |       |
| Naphthalene                      | ND     | 8.00               | ug/l  |                |                  |          |                  |     |              |       |
| n-Propylbenzene                  | ND     | 5.00               | **    |                |                  |          |                  |     |              |       |
| 1,1,2,2-Tetrachloroethane        | ND     | 0.331              | "     |                |                  |          |                  |     |              |       |
| Tetrachloroethene                | ND     | 0.500              | **    |                |                  |          |                  |     |              |       |
| Toluene                          | ND     | 5.00               | **    |                |                  |          |                  |     |              |       |
| 1,2,3-Trichlorobenzene           | ND     | 10.0               | **    |                |                  |          |                  |     |              |       |
| 1,2,4-Trichlorobenzene           | ND     | 10.0               | n     |                |                  |          |                  |     |              |       |
| 1,1,1-Trichloroethane            | ND     | 5.00               | h     |                |                  |          |                  |     |              |       |
| 1,1,2-Trichloroethane            | ND     | 0.145              | 11    |                |                  |          |                  |     |              |       |
| Trichloroethene                  | ND     | 0.500              | **    |                |                  |          |                  |     |              |       |
| Trichlorofluoromethane           | ND     | 5.00               | 11    |                |                  |          |                  |     |              |       |
| 1,2,4-Trimethylbenzene           | ND     | 5.00               | **    |                |                  |          |                  |     |              |       |
| 1,3,5-Trimethylbenzene           | ND     | 5.00               | **    |                |                  |          |                  |     |              |       |
| Vinyl chloride                   | ND     | 0.217              | *     |                |                  |          |                  |     |              |       |
| Total Xylenes                    | ND     | 5.00               | 11    |                |                  |          |                  |     |              |       |
| Surrogate: Dibromofluoromethane  | 43.5   |                    | "     | 50.0           |                  | 87.0     | 82.1-117         |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 41.9   |                    | "     | 50.0           |                  | 83.8     | 70.2-131         |     |              |       |
| Surrogate: Toluene-d8            | 52.0   |                    | "     | 50.0           |                  | 104      | 74.1-125         |     |              |       |
| Surrogate: 4-Bromofluorobenzene  | 46.1   |                    | "     | 50.0           |                  | 92.2     | 88.5-10 <b>3</b> |     | -            |       |
| LCS (4080054-BS1)                |        |                    |       | Prepared:      | 08/14/04         | Analyzed | l: 08/17/04      |     |              |       |
| Benzene                          | 17.9   | 0.500              | ug/l  | 20.0           |                  | 89.5     | 70-130           |     |              |       |
| Bromobenzene                     | 19.3   | 5.00               | **    | 20.0           |                  | 96.5     | 70-130           |     |              |       |
| Bromodichloromethane             | 20.4   | 0.391              | н     | 20.0           |                  | 102      | 70-130           |     |              |       |
| n-Butylbenzene                   | 16.8   | 5.00               | н     | 20.0           |                  | 84.0     | 70-130           |     |              |       |
| sec-Butylbenzene                 | 18.1   | 5.00               | Ħ     | 20.0           |                  | 90.5     | 70-130           |     |              |       |
| tert-Butylbenzene                | 18.6   | 5.00               | "     | 20.0           |                  | 93.0     | 70-130           |     |              |       |
| Carbon tetrachloride             | 7.65   | 0.372              | ••    | 20.0           |                  | 38.2     | 70-130           |     |              | L     |
| Chlorobenzene                    | 17.5   | 5.00               | **    | 20.0           |                  | 87.5     | 70-130           |     |              |       |
| Chloroethane                     | ND     | 5.00               | Ħ     | 20.0           |                  |          | 70-130           |     |              | L     |
| Chloroform                       | 18.7   | 0.316              | 11    | 20.0           |                  | 93.5     | 70-130           |     |              |       |
| Chloromethane                    | 4.00   | 0.448              | 41    | 20.0           |                  | 20.0     | 70-130           |     |              | L     |
| 2-Chlorotoluene                  | 19.1   | 5.00               | **    | 20.0           |                  | 95.5     | 70-130           |     |              |       |
| 4-Chlorotoluene                  | 18.3   | 5.00               | 11    | 20.0           |                  | 91.5     | 70-130           |     |              |       |
| Dibromochloromethane             | 18.8   | 5.00               | "     | 20.0           |                  | 94.0     | 70-130           |     |              |       |
| 1,2-Dibromo-3-chloropropane      | 20.0   | 0.264              | **    | 20.0           |                  | 100      | 70-130           |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

# WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                        | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result % | 6REC    | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|--------------------------------|--------|--------------------|-------|----------------|--------------------|---------|----------------|-----|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T | )      |                    |       |                |                    |         |                |     |              |       |
| LCS (4080054-BS1)              |        |                    |       | Prepared:      | 08/14/04 Ar        | nalyzed | : 08/17/04     |     |              |       |
| 1,2-Dibromoethane              | 18.4   | 0.251              | ug/1  | 20.0           |                    | 92.0    | 70-130         |     | <u> </u>     |       |
| 1,2-Dichlorobenzene            | 18.2   | 5.00               | "     | 20.0           |                    | 91.0    | 70-130         |     |              |       |
| □,3-Dichlorobenzene            | 17.7   | 5.00               | "     | 20.0           |                    | 88.5    | 70-130         |     |              |       |
| 7,4-Dichlorobenzene            | 17.4   | 5.00               | "     | 20.0           |                    | 87.0    | 70-130         |     |              |       |
| Dichlorodifluoromethane        | 11.7   | 5.00               | "     | 20.0           |                    | 58.5    | 70-130         |     |              | L     |
| □,1-Dichloroethane             | 15.9   | 5.00               | "     | 20.0           |                    | 79.5    | 70-130         |     |              |       |
| ☐,2-Dichloroethane             | 19.5   | 0.500              | "     | 20.0           |                    | 97.5    | 70-130         |     |              |       |
| 1,1-Dichloroethene             | 22.9   | 0.500              | "     | 20.0           |                    | 114     | 70-130         |     |              |       |
| ⊃is-1,2-Dichloroethene         | 18.3   | 5.00               | H     | 20.0           |                    | 91.5    | 70-130         |     |              |       |
| rans-1,2-Dichloroethene        | 15.1   | 5.00               | 11    | 20.0           |                    | 75.5    | 70-130         |     |              |       |
| 1,2-Dichloropropane            | 20.0   | 0.500              | **    | 20.0           |                    | 100     | 70-130         |     |              |       |
| 1,3-Dichloropropane            | 19.2   | 5.00               | "     | 20.0           |                    | 96.0    | 70-130         |     |              |       |
| 2,2-Dichloropropane            | 3.81   | 5.00               | **    | 20.0           |                    | 19.0    | 70-130         |     |              | L     |
| Di-isopropyl ether             | 16.8   | 5.00               | 11    | 20.0           |                    | 84.0    | 70-130         |     |              |       |
| Ethylbenzene                   | 18.3   | 5.00               | "     | 20.0           |                    | 91.5    | 70-130         |     |              |       |
| Hexachlorobutadiene            | 15.2   | 10.0               | "     | 20.0           |                    | 76.0    | 70-130         |     |              |       |
| Sopropylbenzene                | 17.7   | 5.00               | **    | 20.0           |                    | 88.5    | 70-130         |     |              |       |
| p-Isopropyltoluene             | 17.6   | 5.00               | "     | 20.0           |                    | 88.0    | 70-130         |     |              |       |
| Methylene chloride             | 24.0   | 0.386              | 11    | 20.0           |                    | 120     | 70-130         |     |              |       |
| Methyl tert-butyl ether        | 9.18   | 0.290              | 11    | 20.0           |                    | 45.9    | 70-130         |     |              | L     |
| Naphthalene                    | 20.9   | 8.00               | **    | 20.0           |                    | 104     | 70-130         |     |              |       |
| n-Propylbenzene                | 20.7   | 5.00               | ••    | 20.0           |                    | 104     | 70-130         |     |              |       |
| 1,1,2,2-Tetrachloroethane      | 20.9   | 0.331              |       | 20.0           |                    | 104     | 70-130         |     |              |       |
| Tetrachloroethene              | 17.8   | 0.500              | **    | 20.0           |                    | 89.0    | 70-130         |     |              |       |
| Toluene                        | 19.6   | 5.00               | **    | 20.0           |                    | 98.0    | 70-130         |     |              |       |
| 1,2,3-Trichlorobenzene         | 17.1   | 10.0               | 11    | 20.0           |                    | 85.5    | 70-130         |     |              |       |
| 1,2,4-Trichlorobenzene         | 16.6   | 10.0               | m     | 20.0           |                    | 83.0    | 70-130         |     |              |       |
| 1,1,1-Trichloroethane          | 12.2   | 5.00               | **    | 20.0           |                    | 61.0    | 70-130         |     |              | L     |
| 1,1,2-Trichloroethane          | 21.4   | 0.145              | **    | 20.0           |                    | 107     | 70-130         |     |              |       |
| Trichloroethene                | 18.8   | 0.500              | **    | 20.0           |                    | 94.0    | 70-130         |     |              |       |
| Trichlorofluoromethane         | 54.7   | 5.00               | и     | 20.0           |                    | 274     | 70-130         |     |              | Н     |
| ☐,2,4-Trimethylbenzene         | 23.6   | 5.00               | **    | 20.0           |                    | 118     | 70-130         |     |              | ••    |
| 1,3,5-Trimethylbenzene         | 18.8   | 5.00               | **    | 20.0           |                    | 94.0    | 70-130         |     |              |       |
| Vinyl chloride                 | 30.6   | 0.217              | "     | 20.0           |                    | 153     | 70-130         |     |              | Н     |
| ∵otal Xylenes                  | 53.6   | 5.00               |       | 60.0           |                    | 89.3    | 70-130         |     |              | ••    |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

# WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-----|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T)  |        |                    |       |                |                  |          |                |     |              |       |
| LCS (4080054-BS1)                |        |                    |       | Prepared:      | 08/14/04         | Analyzed | 1: 08/17/04    |     |              |       |
| Surrogate: Dibromofluoromethane  | 46.8   |                    | ug/l  | 50.0           |                  | 93.6     | 82.1-117       |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 45.4   |                    | "     | 50.0           |                  | 90.8     | 70.2-131       |     |              |       |
| Surrogate: Toluene-d8            | 46.3   |                    | "     | 50.0           |                  | 92.6     | 74.1-125       |     |              |       |
| Surrogate: 4-Bromofluorobenzene  | 44.4   |                    | "     | 50.0           |                  | 88.8     | 88.5-103       |     |              |       |
| Matrix Spike (4080054-MS1)       | So     | urce: W4080.       | 31-01 | Prepared:      | 08/14/04         | Analyzed | 1: 08/17/04    |     |              |       |
| ∃enzene                          | 14.7   | 0.500              | ug/l  | 20.0           | ND               | 73.5     | 71.3-120       |     |              |       |
| ∃romobenzene                     | 15.4   | 5.00               | **    | 20.0           | ND               | 77.0     | 71.1-118       |     |              |       |
| Bromodichloromethane             | 17.5   | 0.391              | **    | 20.0           | ND               | 87.5     | 70.3-135       |     |              |       |
| ■-Butylbenzene                   | 14.1   | 5.00               | 11    | 20.0           | 'ND              | 70.5     | 55.4-128       |     |              |       |
| ec-Butylbenzene                  | 14.8   | 5.00               | 41    | 20.0           | ND               | 74.0     | 64.2-120       |     |              |       |
| tert-Butylbenzene                | 14.9   | 5.00               | 11    | 20.0           | ND               | 74.5     | 54.9-126       |     |              |       |
| Carbon tetrachloride             | 13.7   | 0.372              | 11    | 20.0           | ND               | 68.5     | 52.7-138       |     |              |       |
| ⊇hlorobenzene                    | 14.5   | 5.00               | "     | 20.0           | ND               | 72.5     | 73.1-111       |     |              | L     |
| Chloroethane                     | 7.49   | 5.00               | Ħ     | 20.0           | ND               | 37.4     | 47.7-133       |     |              | L     |
|                                  | 15.6   | 0.316              | **    | 20.0           | ND               | 78.0     | 69.1-126       |     |              |       |
| ±hloromethane                    | 28.1   | 0.448              | **    | 20.0           | ND               | 140      | 50.7-120       |     |              | Н     |
| 2-Chlorotoluene                  | 14.7   | 5.00               | "     | 20.0           | ND               | 73.5     | 63.4-119       |     |              |       |
| †-Chlorotoluene                  | 14.8   | 5.00               | **    | 20.0           | ND               | 74.0     | 65.9-126       |     |              |       |
| Dibromochloromethane             | 18.1   | 5.00               |       | 20.0           | ND               | 90.5     | 67.4-116       |     |              |       |
| 1,2-Dibromo-3-chloropropane      | 20.5   | 0.264              | **    | 20.0           | ND               | 102      | 56.6-138       |     |              |       |
| 1,2-Dibromoethane                | 19.2   | 0.251              | "     | 20.0           | ND               | 96.0     | 69.2-114       |     |              |       |
| 1,2-Dichlorobenzene              | 15.8   | 5.00               | **    | 20.0           | ND               | 79.0     | 70.7-124       |     |              |       |
| 7,3-Dichlorobenzene              | 14.7   | 5.00               | **    | 20.0           | ND               | 73.5     | 71.1-119       |     |              |       |
| 4-Dichlorobenzene, لـ            | 15.0   | 5.00               | **    | 20.0           | ND               | 75.0     | 69.6-115       |     |              |       |
| Dichlorodifluoromethane          | 3.63   | 5.00               | **    | 20.0           | ND               | 18.2     | 53.1-124       |     |              | L     |
| ,1-Dichloroethane                | 16.3   | 5.00               | **    | 20.0           | ND               | 81.5     | 68.6-131       |     |              |       |
| 1,2-Dichloroethane               | 17.3   | 0.500              | **    | 20.0           | ND               | 86.5     | 63.1-125       |     |              |       |
| ,1-Dichloroethene                | 8.65   | 0.500              | **    | 20.0           | ND               | 43.2     | 59.5-115       |     |              | L     |
| is-1,2-Dichloroethene            | 16.2   | 5.00               | "     | 20.0           | ND               | 81.0     | 66.6-131       |     |              |       |
| trans-1,2-Dichloroethene         | 14.6   | 5.00               | **    | 20.0           | ND               | 73.0     | 57.2-132       |     |              |       |
| ,2-Dichloropropane               | 16.4   | 0.500              | **    | 20.0           | ND               | 82.0     | 76.4-120       |     |              |       |
| ,3-Dichloropropane               | 18.4   | 5.00               | **    | 20.0           | ND               | 92.0     | 72.3-111       |     |              |       |
| 2,2-Dichloropropane              | 13.6   | 5.00               | 11    | 20.0           | ND               | 68.0     | 57.9-117       |     |              |       |
| Di-isopropyl ether               | 31.1   | 5.00               | 11    | 20.0           | ND               | 156      | 59.2-122       |     |              | Н     |
| ∃thylbenzene                     | 14.2   | 5.00               | 11    | 20.0           | ND               | 71.0     | 64.7-130       |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt Reported: 08/20/04 09:52

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T)  |        |                    |       |                |                  |          |                |      |              |       |
| Matrix Spike (4080054-MS1)       | Soi    | urce: W40803       | 31-01 | Prepared:      | 08/14/04         | Analyzed | d: 08/17/04    |      |              |       |
| Hexachlorobutadiene              | 14.3   | 10.0               | ug/l  | 20.0           | ND               | 71.5     | 63.3-127       |      |              | -     |
| Isopropylbenzene                 | 14.1   | 5.00               | н     | 20.0           | ND               | 70.5     | 55.1-132       |      |              |       |
| □-Isopropyltoluene               | 14.4   | 5.00               | **    | 20.0           | ND               | 72.0     | 54.8-128       |      |              |       |
| Methylene chloride               | 7.47   | 0.386              | 11    | 20.0           | ND               | 37.4     | 62.8-130       |      |              | L     |
| Methyl tert-butyl ether          | 35.7   | 0.290              | **    | 20.0           | ND               | 178      | 54.5-125       |      |              | Н     |
| Naphthalene                      | 19.2   | 8.00               | 11    | 20.0           | ND               | 96.0     | 48.5-135       |      |              |       |
| ¬-Propylbenzene                  | 15.7   | 5.00               | **    | 20.0           | ND               | 78.5     | 64.6-125       |      |              |       |
| 1,1,2,2-Tetrachloroethane        | 18.8   | 0.331              | 11    | 20.0           | ND               | 94.0     | 67.8-125       |      |              |       |
| [Fetrachloroethene               | 14.1   | 0.500              | **    | 20.0           | ND               | 70.5     | 66.8-110       |      |              |       |
| Toluene                          | 14.5   | 5.00               | **    | 20.0           | ND               | 72.5     | 72.5-108       |      |              |       |
| 1,2,3-Trichlorobenzene           | 16.8   | 10.0               | **    | 20.0           | ND               | 84.0     | 57.4-135       |      |              |       |
| ■,2,4-Trichlorobenzene           | 15.8   | 10.0               | **    | 20.0           | ND               | 79.0     | 56.9-124       |      |              |       |
| ■,1,1-Trichloroethane            | 14.6   | 5.00               | "     | 20.0           | ND               | 73.0     | 59.8-129       |      |              |       |
| 7,1,2-Trichloroethane            | 19.2   | 0.145              | ••    | 20.0           | ND               | 96.0     | 74.5-115       |      |              |       |
| Trichloroethene                  | 14.5   | 0.500              | 11    | 20.0           | ND               | 72.5     | 68.1-116       |      |              |       |
| Trichlorofluoromethane           | 14.9   | 5.00               | **    | 20.0           | ND               | 74.5     | 57.4-150       |      |              |       |
| <b>1</b> ,2,4-Trimethylbenzene   | 17.6   | 5.00               | **    | 20.0           | ND               | 88.0     | 57-126         |      |              |       |
| 1,3,5-Trimethylbenzene           | 15.6   | 5.00               | 11    | 20.0           | ND               | 78.0     | 56.2-126       |      |              |       |
| ▼inyl chloride                   | 4.14   | 0.217              | 11    | 20.0           | ND               | 20.7     | 59.4-139       |      |              | L     |
| Total Xylenes                    | 43.5   | 5.00               | 11    | 60.0           | ND               | 72.5     | 66.9-119       |      |              |       |
| Surrogate: Dibromofluoromethane  | 48.4   |                    | "     | 50.0           |                  | 96.8     | 82.1-117       |      |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 47.3   |                    | "     | 50.0           |                  | 94.6     | 70.2-131       |      |              |       |
| Surrogate: Toluene-d8            | 47.4   |                    | n     | 50.0           |                  | 94.8     | 74.1-125       |      |              |       |
| Surrogate: 4-Bromofluorobenzene  | 44.6   |                    | "     | 50.0           |                  | 89.2     | 88.5-103       |      |              |       |
| Matrix Spike Dup (4080054-MSD1)  | Sou    | urce: W40803       | 31-01 | Prepared:      | 08/14/04         | Analyzed | 1: 08/17/04    |      |              |       |
| Benzene                          | 17.1   | 0.500              | ug/l  | 20.0           | ND               | 85.5     | 71.3-120       | 15.1 | 23.7         |       |
| Bromobenzene                     | 17.3   | 5.00               | "     | 20.0           | ND               | 86.5     | 71.1-118       | 11.6 | 26.7         |       |
| Bromodichloromethane             | 20.5   | 0.391              | **    | 20.0           | ND               | 102      | 70.3-135       | 15.8 | 26           |       |
| n-Butylbenzene                   | 16.6   | 5.00               | 11    | 20.0           | ND               | 83.0     | 55.4-128       | 16.3 | 38.2         |       |
| sec-Butylbenzene                 | 17.3   | 5.00               | 11    | 20.0           | ND               | 86.5     | 64.2-120       | 15.6 | 35.2         |       |
| zert-Butylbenzene                | 17.7   | 5.00               | 17    | 20.0           | ND               | 88.5     | 54.9-126       | 17.2 | 30.6         |       |
| □arbon tetrachloride             | 16.7   | 0.372              | **    | 20.0           | ND               | 83.5     | 52.7-138       | 19.7 | 29.5         |       |
| Chlorobenzene                    | 16.6   | 5.00               | **    | 20.0           | ND               | 83.0     | 73.1-111       | 13.5 | 23.1         |       |
| Chloroethane                     | 8.24   | 5.00               | "     | 20.0           | ND               | 41.2     | 47.7-133       | 9.54 | 28.6         | L     |
| ≅hloroform                       | 17.9   | 0.316              | **    | 20.0           | ND               | 89.5     | 69.1-126       | 13.7 | 22.7         |       |
|                                  |        |                    |       |                |                  |          |                |      |              |       |

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

# WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T)   | _      |                    |       |                |                  |          |                |       |              |       |
| ■ Matrix Spike Dup (4080054-MSD1) | So     | urce: W40803       | 1-01  | Prepared:      | 08/14/04         | Analyzed | : 08/17/04     |       |              |       |
| Chloromethane                     | 10.4   | 0.448              | ug/l  | 20.0           | ND               | 52.0     | 50.7-120       | 91.9  | 40           | Н     |
| 2-Chlorotoluene                   | 17.1   | 5.00               | Ħ     | 20.0           | ND               | 85.5     | 63.4-119       | 15.1  | 25.6         |       |
| <b>¬-</b> Chlorotoluene           | 16.8   | 5.00               | rr    | 20.0           | ND               | 84.0     | 65.9-126       | 12.7  | 26.3         |       |
| Dibromochloromethane              | 20.0   | 5.00               | н     | 20.0           | ND               | 100      | 67.4-116       | 9.97  | 27.4         |       |
| 1,2-Dibromo-3-chloropropane       | 20.3   | 0.264              | n     | 20.0           | ND               | 102      | 56.6-138       | 0.980 | 38.9         |       |
| ■,2-Dibromoethane                 | 20.5   | 0.251              | IT    | 20.0           | ND               | 102      | 69.2-114       | 6.55  | 20.7         |       |
| ■,2-Dichlorobenzene               | 17.4   | 5.00               | IT    | 20.0           | ND               | 87.0     | 70.7-124       | 9.64  | 25.4         |       |
| 1,3-Dichlorobenzene               | 16.4   | 5.00               | #     | 20.0           | ND               | 82.0     | 71.1-119       | 10.9  | 25.6         |       |
| 4.4-Dichlorobenzene               | 16.6   | 5.00               | н     | 20.0           | ND               | 83.0     | 69.6-115       | 10.1  | 26           |       |
| Dichlorodifluoromethane           | 11.9   | 5.00               | н     | 20.0           | ND               | 59.5     | 53.1-124       | 107   | 25.5         | Н     |
| 1,1-Dichloroethane                | 19.0   | 5.00               | Ħ     | 20.0           | ND               | 95.0     | 68.6-131       | 15.3  | 22.1         |       |
| ■,2-Dichloroethane                | 18.8   | 0.500              | **    | 20.0           | ND               | 94.0     | 63.1-125       | 8.31  | 25.5         |       |
| 1,1-Dichloroethene                | 17.2   | 0.500              | 11    | 20.0           | ND               | 86.0     | 59.5-115       | 66.2  | 23.3         | Н     |
| cis-1,2-Dichloroethene            | 18.4   | 5.00               | **    | 20.0           | ND               | 92.0     | 66.6-131       | 12.7  | 27.4         |       |
| trans-1,2-Dichloroethene          | 16.6   | 5.00               | ••    | 20.0           | ND               | 83.0     | 57.2-132       | 12.8  | 26.4         |       |
| ,2-Dichloropropane                | 18.7   | 0.500              | **    | 20.0           | ND               | 93.5     | 76.4-120       | 13.1  | 23.3         |       |
| 1,3-Dichloropropane               | 20.3   | 5.00               | **    | 20.0           | ND               | 102      | 72.3-111       | 9.82  | 23           |       |
| _2,2-Dichloropropane              | 16.0   | 5.00               | **    | 20.0           | ND               | 80.0     | 57.9-117       | 16.2  | 25.1         |       |
| Di-isopropyl ether                | 34.2   | 5.00               | n     | 20.0           | ND               | 171      | 59.2-122       | 9.49  | 28.6         | Н     |
| Ethylbenzene                      | 16.5   | 5.00               | н     | 20.0           | ND               | 82.5     | 64.7-130       | 15.0  | 25.7         |       |
| Hexachlorobutadiene               | 17.1   | 10.0               | " .   | 20.0           | ND               | 85.5     | 63.3-127       | 17.8  | 40           |       |
| ¶sopropylbenzene                  | 16.4   | 5.00               | **    | 20.0           | ND               | 82.0     | 55.1-132       | 15.1  | 28.5         |       |
| p-Isopropyltoluene                | 17.2   | 5.00               | **    | 20.0           | ND               | 86.0     | 54.8-128       | 17.7  | 35.3         |       |
| Methylene chloride                | 20.0   | 0.386              | **    | 20.0           | ND               | 100      | 62.8-130       | 91.2  | 23.7         | Н     |
| Methyl tert-butyl ether           | 37.4   | 0.290              | "     | 20.0           | ND               | 187      | 54.5-125       | 4.65  | 40           | Н     |
| Naphthalene                       | 20.3   | 8.00               | **    | 20.0           | ND               | 102      | 48.5-135       | 5.57  | 40           |       |
| n-Propylbenzene                   | 18.3   | 5.00               | **    | 20.0           | ND               | 91.5     | 64.6-125       | 15.3  | 34.7         |       |
| ■,1,2,2-Tetrachloroethane         | 19.2   | 0.331              | "     | 20.0           | ND               | 96.0     | 67.8-125       | 2.11  | 22.5         |       |
| <b>■</b> etrachloroethene         | 17.3   | 0.500              | "     | 20.0           | ND               | 86.5     | 66.8-110       | 20.4  | 24.6         |       |
| Toluene                           | 17.4   | 5.00               | "     | 20.0           | ND               | 87.0     | 72.5-108       | 18.2  | 23.1         |       |
| ■,2,3-Trichlorobenzene            | 19.0   | 10.0               | "     | 20.0           | ND               | 95.0     | 57.4-135       | 12.3  | 31.8         |       |
| ■,2,4-Trichlorobenzene            | 17.7   | 10.0               | "     | 20.0           | ND               | 88.5     | 56.9-124       | 11.3  | 31.2         |       |
| 1,1,1-Trichloroethane             | 17.3   | 5.00               | "     | 20.0           | ND               | 86.5     | 59.8-129       | 16.9  | . 21.8       |       |
| ■,1,2-Trichloroethane             | 20.6   | 0.145              | **    | 20.0           | ND               | 103      | 74.5-115       | 7.04  | 23.7         |       |
| ■ Trichloroethene                 | 17.2   | 0.500              | **    | 20.0           | ND               | 86.0     | 68.1-116       | 17.0  | 25.5         |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21058 Project Manager: Mike Rehfeldt Reported: 08/20/04 09:52

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD                                     | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|---|--------------|-------|
| Batch 4080054 - EPA 5030B (P/T)  |        |                    |       |                |                  |          |                |   |              |       |
| Matrix Spike Dup (4080054-MSD1)  | Sou    | ırce: W4080.       | 31-01 | Prepared:      | 08/14/04         | Analyzed | i: 08/17/04    |   |              |       |
| Trichlorofluoromethane           | 44.0   | 5.00               | ug/l  | 20.0           | ND               | 220      | 57.4-150       | 98.8                                    | 29.4         | НН    |
| 1,2,4-Trimethylbenzene           | 18.4   | 5.00               | "     | 20.0           | ND               | 92.0     | 57-126         | 4.44                                    | 28.7         |       |
| ■,3,5-Trimethylbenzene           | 17.7   | 5.00               | **    | 20.0           | ND               | 88.5     | 56.2-126       | 12.6                                    | 31           |       |
| Vinyl chloride                   | 21.7   | 0.217              | н     | 20.0           | ND               | 108      | 59.4-139       | 136                                     | 34.5         | Н     |
| Total Xylenes                    | 50.1   | 5.00               | "     | 60.0           | ND               | 83.5     | 66.9-119       | 14.1                                    | 24.3         |       |
| Surrogate: Dibromofluoromethane  | 47.8   |                    | "     | 50.0           |                  | 95.6     | 82.I-117       | *************************************** |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 48.1   |                    | "     | 50.0           |                  | 96.2     | 70.2-131       |   |              |       |
| Surrogate: Toluene-d8            | 48.7   |                    | "     | 50.0           |                  | 97.4     | 74.1-125       |   |              |       |
| Surrogate: 4-Bromofluorobenzene  | 43.1   |                    | "     | 50.0           |                  | 86.2     | 88.5-103       |   | 1            | L     |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

Project: MPL Realty

205 Wilmont Dr.

Waukesha, WI 53189

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/20/04 09:52

#### Notes and Definitions

- G14 The recovery of this analyte in the check standard is above the method specified acceptance criteria.
- G20 This analyte was initially analyzed within holdtime; however, reanalysis at a dilution was performed outside the method specified holdtime.
- G21 This analyte was initially analyzed within holdtime; however, due to instrument interference, the sample was reanalyzed outside the method specified holdtime to confirm the interference.
- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- \* The laboratory is not NELAP accredited for this analyte.
- \*\* The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307





Great Lakes Analytical--Oak Creek

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# THE RECORD TO MAKE

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 140 E. Ryan Road Oak Creek, WI 53154 (414) 570-9460 FAX (414) 570-9461

| Client: MUNST EMINECLUR                                   | Sel           | Whi         | Les (            | Bill To:         |            | (                | ~  I                                      | C)        | nt                                     |                          |   |               |               |                | TAT:     | STD.        | ) 41   | DAY .                | 3 DAY          | 2 DA               | Y 1 DAY                               | < 24 HRS.   |
|---|---------------|-------------|------------------|------------------|------------|------------------|---|-----------|--|--------------------------|---|---------------|---------------|----------------|----------|-------------|--|----------------------|----------------|--------------------|---------------------------------------|-------------|
| Address: 205 William Bi                                   | 7.            |             |                  | Addres           |            |                  |   |           |  |                          |   |               |               |                | Ž\YI     | ES - TA     | AT is ci   | ritical<br>t critics | ıl             | DA                 | ITE RESULTS NE                        | EEDED:      |
| Report to: MILC Phone #: ( E-mail: penfe at 1 10 Fax #: ( |               |             |                  | Addies           |            |                  |   |           |  |                          |   |               |               |                | Rece     | eived:      | 13 110   | ic                   | e<br>Frigarata | Tel                | ethod:                                | ceipt: 7 P  |
| Report to:  | )             |             |                  | State & Progra   | 2 1.7      | ; [] .           | 70.                                       | <u> </u>  | Pho                                    | one <del>f</del><br>: #: | #: (                                    | )             |               |                | Deliv    | erable      | Pack   | age:                 | Delive         | <u>∏</u><br>∍ry Με | ethod:                                |             |
| E-mail: pelife lat Fax #: (                               |               | <del></del> | <del></del> ,    | Progra           | m: U       |                  |   |           | Fax                                    | #:                       | _(,_                                    | <del>),</del> | <del>,,</del> | <del>,</del> - |          | STD         |  | her                  | GLA X          | Clier              | nt Shipped                            | ☐ Courier ☐ |
| Project Name: 1/1//L 1//2 // PRA                          |               | _/          |                  | /                | ,          |                  |   | Bottl     | Used                                   |                          |   |               |               | / ,            | / /      | / /         | ' /  |                      | SAM<br>CONT    |                    | /                                     |             |
| Project #/PO#: 1-21055                                    |               | 7 4480      | 121,5 July 370,0 | 2/4              | . <i>F</i> | 77               | 7   | 7 /       | 7 7 7                                  |                          |   |               | / /           | / /            |          |             |  | / ,                  | / Ja           | ; /                |                                       |             |
| Sampler: Wellineyek                                       | /.            | 43          |                  |                  | * /z/      | / <sub>Š</sub> / | /s /                                      | /<br>* /> | /4/3                                   |                          | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |               |               |                | / /      | / /         | / /  |                      |                | ,/                 | LABORA'                               | TORY        |
| FIELD ID, LOCATIÓN  | / <           | 28          | / 🛚 🖔            | SAMPLE<br>MATHER |            |                  | \$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |           | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | / <b>3</b> /3            |   | <u> </u>      |               | /_/            |          |             |  | 858<br>858<br>758    |                |                    | ID NUM                                | BER         |
| 1 MW-10 PID:  | 83            | ii          | pm               | 1                |            | X                |   |           | 3                                      |                          | ,                                       | +             |               |                |          |             |  |                      |                | V                  | 14680                                 | 144-01      |
| 2 11/1W-107-<br>PID:                                      |               |             |                  |                  |            | K                |   |           | 3                                      |                          |   | 1             |               |                |          |             |  |                      |                | 1                  |                                       | -62         |
| 3 11111-103   | 1-1           |             |                  |                  | 1-1-       |                  | +-  |           |  |                          |   |               |               |                | $\dashv$ |             | -  |                      |                |                    |                                       |             |
| PID:  |               |             |                  |                  |            | 1                |   |           | 3                                      |                          |   |               |               |                |          |             |  |                      |                |                    |                                       | -03         |
| 4 Mul-7   | - 1           |             |                  |                  |            | V                |   |           | 3                                      |                          | ,                                       |               |               |                |          |             |  |                      |                |                    |                                       | 704         |
| 5 <i>P</i> 2-1  |               |             |                  |                  |            |                  |   |           | 3                                      |                          |   | <u> </u>      |               | _              | _        | <del></del> | <del>                                     </del> | 1                    |                | 1                  |                                       | ,           |
| PID:  | $\perp \perp$ |             |                  | <u> </u>         | ļļ.        | 14               |   |           |  |                          |   |               |               |                | _ _      |             |  |                      |                | _                  |                                       | 705         |
| 6 Mut 9<br>PID:   | +1            |             |                  |                  |            |                  |   |           | 3                                      |                          |   | -             |               |                |          |             |  |                      |                | 1                  |                                       | 716         |
| 7 11/1/9  | 1             | ,           |                  |                  | 1          | V                | 1   |           | 5                                      |                          |   | 1             |               |                |          |             |  |                      |                | $\top$             |                                       |             |
| 8 FIZEE ProducT DID:                                      | <u>"</u>      |             | <u> </u>         | 1                |            | X                |   | -         | 7                                      |                          |   | 1             |               |                |          |             | -  | -                    |                | A                  | <u>/</u>                              | 107         |
| PID:  | -             |             |                  |                  |            |                  |   |           |  |                          |   |               |               |                |          |             |  |                      |                |                    |                                       |             |
| 9   |               |             |                  |                  |            |                  | 1   |           |  |                          |   |               |               |                |          |             |  |                      |                |                    |                                       |             |
| PID:  |               |             |                  |                  |            |                  |   |           |  |                          |   |               | _             |                |          |             |  |                      |                |                    |                                       |             |
| 10  | _             |             | 1 1              |                  |            |                  | /   |           |  |                          |   | 7             |               |                |          |             |  |                      |                |                    |                                       |             |
| PID:<br>REUNOUISHED JULIANUS                              | RECE          | J.          | Lei)             | I                | 8/         | eff.             | 04  | REL       | INQUIE                                 | HED                      | on h                                    |               | 1/8/          | 14/            | 07       | REC         | EIVEI<br>D L                                     |                      |                | . /2               | Jaran                                 | 8/4/4       |
| RELINQUISHED  | RECE          |             |                  | -7               | <i>I</i> , | <u>/ - C</u>     | 1 04                                      | REL       | INQUIS                                 | HED                      | مابريد                                  | -60           | /             |                | زر       | REC         | CEIVE  | D                    | gen            | <u>~</u>  c        | jarun                                 | 1636        |
|   |               |             |                  |                  |            | ,                |   |           |  |                          |   |               |               |                |          |             |  |                      |                |                    | · · · · · · · · · · · · · · · · · · · | <del></del> |
| COMMENTS:   |               |             |                  |                  |            |                  |   |           |  |                          |   |               |               |                |          |             |  |                      |                |                    |                                       |             |
|   |               |             |                  |                  |            |                  |   |           |  |                          |   |               |               |                |          |             |  |                      | PAGE           |                    | (                                     | OF          |



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21050

Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID    | Laboratory ID | Matrix |   | Date Sampled   | Date Received  |
|--------------|---------------|--------|---|----------------|----------------|
| PZ-1/10'-12' | W407306-01    | Soil   | 1 | 07/26/04 09:15 | 07/27/04 14:00 |
| PZ-1/18'-20' | W407306-02    | Soil   |   | 07/26/04 09:35 | 07/27/04 14:00 |
| PZ-1/25'-27' | W407306-03    | Soil   |   | 07/26/04 09:45 | 07/27/04 14:00 |
| PZ-2/43'-45' | W407306-04    | Soil   |   | 07/26/04 15:00 | 07/27/04 14:00 |

#### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050 Project Manager: Mike Rehfeldt Reported: 08/13/04 12:36

#### **Percent Solids**

#### Great Lakes Analytical--Oak Creek

| Analyte                        | Re<br>Result            | eporting<br>Limit | Units     | Dilution   | Batch-  | Prepared | Analyzed | Method   | Notes         |
|--------------------------------|-------------------------|-------------------|-----------|------------|---------|----------|----------|----------|---------------|
| PZ-1/10'-12' (W407306-01) Soil | Sampled: 07/26/04 09:15 | Receive           | ed: 07/27 | 7/04 14:00 |         |          |          |          |               |
| % Solids                       | 83.2                    | 0.200             | %         | 1          | 4070108 | 07/28/04 | 08/02/04 | 5035 7.5 | <del></del>   |
| PZ-1/18'-20' (W407306-02) Soil | Sampled: 07/26/04 09:35 | Receive           | ed: 07/27 | 7/04 14:00 |         |          |          |          |               |
| % Solids                       | 87.3                    | 0.200             | %         | 1          | 4070108 | 07/28/04 | 08/02/04 | 5035 7.5 | <del></del> - |
| PZ-1/25'-27' (W407306-03) Soil | Sampled: 07/26/04 09:45 | Receive           | ed: 07/27 | 7/04 14:00 |         |          |          |          |               |
| % Solids                       | 85.9                    | 0.200             | %         | 1          | 4070108 | 07/28/04 | 08/02/04 | 5035 7.5 |               |
| PZ-2/43'-45' (W407306-04) Soil | Sampled: 07/26/04 15:00 | Receive           | ed: 07/27 | 7/04 14:00 |         |          |          |          |               |
| % Solids                       | 96.4                    | 0.200             | %         | 1          | 4070108 | 07/28/04 | 08/02/04 | 5035 7.5 |               |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050
Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

# WDNR Volatile Organic Compounds by Method 8260B Great Lakes Analytical--Buffalo Grove

| Analyte                                | F<br>Result             | leporting<br>Limit |             | Dilution | Batch   | Prepared | Analyzed | Method    | Notes  |
|--|-------------------------|--------------------|-------------|----------|---------|----------|----------|-----------|--------|
| PZ-1/10'-12' (W407306-01) Soil         | Sampled: 07/26/04 09:15 | Recei              | ved: 07/27/ | 04 14:00 |         |          |          |           |        |
| Benzene                                | ND                      |                    | ug/kg wet   | 50       | 4080161 | 08/09/04 | 08/10/04 | EPA 8260B |        |
| Bromobenzene                           | ND                      | 25.0               | . "         | "        | "       | **       | "        | "         |        |
| Bromodichloromethane                   | , ND                    | 25.0               | **          | 11       | "       | "        | "        | "         |        |
| n-Butylbenzene                         | 7060                    | 25.0               | "           | 11       | "       | "        | n        | n         |        |
| sec-Butylbenzene                       | ND                      | 25.0               | "           | 'n       | 11      | "        | "        | "         |        |
| tert-Butylbenzene                      | 1240                    | 25.0               | "           | **       | 11      | 11       | "        | "         |        |
| -Carbon tetrachloride                  | ND                      | 25.0               | "           | Ħ        | "       | 11       | **       | **        |        |
| Chlorobenzene                          | ND                      | 25.0               | tt          | "        | "       | "        | "        | H         |        |
| <ul><li>Chlorodibromomethane</li></ul> | ND                      | 250                | 11          | "        | 11      | " .      | **       | 11        |        |
| Chloroethane                           | ND                      | 25.0               | "           | **       | **      | **       | "        | 11        |        |
| -Chloroform                            | ND                      | 25.0               | n           | 11       | "       | Ħ        | "        | **        |        |
| Chloromethane                          | ND                      | 25.0               | н           | **       | "       | "        | n        | **        |        |
| 2-Chlorotoluene                        | ND                      | 25.0               | "           | **       | "       | **       | "        | Ħ         |        |
| 4-Chlorotoluene                        | · ND                    | 25.0               | "           | .11      | 71      | **       | 11       | "         |        |
| 1,2-Dibromo-3-chloropropane            | ND                      | 25.0               | **          | Ħ        | "       | Ħ        | **       | "         |        |
| 1,2-Dibromoethane                      | ND                      | 25.0               | Ħ           | "        | "       | n        | ••       | **        |        |
| 1,2-Dichlorobenzene                    | ND                      | 25.0               | n           | "        | "       | ii .     | "        | n         |        |
| 1,3-Dichlorobenzene                    | ND                      | 25.0               | и .         | "        | "       | "        | н        | n         |        |
| 1,4-Dichlorobenzene                    | ND                      | 25.0               | **          | 11       | **      | "        | 11       | 11        |        |
| Dichlorodifluoromethane                | ND                      | 25.0               | tt          | 11       | n       | H        | •        | "         |        |
| ∃,1-Dichloroethane                     | ND                      | 25.0               | Ħ           | 11       | "       | n        | **       | "         |        |
| 7,2-Dichloroethane                     | ND                      | 25.0               | H           | **       | "       | н        | ••       | **        |        |
| 1,1-Dichloroethene                     | ND                      | 25.0               | н           | "        | **      | **       | "        | **        |        |
| ⊐is-1,2-Dichloroethene                 | ND                      | 25.0               | 11          | "        | **      | 11       | **       | **        |        |
| rans-1,2-Dichloroethene                | ND                      | 25.0               | **          | n        | **      | "        | n        | "         |        |
| 1,2-Dichloropropane                    | ND                      | 25.0               |             | Ħ        | n       | "        | **       | **        |        |
| 1,3-Dichloropropane                    | ND                      | 25.0               | 11          | "        | 11      | **       | **       | Ħ         |        |
| ⊉,2-Dichloropropane                    | ND                      | 25.0               | **          | "        | 11      | н        | **       | "         | •      |
| Di-isopropyl ether                     | ND                      | 25.0               | "           | **       | **      | 11       | n        | n         |        |
| Ethylbenzene                           | 358                     | 25.0               |             | "        | tt      | "        | н        | "         |        |
| Hexachlorobutadiene                    | ND ·                    | 25.0               | "           | "        | n       | **       | **       | 11        |        |
| <b>I</b> sopropylbenzene               | 2870                    | 25.0               | 11          | "        | **      | "        | "        | **        |        |
| p-Isopropyltoluene                     | 7840                    | 25.0               |             | 11       | **      | 11       | н        |           |        |
| Methylene chloride                     | 760                     | 100                | **          | **       | **      | "        | tt .     | н         | A, B   |
| Methyl tert-butyl ether                | ND                      | 25.0               | **          | 11       | n       |          | **       | **        | 11, 12 |
| Naphthalene                            | 10700                   | 25.0               | n           | "        | 11      |          | "        | "         |        |
| n-Propylbenzene                        | 7290                    | 25.0               | 11          | **       | **      | "        | u        | н         |        |
| ■,1,2,2-Tetrachloroethane              | ND                      | 25.0               |             | "        | **      | н        |          | 11        |        |
| Tetrachloroethene                      | ND<br>ND                | 25.0               |             | **       | tr      | 11       | n        | **        |        |
| Toluene                                | ND<br>ND                | 25.0               |             | "        | 11      |          | 11       | **        |        |
| 1,2,3-Trichlorobenzene                 | ND<br>ND                | 25.0               |             |          | **      | er e     | "        | 11        |        |
| ,2,4-Trichlorobenzene                  |                         |                    |             | "        |         | #        |          |           |        |
| ,4,4-1 richiorobenzene                 | ND                      | 25.0               |             | "        | "       | ••       |          |           |        |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050
Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B Great Lakes Analytical--Buffalo Grove

| Analyte   | Result                                   | Limit  |                                       | Dilution                                | Batch                                   | Prepared                               | Analyzed   | Method                                | Note |
|---|--|--|---------------------------------------|---|---|--|--|---------------------------------------|------|
| PZ-1/10'-12' (W407306-01) Soil  | Sampled: 07/26/04 09:15                  | Recei  | ved: 07/27/                           | 04 14:00                                |   |  | •  |                                       |      |
| 1,1,1-Trichloroethane   | ND                                       | 25.0   | ug/kg wet                             | 50                                      | 4080161                                 | 08/09/04                               | 08/10/04   | EPA 8260B                             |      |
| 1,1,2-Trichloroethane   | ND                                       | 25.0   |                                       | "                                       | 11                                      | 11                                     | "  | *                                     |      |
| Trichloroethene   | ND                                       | 25.0   | **                                    | 11                                      | "                                       | **                                     |  | •                                     |      |
| Trichlorofluoromethane  | ND                                       | 25.0   | "                                     | **                                      | "                                       | H                                      | "  | "                                     |      |
| 1,2,4-Trimethylbenzene  | 67000                                    | 250  | n                                     | 500                                     | Ħ                                       | H                                      | 08/12/04   | IT .                                  |      |
| 1,3,5-Trimethylbenzene  | 4250                                     | 25.0   | н                                     | 50                                      | **                                      | 11                                     | 08/10/04   | n                                     |      |
| Vinyl chloride  | ND                                       | 25.0   | 11                                    | 11                                      | "                                       | "                                      | 11   | ."                                    |      |
| Total Xylenes   | 6540                                     | 25.0   | **                                    | 11                                      | H .                                     | 11                                     | 11   |                                       |      |
| Surrogate: 1,2-Dichloroethane-d4  |  | 109 %  | 32-1                                  | 79                                      | "                                       | "                                      | · "  | "                                     |      |
| Surrogate: Dibromofluoromethane   | i<br>·                                   | 104 %  | 23.1-                                 | 173                                     | "                                       | "                                      | "  | "                                     |      |
| Surrogate: 4-Bromofluorobenzene   |  | 132 %  | 29.2-                                 | 152                                     | "                                       | "                                      | "  | "                                     |      |
| Surrogate: Toluene-d8   |  | 120 %  | 32.1-                                 | 175                                     | "                                       | "                                      | Λ  | n                                     |      |
| PZ-1/18'-20' (W407306-02) Soil  | Sampled: 07/26/04 09:35                  | Recei  | ved: 07/27/0                          | 04 14:00                                |   | _                                      |  |                                       |      |
| Benzene   | ND                                       | 25.0   | ug/kg wet                             | 50                                      | 4080161                                 | 08/09/04                               | 08/11/04   | EPA 8260B                             |      |
| Bromobenzene  | ND                                       | 25.0   | **                                    | **                                      | 11                                      | H                                      | "  | n                                     |      |
| Bromodichloromethane  | ND                                       | 25.0   |                                       | **                                      | 11                                      | 11                                     | "  | 11                                    |      |
| n-Butylbenzene  | ND                                       | 25.0   | n                                     | Ħ                                       | **                                      | 11                                     | 11   | 11                                    |      |
| sec-Butylbenzene  | ND                                       | 25.0   | 11                                    | **                                      | "                                       | "                                      | n  | 11                                    |      |
| ert-Butylbenzene  | ND                                       | 25.0   | **                                    | 11                                      | tt                                      | 17                                     | It   | **                                    |      |
| Carbon tetrachloride  | ND                                       | 25.0   | n                                     | 17                                      | n                                       | n                                      | 10   | Ħ                                     |      |
| Chlorobenzene   | ND                                       | 25.0   | H                                     | "                                       | n                                       | n                                      | 11   | tr                                    |      |
| Chlorodibromomethane  | ND                                       | 250  | n .                                   | "                                       | 11                                      | n                                      | •  | #                                     |      |
| Chloroethane  | ND                                       | 25.0   | 11                                    | Ħ                                       | **                                      | **                                     | "  | n                                     |      |
| Chloroform  | ND                                       | 25.0   | **                                    | и.,                                     | **                                      | **                                     | n  | "                                     |      |
| Chloromethane   | MD                                       |  |                                       |   |   |  |  |                                       |      |
|   | ND                                       | 25.0   | 11                                    | **                                      | Ħ                                       | rr ·                                   | 11   | **                                    |      |
| 2-Chlorotoluene   | ND<br>ND                                 | 25.0<br>25.0   | 11                                    | **                                      | H                                       | n<br>n                                 | "  | tt<br>H                               |      |
| 2-Chlorotoluene<br>4-Chlorotoluene  |  |  |                                       |   |   |  |  | 11<br>11                              |      |
| *`  | ND                                       | 25.0   | "                                     | **                                      | н                                       | **                                     | "  | 11<br>11<br>11                        |      |
| 4-Chlorotoluene   | ND<br>ND                                 | 25.0<br>25.0   | n<br>n                                | 11                                      | 11                                      | "                                      | 99<br>89   | 11 11 11 11 11                        |      |
| 4-Chlorotoluene<br>1,2-Dibromo-3-chloropropane  | ND<br>ND<br>ND                           | 25.0<br>25.0<br>25.0   | 11<br>11                              | " "                                     | 11<br>11                                | 11<br>11                               | 17<br>17   | 11 11 11 11 11 11                     |      |
| 4-Chlorotoluene<br>1,2-Dibromo-3-chloropropane<br>1,2-Dibromoethane   | ND<br>ND<br>ND<br>ND                     | 25.0<br>25.0<br>25.0<br>25.0                                 | n<br>n<br>n                           | 11                                      | 11<br>11                                | 11<br>11<br>11                         | " "  | 11 11 11 11 11 11 11                  |      |
| 4-Chlorotoluene<br>1,2-Dibromo-3-chloropropane<br>1,2-Dibromoethane<br>1,2-Dichlorobenzene  | ND<br>ND<br>ND<br>ND<br>ND               | 25.0<br>25.0<br>25.0<br>25.0<br>25.0                         | # # # # # # # # # # # # # # # # # # # | 11                                      | 11<br>11<br>11                          | 11<br>11<br>11                         | "  | 11 11 11 11 11 11 11                  |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene   | ND<br>ND<br>ND<br>ND<br>ND<br>ND         | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0                 | n<br>n<br>n                           | " | " | 11<br>11<br>11<br>11                   | 11<br>11<br>11   | 11 11 11 11 11 11 11 11               |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene   | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND   | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n<br>n<br>n<br>n                      | " | n<br>n<br>n                             | 11<br>11<br>11<br>11                   | 11<br>11<br>11<br>11   | " " " " " " " " " " " " " "           |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane   | ND         | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n<br>n<br>n<br>n                      | " | n<br>n<br>n                             | 11<br>11<br>11<br>11                   | 11<br>11<br>11<br>11   | " " " " " " " " " " " " " " " " " "   |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane  | ND      | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n<br>n<br>n<br>n                      | " | " " " " " " " " " " " " " " " " " " "   | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11   | " " " " " " " " " " " " " " " " " " " |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene  | ND N | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n n n n n n n n n n n n n n n n n n n | " " " " " " " " " " "                   | 11 11 11 11 11 11 11 11 11 11 11 11 11  | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11   | " " " " " " " " " " " " " " " " " " " |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethene is-1,2-Dichloroethene   | ND N | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n n n n n n n n n n n n n n n n n n n | "" "" "" "" "" "" "" "" "" "" "" "" ""  | 11 11 11 11 11 11 11 11 11 11 11 11 11  | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11   |                                       |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene is-1,2-Dichloroethene trans-1,2-Dichloroethene | ND N | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n n n n n n n n n n n n n n n n n n n | " " " " " " " " " " " "                 | 0<br>0<br>0<br>0<br>0<br>0<br>0         | " " " " " " " " " " " " " " "          | 17<br>17<br>17<br>18<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 |                                       |      |
| 4-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethene is-1,2-Dichloroethene   | ND N | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | n n n n n n n n n n n n n n n n n n n | # # # # # # # # # # # # # # # # # # #   |   | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 17<br>17<br>17<br>18<br>18<br>19<br>19<br>19<br>19<br>19   |                                       |      |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050
Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

# WDNR Volatile Organic Compounds by Method 8260B Great Lakes Analytical--Buffalo Grove

| Analyte                          | Result                  | eporting<br>Limit | Units      | Dilution  | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------|-------------------------|-------------------|------------|-----------|---------|----------|----------|-----------|-------|
| PZ-1/18'-20' (W407306-02) Soil   | Sampled: 07/26/04 09:35 | Receiv            | ed: 07/27/ | 04 14:00  |         |          |          |           |       |
| Di-isopropyl ether               | ND                      | 25.0              | ug/kg wet  | 50        | 4080161 | 08/09/04 | 08/11/04 | EPA 8260B |       |
| Ethylbenzene                     | ND                      | 25.0              |            | . 11      | **      | 11       | ••       | "         |       |
| Hexachlorobutadiene              | ND                      | 25.0              | **         | **        |         | "        | **       | **        |       |
| Isopropylbenzene                 | ND                      | 25.0              | **         | "         | **      | "        | 11       | **        |       |
| p-Isopropyltoluene               | ND                      | 25.0              | **         | <b>in</b> | 11      | "        | **       | "         |       |
| Methylene chloride               | ND                      | 100               | 11         | **        | 11      | **       | **       | "         |       |
| Methyl tert-butyl ether          | ND                      | 25.0              | "          | n         | "       | **       | "        | **        |       |
| Naphthalene                      | ND                      | 25.0              | **         | **        | n       | "        | 11       | 11        |       |
| n-Propylbenzene                  | ND                      | 25.0              | **         | 11        | · u     | . "      | **       | 15        |       |
| 1,1,2,2-Tetrachloroethane        | ND                      | 25.0              | 11         | "         | n       | H        | **       | "         |       |
| Tetrachloroethene                | 56.0                    | 25.0              | 11         | 11        | **      | n        | "        |           |       |
| Toluene                          | ND                      | 25.0              | **         | n         | "       | ır       | ••       | **        |       |
| 1,2,3-Trichlorobenzene           | ND                      | 25.0              | "          | "         | "       | **       | "        | **        |       |
| 1,2,4-Trichlorobenzene           | ND                      | 25.0              | "          | "         | н       | **       | "        | rr .      |       |
| 1,1,1-Trichloroethane            | 499                     | 25.0              | **         | "         | 11      | **       | **       | **        |       |
| 1,1,2-Trichloroethane            | ND                      | 25.0              | 11         | "         | н       | 11       | n        | **        |       |
| Trichloroethene                  | 2600                    | 25.0              | **         |           | **      | "        | 11       | **        |       |
| Trichlorofluoromethane           | ND                      | 25.0              | 11 '       | **        | **      | H.       | 11       | •         |       |
| 1,2,4-Trimethylbenzene           | 27.0                    | 25.0              | 11         |           | **      | **       | 11       | "         |       |
| 1,3,5-Trimethylbenzene           | ND                      | 25.0              | **         | "         | "       | 11       | ••       | "         |       |
| Vinyl chloride                   | ND                      | 25.0              | 11         | **        | "       | 11       | ,        |           |       |
| Total Xylenes                    | ND                      | 25.0              | "          | п         | н       | n        | "        | **        |       |
| Surrogate: 1,2-Dichloroethane-d4 |                         | 96.0 %            | 32-1       | 79        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |                         | 93.6 %            | 23.1-      |           | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |                         | 104 %             | 29.2-      |           | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |                         | 109 %             | 32.1-      |           | "       | "        | "        | "         |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21050 Project Manager: Mike Rehfeldt Reported: 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B Great Lakes Analytical--Buffalo Grove

| Analyte                          | Result           | porting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed         | Method    | Notes  |
|----------------------------------|------------------|------------------|-------|----------|---------|----------|------------------|-----------|--------|
|                                  |                  | -                |       |          |         | Treputed | - I IIIII J E CU |           | 110103 |
| PZ-1/25'-27' (W407306-03) Soil   |                  |                  |       | 04 14:00 |         |          |                  |           | ·      |
| Benzene                          | ND               | 25.0             |       | 50       | 4080161 | 08/09/04 | 08/11/04         | EPA 8260B |        |
| Bromobenzene                     | ND               | 25.0             | 'n    | **       | н       | n        | **               | н         |        |
| Bromodichloromethane             | ND               | 25.0             | "     | "        | **      | H        | 11               | "         |        |
| n-Butylbenzene                   | ND               | 25.0             | "     |          | "       | 11       | **               | "         |        |
| sec-Butylbenzene                 | ND               | 25.0             | **    | 11       | "       | 11       | "                | **        |        |
| tert-Butylbenzene                | ND               | 25.0             | **    | 11       | "       | "        | "                | и         |        |
| Carbon tetrachloride             | ND               | 25.0             | "     | **       | **      | "        | H                | "         |        |
| Chlorobenzene                    | ND               | 25.0             | "     | **       | **      | "        | 11               | "         |        |
| Chlorodibromomethane             | ND               | 250              | "     | **       | **      | 11       | "                | "         |        |
| Chloroethane                     | ND               | 25.0             | "     | **       | "       | "        | **               | "         |        |
| Chloroform                       | ND               | 25.0             | 11    | 11       | "       | 11       | * 11             | II        |        |
| Chloromethane                    | ND               | 25.0             | 11    | **       | 11      | n        | **               | 11        |        |
| _2-Chlorotoluene                 | ND               | 25.0             | "     | **       | 11      | "        | "                | "         |        |
| -4-Chlorotoluene                 | ND               | 25.0             | н     | н        | "       | ".       | **               | "         |        |
| 1,2-Dibromo-3-chloropropane      | ND               | 25.0             | tt    | 11       | **      | 11       | "                | **        |        |
| 1,2-Dibromoethane                | ND               | 25.0             | U     | **       | "       | 11       | "                | n         |        |
| 1,2-Dichlorobenzene              | ND               | 25.0             | 11    | 11       | "       | 11       | **               | n         |        |
| 1,3-Dichlorobenzene              | ND               | 25.0             | 11    | 11       | H       | "        | 11               | 11        |        |
| 1,4-Dichlorobenzene              | ND               | 25.0             | "     | 11       | **      | **       | 11               | "         |        |
| Dichlorodifluoromethane          | ND               | 25.0             | "     | **       | n       | •        | н                | "         |        |
| 1,1-Dichloroethane               | 73.1             | 25.0             | **    | n        | **      | **       | ••               | "         |        |
| 1,2-Dichloroethane               | ND               | 25.0             | **    | **       | "       | n        | ••               | n         |        |
| 1,1-Dichloroethene               | ND               | 25.0             | **    | 11       | "       | н        | ••               | H         |        |
| cis-1,2-Dichloroethene           | 137              | 25.0             | #     | 11       | "       | n        | ••               | n         |        |
| <b>■</b> rans-1,2-Dichloroethene | ND               | 25.0             | n     | 11       | "       | 11       | **               | n         |        |
| 1,2-Dichloropropane              | ND               | 25.0             | 17    | **       | H       | 11       | "                | n         |        |
| 1,3-Dichloropropane              | ND               | 25.0             | "     | **       | 11      | **       | **               | Ħ         |        |
| 2,2-Dichloropropane              | ND               | 25.0             | 11    |          | "       | **       | **               | 11        |        |
| Di-isopropyl ether               | ND               | 25.0             | **    | н        | "       | "        | "                | 11        |        |
| Ethylbenzene                     | 62.5             | 25.0             | W.    | .,       | ,,      | II       |                  | н         |        |
| Hexachlorobutadiene              | ND               | 25.0             | ıı    | 11       | "       | 11       | **               | н         |        |
| Jsopropylbenzene                 | ND               | 25.0             | 11    | **       | 11      | **       | **               | 11        |        |
| p-Isopropyltoluene               | ND               | 25.0             | **    | **       | 11      | **       | **               | "         |        |
| Methylene chloride               | ND               | 100              | **    | **       | **      | **       | **               | n         |        |
| ■Methyl tert-butyl ether         | ND               | 25.0             | 11    | tr       | **      | n        | **               | "         |        |
| Naphthalene                      | 104              | 25.0             | R     | н        | ,,      | "        | **               | 11        |        |
| n-Propylbenzene                  | 116              | 25.0             | *     | **       | "       | н        |                  | н         |        |
| ☐,1,2,2-Tetrachloroethane        | ND               | 25.0             | Ħ     |          | "       | Ħ        | "                | н         |        |
| Tetrachloroethene                |                  | 25.0             | 11    | ,,       | **      | "        | "                | 11        |        |
| Toluene                          | <b>251</b><br>ND | 25.0             | "     | #        | "       | "        | **               | 11        |        |
| 1,2,3-Trichlorobenzene           |                  |                  | **    | 11       |         | <br>n    | "                |           |        |
|                                  | ND<br>ND         | 25.0             | **    |          |         | ,,       | **               | "         |        |
| 1,2,4-Trichlorobenzene           | ND               | 25.0             | п     | "        | "       | "        |                  | ••        |        |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21050

Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B Great Lakes Analytical--Buffalo Grove

| Analyte   | Result                                       | eporting<br>Limit  | Units                                  | Dilution                               | Batch                                  | Prepared                               | Analyzed                                | Method                                 | Notes |
|---|--|--|--|--|--|--|---|--|-------|
| PZ-1/25'-27' (W407306-03) Soil  | Sampled: 07/26/04 09:45                      | Recei  | ved: 07/27/                            | 04 14:00                               |  |  |   |  |       |
| 1,1,1-Trichloroethane   | 636  | 25.0   | ug/kg wet                              | 50                                     | 4080161                                | 08/09/04                               | 08/11/04                                | EPA 8260B                              |       |
| 1,1,2-Trichloroethane   | ND   | 25.0   |  |  | 11                                     | **                                     | **                                      | II .                                   |       |
| Trichloroethene   | 3490   | 25.0   | **                                     | Ħ                                      | "                                      | **                                     | 11                                      | **                                     |       |
| Trichlorofluoromethane  | ND   | 25.0   | n                                      | "                                      | **                                     | "                                      | **                                      | "                                      |       |
| 1,2,4-Trimethylbenzene  | 748  | 25.0   | "                                      | it                                     | "                                      | "                                      | **                                      | "                                      |       |
| 1,3,5-Trimethylbenzene  | 169  | 25.0   | **                                     | **                                     | "                                      | u                                      | Ħ                                       | "                                      |       |
| Vinyl chloride  | ND   | 25.0   | Ħ                                      | **                                     | "                                      | . "                                    | Ħ                                       |  |       |
| Total Xylenes   | 210  | 25.0   | 11                                     | 11                                     | **                                     | t1                                     | 11                                      | "                                      |       |
| Surrogate: 1,2-Dichloroethane-d4  |  | 93.2 %   | 32-1                                   | 79                                     | "                                      | n                                      | "                                       | "                                      |       |
| _Surrogate: Dibromofluoromethane  |  | 88.8 %   | 23.1-                                  | 173                                    | "                                      | "                                      | "                                       | "                                      |       |
| Surrogate: 4-Bromofluorobenzene   |  | 99.6 %   | 29.2-                                  | 152                                    | "                                      | n                                      | "                                       | "                                      |       |
| _Surrogate: Toluene-d8  |  | 98.8 %   | 32.1-                                  | 175                                    | "                                      | n                                      | "                                       | "                                      |       |
| PZ-2/43'-45' (W407306-04) Soil  | Sampled: 07/26/04 15:00                      | Recei  | ved: 07/27/                            | 04 14:00                               |  |  |   |  |       |
| Benzene   | ND   | 25.0   | ug/kg wet                              | 50                                     | 4080161                                | 08/09/04                               | 08/10/04                                | EPA 8260B                              |       |
| Bromobenzene  | ND   | 25.0   | "                                      | "                                      | "                                      |  | "                                       | n                                      |       |
| Bromodichloromethane  | ND   | 25.0   | н .                                    | "                                      | "                                      | "                                      | "                                       | 11                                     |       |
| n-Butylbenzene  | ND   | 25.0   | *                                      | **                                     | "                                      | "                                      | **                                      | H                                      |       |
| sec-Butylbenzene  | 39.5   | 25.0   | **                                     | **                                     | **                                     | "                                      | "                                       | u                                      |       |
| ert-Butylbenzene  | ND   | 25.0   | **                                     | "                                      | 11                                     | **                                     | "                                       | n                                      |       |
| Carbon tetrachloride  | ND   | 25.0   | "                                      | "                                      | **                                     | "                                      | "                                       | rt .                                   |       |
| Chlorobenzene   | ND   | 25.0   | "                                      | **                                     | **                                     | **                                     | "                                       | н                                      |       |
| ■Chlorodibromomethane   | ND   | 250  | "                                      | **                                     | t)                                     | "                                      | "                                       | tt.                                    |       |
| <b>■</b> Chloroethane   | ND   | 25.0   | H                                      | "                                      | 11                                     | 11                                     | n                                       | **                                     |       |
| Chloroform  | ND   | 25.0   | "                                      | "                                      | #                                      | "                                      | "                                       | "                                      |       |
| -Chloromethane  | ND   | 25.0   | "                                      |  | **                                     | "                                      | **                                      | "                                      |       |
| 2-Chlorotoluene   | ND   |  |  |  |  | "                                      | **                                      | **                                     |       |
|   | ND   | 25.0   | **                                     | "                                      | **                                     | "                                      |   |  |       |
| -4-Chlorotoluene  | ND<br>ND                                     | 25.0<br>25.0   | "                                      | "                                      | 11                                     | ,,                                     |   |  |       |
| -4-Chlorotoluene 1,2-Dibromo-3-chloropropane  |  |  |  |  |  |  |   |  |       |
|   | ND   | 25.0   |  | "                                      | 11                                     | **                                     | "                                       |  |       |
| 1,2-Dibromo-3-chloropropane   | ND<br>ND                                     | 25.0<br>25.0   | 11                                     | 11                                     | 11                                     | #<br>#                                 | "                                       | n<br>n                                 |       |
| 1,2-Dibromo-3-chloropropane<br>1,2-Dibromoethane<br>1,2-Dichlorobenzene   | ND<br>ND<br>ND                               | 25.0<br>25.0<br>25.0   | #<br>#                                 | 11<br>11                               | 11<br>11                               | #<br>#                                 | " "                                     | 11<br>11                               |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane   | ND<br>ND<br>ND<br>ND                         | 25.0<br>25.0<br>25.0<br>25.0                                 | n<br>n                                 | 11<br>11                               | 11<br>11<br>11                         | " " "                                  | " " " "                                 | п<br>п<br>п                            |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene   | ND<br>ND<br>ND<br>ND<br>ND                   | 25.0<br>25.0<br>25.0<br>25.0<br>25.0                         | u<br>u<br>u                            | 11<br>11<br>11                         | 11 11 11 11                            | 11 11 11 11                            | " | n<br>n<br>n                            |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene   | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND       | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0         | 0<br>0<br>0<br>11                      | 11<br>11<br>11<br>11                   | 11 11 11 11 11 11                      | 11<br>11<br>11<br>11                   | " | n<br>n<br>n<br>n                       |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane   | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11                      | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11                         | " | 11 11 11 11 11 11 11 11 11 11 11 11 11 |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 7,1-Dichloroethane  | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | n n n n n n n n n n n n n n n n n n n  | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11                | " | 11 11 11 11 11 11 11 11                |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene  | ND          | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | n n n n n n n n n n n n n n n n n n n  | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11          |   | 11 11 11 11 11 11 11 11 11             |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethene  is-1,2-Dichloroethene  | ND N     | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11          |   | 11 11 11 11 11 11 11 11 11 11 11 11 11 |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene is-1,2-Dichloroethene trans-1,2-Dichloroethene | ND N     | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 |   | 11 11 11 11 11 11 11 11 11 11 11 11 11 |       |
| 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethene  is-1,2-Dichloroethene  | ND N     | 25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0<br>25.0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | " " " " " " " " " " " " " " "          |   | 11 11 11 11 11 11 11 11 11 11 11 11 11 |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21050

Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

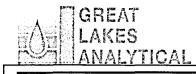
## WDNR Volatile Organic Compounds by Method 8260B

## Great Lakes Analytical--Buffalo Grove

| Analyte                          | Result                                  | eporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes                                   |
|----------------------------------|---|-------------------|------------|----------|---------|----------|----------|-----------|---|
| PZ-2/43'-45' (W407306-04) Soil   | Sampled: 07/26/04 15:00                 | Receiv            | ed: 07/27/ | 04 14:00 |         |          |          |           |   |
| Di-isopropyl ether               | ND                                      | 25.0              | ug/kg wet  | 50       | 4080161 | 08/09/04 | 08/10/04 | EPA 8260B |   |
| Ethylbenzene                     | ND                                      | 25.0              | . 11       | н        | "       | **       | "        | tt        |   |
| Hexachlorobutadiene              | ND                                      | 25.0              | **         | 11       | "       | #        | Ħ        | 11        |   |
| Isopropylbenzene                 | ND                                      | 25.0              | 11         | 11       | "       | "        | "        | 11        |   |
| p-Isopropyltoluene               | ND                                      | 25.0              | 19         | 11       | "       | . "      | Ħ        | 11        |   |
| Methylene chloride               | 694                                     | 100               | **         | 11       | "       | **       | "        | "         | A, E                                    |
| Methyl tert-butyl ether          | ND                                      | 25.0              | "          | "        | **      | **       | Ħ        | **        |   |
| Naphthalene                      | 60.5                                    | 25.0              | "          | 11       | "       | "        | H        | "         |   |
| n-Propylbenzene                  | ND                                      | 25.0              | "          | •        | n       | "        | u        | "         |   |
| 1,1,2,2-Tetrachloroethane        | ND                                      | 25.0              | "          | ••       | H       | tt       | Ħ        | **        |   |
| Tetrachloroethene                | ND                                      | 25.0              | "          |          | н       | n        | ii       | "         |   |
| Toluene                          | ND                                      | 25.0              | "          | "        | #       | n        | 11       | "         |   |
| 1,2,3-Trichlorobenzene           | ND                                      | 25.0              | "          | . "      | **      | ***      | "        | **        |   |
| 1,2,4-Trichlorobenzene           | ND                                      | 25.0              | "          | **       | Ħ       | 11       | 11       | **        |   |
| 1,1,1-Trichloroethane            | ND                                      | 25.0              | **         | **       | н       | 11       | 11       | **        |   |
| 1,1,2-Trichloroethane            | ND                                      | 25.0              | **         | "        | н       | Ħ        | 11       | 11        |   |
| Trichloroethene                  | ND                                      | 25.0              | "          | "        | n       | 11       | 11       | 11        |   |
| Trichlorofluoromethane           | ND                                      | 25.0              | н ,        | "        | н       | 11       | 11       | 11        |   |
| 1,2,4-Trimethylbenzene           | 57.5                                    | 25.0              | **         | n        | n       | Ħ        | 11       | 11        |   |
| 1,3,5-Trimethylbenzene           | ND                                      | 25.0              | **         | **       | H       | Ħ        | Ħ        | **        |   |
| Vinyl chloride                   | ND                                      | 25.0              | **         | **       | н       | н        | Ħ        | H .       |   |
| Total Xylenes                    | ND                                      | 25.0              | "          | **       | Ħ       | **       | Ħ        | н         |   |
| Surrogate: 1,2-Dichloroethane-d4 | / | 89.6 %            | 32-1       | 79       | "       | "        | "        | "         | *************************************** |
| Surrogate: Dibromofluoromethane  |   | 94.0 %            | 23.1-      |          | "       | "        | "        | "         |   |
| Surrogate: 4-Bromofluorobenzene  |   | 109 %             | 29.2-      |          | "       | "        | "        | "         |   |
| Surrogate: Toluene-d8            |   | 120 %             | 32.1-      |          | "       | "        | . "      | "         |   |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: MPL Realty

Project Number: 7-21050

Project Manager: Mike Rehfeldt

Reported:

08/13/04 12:36

# Percent Solids - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                        | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|--------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-----|--------------|-------|
| Batch 4070108 - Percent Solids |        |                    |       |                |                  |          |                |     |              |       |
| Blank (4070108-BLK1)           |        |                    |       | Prepared:      | 07/28/04         | Analyzed | : 08/02/04     |     |              |       |
| % Solids                       | ND     | 0.200              | %     |                |                  |          |                |     |              |       |
| Duplicate (4070108-DUP1)       | Son    | Source: W407292-01 |       |                | 07/28/04         | Analyzed | : 08/02/04     |     |              |       |
| % Solids                       | 97.2   | 0.200              | %     |                | 0.00             |          |                |     | 20           |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050 Project Manager: Mike Rehfeldt **Reported:** 08/13/04 12:36

# WDNR Volatile Organic Compounds by Method 8260B - Quality Control Great Lakes Analytical--Buffalo Grove

| Analyte                         | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-----------|----------------|------------------|----------|----------------|-----|--------------|-------|
| Batch 4080161 - EPA 5035B [P/T] |        |                    |           |                |                  | ,        |                |     |              |       |
| Blank (4080161-BLK1)            |        |                    |           | Prepared:      | 08/09/04         | Analyzed | : 08/10/04     |     |              |       |
| Benzene                         | ND     | 25.0               | ug/kg wet |                |                  |          |                |     |              |       |
| Bromobenzene                    | ND     | 25.0               | Ħ         |                |                  |          |                |     |              |       |
| _Bromodichloromethane           | ND     | 25.0               | 11        |                |                  |          |                |     |              |       |
| ■n-Butylbenzene                 | ND     | 25.0               | "         |                |                  |          |                |     |              |       |
| sec-Butylbenzene                | ND     | 25.0               | Ħ         |                |                  |          |                |     |              |       |
| ≢ert-Butylbenzene               | ND     | 25.0               | Ħ         |                |                  |          |                |     |              |       |
| Carbon tetrachloride            | ND     | 25.0               | 11        |                |                  |          |                |     |              |       |
| Chlorobenzene                   | ND     | 25.0               | **        |                |                  |          |                |     |              |       |
| -Chlorodibromomethane           | ND     | 250                | "         |                |                  |          |                |     |              |       |
| Chloroethane                    | ND     | 25.0               | Ħ         |                |                  |          |                |     |              |       |
| Chloroform                      | ND     | 25.0               | н         |                |                  |          |                |     |              |       |
| Chloromethane                   | ND     | 25.0               | 11        |                |                  |          |                |     |              |       |
| ⊇-Chlorotoluene                 | ND     | 25.0               | **        |                |                  |          |                |     |              |       |
| <b>∹</b> -Chlorotoluene         | ND     | 25.0               |           |                |                  |          |                |     |              |       |
| 1,2-Dibromo-3-chloropropane     | ND     | 25.0               | Ħ         |                |                  |          |                |     |              |       |
| □,2-Dibromoethane               | ND     | 25.0               | **        |                |                  |          |                |     |              |       |
| □,2-Dichlorobenzene             | ND     | 25.0               | н         |                |                  |          |                |     |              |       |
| 1,3-Dichlorobenzene             | ND     | 25.0               |           |                |                  |          |                |     |              |       |
| □,4-Dichlorobenzene             | ND     | 25.0               | ti        |                |                  |          |                |     |              |       |
| Dichlorodifluoromethane         | ND     | 25.0               | 11        |                |                  |          |                |     |              |       |
| 1,1-Dichloroethane              | ND     | 25.0               | "         |                |                  |          |                |     |              |       |
| 1,2-Dichloroethane              | ND     | 25.0               | "         |                |                  |          |                |     |              |       |
| 1,1-Dichloroethene              | ND     | 25.0               | н         |                |                  |          |                |     |              |       |
| cis-1,2-Dichloroethene          | ND     | 25.0               | Ħ         |                |                  |          |                |     |              |       |
| ■rans-1,2-Dichloroethene        | ND     | 25.0               | 11        |                |                  |          |                |     |              |       |
| ☐,2-Dichloropropane             | ND     | 25.0               | •         |                |                  |          |                |     |              |       |
| 1,3-Dichloropropane             | ND     | 25.0               | "         |                |                  |          |                |     |              |       |
| ⊇,2-Dichloropropane             | ND     | 25.0               | n         |                |                  |          |                |     |              |       |
| Di-isopropyl ether              | ND     | 25.0               | m .       |                |                  |          |                |     |              |       |
| Ethylbenzene                    | ND     | 25.0               | н         |                |                  |          |                |     |              |       |
| Hexachlorobutadiène             | ND     | 25.0               | **        |                |                  |          |                |     |              |       |
| sopropylbenzene                 | ND     | 25.0               | **        |                |                  |          |                |     |              |       |
| p-Isopropyltoluene              | ND     | 25.0               | **        |                |                  |          |                |     |              |       |
| Methylene chloride              | 257    | 100                | **        |                |                  |          |                |     |              |       |
| Methyl tert-butyl ether         | ND     | 25.0               |           |                |                  |          |                |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050 Project Manager: Mike Rehfeldt Reported: 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B - Quality Control Great Lakes Analytical--Buffalo Grove

| Analyte .                        | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits  | RPD | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-----------|----------------|------------------|----------|-----------------|-----|--------------|-------|
| Batch 4080161 - EPA 5035B [P/T]  |        |                    |           |                |                  |          |                 |     |              |       |
| Blank (4080161-BLK1)             |        |                    |           | Prepared:      | 08/09/04         | Analyzed | l: 08/10/04     |     |              |       |
| Naphthalene                      | ND     | 25.0               | ug/kg wet |                |                  |          |                 |     |              |       |
| n-Propylbenzene                  | ND     | 25.0               | 11        |                |                  |          |                 |     |              |       |
| 1,1,2,2-Tetrachloroethane        | ND     | 25.0               | "         |                |                  |          |                 |     |              |       |
| Tetrachloroethene                | ND     | 25.0               | "         |                |                  |          |                 |     |              |       |
| Toluene                          | ND     | 25.0               | "         |                |                  |          |                 |     |              |       |
| 1,2,3-Trichlorobenzene           | ND     | 25.0               | Ħ         |                |                  |          |                 |     |              |       |
| 1,2,4-Trichlorobenzene           | ND     | 25.0               | **        |                |                  |          |                 |     |              |       |
| 1,1,1-Trichloroethane            | ND     | 25.0               | Ħ         |                |                  |          |                 |     |              |       |
| 1,1,2-Trichloroethane            | ND     | 25.0               | **        |                |                  |          |                 |     |              |       |
| Trichloroethene                  | ND     | 25.0               | ••        |                |                  |          |                 |     |              |       |
| Trichlorofluoromethane           | ND     | 25.0               | ••        |                |                  |          |                 |     |              |       |
| 1,2,4-Trimethylbenzene           | ND     | 25.0               | **        |                |                  |          |                 |     |              |       |
| ☐,3,5-Trimethylbenzene           | ND     | 25.0               | ".        |                |                  |          |                 |     |              |       |
| Vinyl chloride                   | ND     | 25.0               |           |                |                  |          |                 |     |              |       |
| Total Xylenes                    | ND     | 25.0               | H.        |                |                  | •        |                 |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 2420   |                    | "         | 2500           |                  | 96.8     | 32-179          |     |              |       |
| Surrogate: Dibromofluoromethane  | 2380   |                    | "         | 2500           |                  | 95.2     | 23.1-173        |     |              |       |
| Surrogate: 4-Bromofluorobenzene  | 2580   |                    | "         | 2500           |                  | 103      | 29.2-152        |     |              |       |
| Surrogate: Toluene-d8            | 2880   |                    | "         | 2500           |                  | 115      | <i>32.1-175</i> |     |              |       |
| LCS (4080161-BS1)                |        |                    |           | Prepared:      | 08/09/04         | Analyzed | 1: 08/10/04     |     |              |       |
| Benzene                          | 1960   | 25.0               | ug/kg wet | 2500           |                  | 78.4     | 51.3-149        |     |              |       |
| Bromobenzene                     | 1970   | 25.0               | **        | 2500           |                  | 78.8     | 46.9-140        |     |              |       |
| Bromodichloromethane             | 2180   | 25.0               | **        | 2500           |                  | 87.2     | 42.1-179        |     |              |       |
| n-Butylbenzene                   | 1970   | 25.0               | "         | 2500           |                  | 78.8     | 40.2-144        |     |              |       |
| sec-Butylbenzene                 | 1930   | 25.0               | "         | 2500           |                  | 77.2     | 40.1-146        |     |              |       |
| ■ert-Butylbenzene                | 1990   | 25.0               | H         | 2500           |                  | 79.6     | 42.1-150        |     |              |       |
| Carbon tetrachloride .           | 2280   | 25.0               | **        | 2500           |                  | 91.2     | 27.5-165        |     |              |       |
| <b>■</b> Chlorobenzene           | 2090   | 25.0               | н         | 2500           |                  | 83.6     | 53.6-138        |     |              |       |
| Chlorodibromomethane             | 2350   | 250                | н         | 2500           |                  | 94.0     | 80-120          |     |              |       |
| Chloroethane                     | 772    | 25.0               | "         | 2500           |                  | 30.9     | 10-188          |     |              |       |
| Chloroform                       | 1750   | 25.0               | "         | 2500           |                  | 70.0     | 52.5-159        |     |              |       |
| Chloromethane                    | 1650   | 25.0               | "         | 2500           |                  | 66.0     | 14.2-142        |     |              |       |
| 2-Chlorotoluene                  | 1940   | 25.0               | 11        | 2500           |                  | 77.6     | 48.8-143        |     |              |       |
| <b>∃-Chlorotoluene</b>           | 2050   | 25.0               | 11        | 2500           |                  | 82.0     | 49.3-142        |     |              |       |
| ■,2-Dibromo-3-chloropropane      | 2300   | 25.0               | #         | 2500           |                  | 92.0     | 19.3-152        |     |              |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050
Project Manager: Mike Rehfeldt

**Reported:** 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B - Quality Control Great Lakes Analytical--Buffalo Grove

| Analyte                         | Result | Reporting<br>Limit | Units      | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|------------|----------------|------------------|----------|----------------|-----|--------------|-------|
| Batch 4080161 - EPA 5035B [P/T] |        |                    |            |                |                  |          |                | ·   |              |       |
| LCS (4080161-BS1)               |        |                    | •          | Prepared:      | 08/09/04         | Analyzed | 1: 08/10/04    |     |              |       |
| 1,2-Dibromoethane               | 2030   | 25.0               | ug/kg wet  | 2500           |                  | 81.2     | 46.5-141       |     |              |       |
| 1,2-Dichlorobenzene             | 2040   | 25.0               | н          | 2500           |                  | 81.6     | 48.9-135       |     |              |       |
| 1,3-Dichlorobenzene             | 2070   | 25.0               | 11         | 2500           |                  | 82.8     | 50-136         |     |              |       |
| 1,4-Dichlorobenzene             | 2020   | 25.0               | "          | 2500           |                  | 80.8     | 45.6-133       |     |              |       |
| Dichlorodifluoromethane         | 1190   | 25.0               | **         | 2500           |                  | 47.6     | 10-118         |     |              |       |
| 1,1-Dichloroethane              | 1880   | 25.0               | Ħ          | 2500           |                  | 75.2     | 41.9-151       |     |              |       |
| 1,2-Dichloroethane              | 1880   | . 25.0             | 10         | 2500           |                  | 75.2     | 34.5-170       |     |              |       |
| 1,1-Dichloroethene              | 1660   | 25.0               | "          | 2500           |                  | 66.4     | 33.1-157       |     |              |       |
| cis-1,2-Dichloroethene          | 1910   | 25.0               | н          | 2500           |                  | 76.4     | 48.2-161       |     |              |       |
| ≒rans-1,2-Dichloroethene        | 1840   | 25.0               | **         | 2500           |                  | 73.6     | 29.7-173       |     |              |       |
| 1,2-Dichloropropane             | 2060   | 25.0               | н          | 2500           |                  | 82.4     | 50-158         |     |              |       |
| 1,3-Dichloropropane             | 2040   | 25.0               | 11         | 2500           |                  | 81.6     | 50.4-138       |     |              |       |
| □2,2-Dichloropropane            | 2160   | 25.0               | **         | 2500           |                  | 86.4     | 21.4-175       |     |              |       |
| Di-isopropyl ether              | 1840   | 25.0               | <b>H</b> , | 2500           |                  | 73.6     | 13.8-210       |     |              |       |
| Ethylbenzene                    | 2090   | 25.0               | Ħ          | 2500           |                  | 83.6     | 47.5-142       |     |              |       |
| Hexachlorobutadiene             | 2050   | 25.0               | 11         | 2500           |                  | 82.0     | 28.8-148       |     |              |       |
| ∃sopropylbenzene                | 2140   | 25.0               | 11         | 2500           |                  | 85.6     | 43-149         |     |              |       |
| p-Isopropyltoluene              | 2010   | 25.0               | "          | 2500           |                  | 80.4     | 39-149         |     |              |       |
| ■Methylene chloride             | 2320   | 100                | 11         | 2500           |                  | 92.8     | 44.2-154       |     |              |       |
| ■Methyl tert-butyl ether        | 2090   | 25.0               | **         | 2500           |                  | 83.6     | 43.9-169       |     |              |       |
| Naphthalene                     | 1750   | 25.0               | н          | 2500           |                  | 70.0     | 12.8-157       |     |              |       |
| n-Propylbenzene                 | 2010   | 25.0               | 10         | 2500           |                  | 80.4     | 43.9-148       |     |              |       |
| 1,1,2,2-Tetrachloroethane       | 1650   | 25.0               | π          | 2500           |                  | 66.0     | 10-164         |     |              |       |
| Tetrachloroethene               | 2120   | 25.0               | **         | 2500           |                  | 84.8     | 34.1-150       |     |              |       |
| Toluene                         | 2060   | 25.0               | н          | 2500           |                  | 82.4     | 46.5-152       |     |              |       |
| 1,2,3-Trichlorobenzene          | 1960   | 25.0               | n          | 2500           |                  | 78.4     | 16.8-150       |     |              |       |
| 1,2,4-Trichlorobenzene          | 2000   | 25.0               | "          | 2500           |                  | 80.0     | 26.5-145       |     |              |       |
| 1,1,1-Trichloroethane           | 1980   | 25.0               | **         | 2500           |                  | 79.2     | 42-166         |     |              |       |
| 1,1,2-Trichloroethane           | 1980   | 25.0               | **         | 2500           |                  | 79.2     | 46.7-156       |     |              |       |
| Trichloroethene                 | 2160   | 25.0               | н          | 2500           |                  | 86.4     | 40.3-187       |     |              |       |
| [Trichlorofluoromethane         | 1220   | 25.0               | 11         | 2500           |                  | 48.8     | 10-181         |     |              |       |
| 1,2,4-Trimethylbenzene          | 2030   | 25.0               | •          | 2500           |                  | 81.2     | 46.4-141       |     |              |       |
| 1,3,5-Trimethylbenzene          | 1980   | 25.0               | **         | 2500           |                  | 79.2     | 44.9-146       |     |              |       |
| Vinyl chloride                  | 1720   | 25.0               | H          | 2500           |                  | 68.8     | 21.3-149       |     |              |       |
| ☐otal Xylenes                   | 6270   | 25.0               | 11         | 7500           |                  | 83.6     | 47.9-138       |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050
Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B - Quality Control Great Lakes Analytical--Buffalo Grove

| Analyte                          | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD   | RPD<br>Limit | Notes  |
|----------------------------------|--------|--------------------|-----------|----------------|------------------|----------|----------------|-------|--------------|--------|
| Batch 4080161 - EPA 5035B [P/T]  | resuit | Limit              | Oms       | Devel          |                  | 70ICEC   |                |       | AJIIIII.     | 110103 |
| LCS (4080161-BS1)                |        |                    |           | Prepared:      | 08/09/04         | Analyzed | I: 08/10/04    |       |              |        |
| Surrogate: 1,2-Dichloroethane-d4 | 2370   |                    | ug/kg wet | 2500           |                  | 94.8     | 32-179         |       |              |        |
| Surrogate: Dibromofluoromethane  | 2280   |                    | "         | 2500           |                  | 91.2     | 23.1-173       |       |              |        |
| Surrogate: 4-Bromofluorobenzene  | 2700   |                    | "         | 2500           |                  | 108      | 29.2-152       |       |              |        |
| Surrogate: Toluene-d8            | 2590   |                    | "         | 2500           |                  | 104      | 32.1-175       |       |              |        |
| LCS Dup (4080161-BSD1)           |        |                    |           | Prepared:      | 08/09/04         | Analyzed | 1: 08/10/04    |       |              |        |
| Benzene                          | 1970   | 25.0               | ug/kg wet | 2500           |                  | 78.8     | 51.3-149       | 0.509 | 28.3         |        |
| Bromobenzene                     | 2000   | 25.0               | **        | 2500           |                  | 80.0     | 46.9-140       | 1.51  | 28.2         |        |
| Bromodichloromethane             | 2180   | 25.0               | n         | 2500           |                  | 87.2     | 42.1-179       | 0.00  | 37           |        |
| n-Butylbenzene                   | 2060   | 25.0               | 11        | 2500           |                  | 82.4     | 40.2-144       | 4.47  | 30.6         |        |
| _sec-Butylbenzene                | 1950   | 25.0               | "         | 2500           |                  | 78.0     | 40.1-146       | 1.03  | 31.3         |        |
| tert-Butylbenzene                | 2000   | 25.0               | H         | 2500           |                  | 80.0     | 42.1-150       | 0.501 | 31           |        |
| -Carbon tetrachloride            | 2320   | 25.0               | 17        | 2500           |                  | 92.8     | 27.5-165       | 1.74  | 28.4         |        |
| -Chlorobenzene                   | 2090   | 25.0               | **        | 2500           |                  | 83.6     | 53.6-138       | 0.00  | 30.1         |        |
| Chlorodibromomethane             | 2350   | 250                | **        | 2500           |                  | 94.0     | 80-120         | 0.00  | 20           |        |
| -Chloroethane                    | 834    | 25.0               | **        | 2500           |                  | 33.4     | 10-188         | 7.72  | 87.6         |        |
| Chloroform                       | 1720   | 25.0               | **        | 2500           |                  | 68.8     | 52.5-159       | 1.73  | 29           |        |
| Chloromethane                    | 1550   | 25.0               | 11        | 2500           |                  | 62.0     | 14.2-142       | 6.25  | 58.6         |        |
| 2-Chlorotoluene                  | 1940   | 25.0               | n         | 2500           |                  | 77.6     | 48.8-143       | 0.00  | 28.6         |        |
| -4-Chlorotoluene                 | 2090   | 25.0               | 11        | 2500           |                  | 83.6     | 49.3-142       | 1.93  | 27           |        |
| 1,2-Dibromo-3-chloropropane      | 2410   | 25.0               | **        | 2500           |                  | 96.4     | 19.3-152       | 4.67  | 56.1         |        |
| 1,2-Dibromoethane                | 2060   | 25.0               | "         | 2500           |                  | 82.4     | 46.5-141       | 1.47  | 52.6         |        |
| 1,2-Dichlorobenzene              | 2090   | 25.0               | n         | 2500           |                  | 83.6     | 48.9-135       | 2.42  | 24.2         |        |
| 1,3-Dichlorobenzene              | 2110   | 25.0               | 19        | 2500           |                  | 84.4     | 50-136         | 1.91  | 24.5         |        |
| 1,4-Dichlorobenzene              | 2070   | 25.0               | "         | 2500           |                  | 82.8     | 45.6-133       | 2.44  | 24.2         |        |
| Dichlorodifluoromethane          | 1200   | 25.0               | **        | 2500           |                  | 48.0     | 10-118         | 0.837 | 59.8         |        |
| 1,1-Dichloroethane               | 1830   | 25.0               | H         | 2500           |                  | 73.2     | 41.9-151       | 2.70  | 29.5         |        |
| 1,2-Dichloroethane               | 1850   | 25.0               | **        | 2500           |                  | 74.0     | 34.5-170       | 1.61  | 46.8         |        |
| 1,1-Dichloroethene               | 1610   | 25.0               |           | 2500           |                  | 64.4     | 33.1-157       | 3.06  | 35.9         |        |
| cis-1,2-Dichloroethene           | 1880   | 25.0               | ••        | 2500           |                  | 75.2     | 48.2-161       | 1.58  | 27           |        |
| trans-1,2-Dichloroethene         | 1810   | 25.0               | **        | 2500           |                  | 72.4     | 29.7-173       | 1.64  | 30.1         |        |
| 1,2-Dichloropropane              | 2050   | 25.0               | н         | 2500           |                  | 82.0     | 50-158         | 0.487 | 35.1         |        |
| 1,3-Dichloropropane              | 2060   | 25.0               | **        | 2500           |                  | 82.4     | 50.4-138       | 0.976 | 50.5         |        |
| 2,2-Dichloropropane              | 2120   | 25.0               | "         | 2500           |                  | 84.8     | 21.4-175       | 1.87  | 53.5         |        |
| Di-isopropyl ether               | 1800   | 25.0               | #         | 2500           |                  | 72.0     | 13.8-210       | 2.20  | 32.8         |        |
| Ethylbenzene                     | 2080   | 25.0               | 11        | 2500           |                  | 83.2     | 47.5-142       |       | 32.4         |        |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050 Project Manager: Mike Rehfeldt Reported: 08/13/04 12:36

## WDNR Volatile Organic Compounds by Method 8260B - Quality Control Great Lakes Analytical--Buffalo Grove

| Analyte                          | Result | Reporting<br>Limit |             | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD · | RPD<br>Limit | Notes         |
|----------------------------------|--------|--------------------|-------------|----------------|------------------|----------|----------------|-------|--------------|---------------|
| Batch 4080161 - EPA 5035B [P/T]  |        |                    | <del></del> |                |                  |          |                |       |              | - <del></del> |
| LCS Dup (4080161-BSD1)           |        |                    |             | Prepared:      | 08/09/04         | Analyzed | 1: 08/10/04    |       |              | •             |
| Hexachlorobutadiene              | 2170   | 25.0               | ug/kg wet   | 2500           |                  | 86.8     | 28.8-148       | 5.69  | 56.9         |               |
| Isopropylbenzene                 | 2160   | 25.0               | tt          | 2500           |                  | 86.4     | 43-149         | 0.930 | 38.2         |               |
| p-Isopropyltoluene               | 2040   | 25.0               | "           | 2500           |                  | 81.6     | 39-149         | 1.48  | 29.8         |               |
| Methylene chloride               | 2280   | 100                | TI .        | 2500           |                  | 91.2     | 44.2-154       | 1.74  | 33.4         |               |
| Methyl tert-butyl ether          | 2060   | 25.0               | "           | 2500           |                  | 82.4     | 43.9-169       | 1.45  | 57.2         |               |
| Naphthalene                      | 1950   | 25.0               | #           | 2500           |                  | 78.0     | 12.8-157       | 10.8  | 59.1         |               |
| ■-Propylbenzene                  | 2050   | 25.0               | 11          | 2500           |                  | 82.0     | 43.9-148       | 1.97  | 31.8         |               |
| 1,1,2,2-Tetrachloroethane        | 1660   | 25.0               | u           | 2500           |                  | 66.4     | 10-164         | 0.604 | 87.3         |               |
| Tetrachloroethene                | 2120   | 25.0               | n           | 2500           |                  | 84.8     | 34.1-150       | 0.00  | 38.2         |               |
| Toluene                          | 2050   | 25.0               | 11          | 2500           |                  | 82.0     | 46.5-152       | 0.487 | 37.6         |               |
| 1,2,3-Trichlorobenzene           | 2180   | 25.0               | **          | 2500           |                  | 87.2     | 16.8-150       | 10.6  | 66           |               |
| 1,2,4-Trichlorobenzene           | 2230   | 25.0               | n           | 2500           |                  | 89.2     | 26.5-145       | 10.9  | 50.6         |               |
| 1,1,1-Trichloroethane            | 1940   | 25.0               | n           | 2500           |                  | 77.6     | 42-166         | 2.04  | 26           |               |
| ☐,1,2-Trichloroethane            | 2020   | 25.0               | n ·         | 2500           |                  | 80.8     | 46.7-156       | 2.00  | 48           |               |
| Trichloroethene                  | 2170   | 25.0               | 11          | 2500           |                  | 86.8     | 40.3-187       | 0.462 | 35           |               |
| Trichlorofluoromethane           | 988    | 25.0               | **          | 2500           |                  | 39.5     | 10-181         | 21.0  | 119          |               |
| 1,2,4-Trimethylbenzene           | 2040   | 25.0               | **          | 2500           |                  | 81.6     | 46.4-141       | 0.491 | 27.1         |               |
| 1,3,5-Trimethylbenzene           | 2020   | 25.0               | n.          | 2500           |                  | 80.8     | 44.9-146       | 2.00  | 29.8         |               |
| Vinyl chloride                   | 1680   | 25.0               | #           | 2500           |                  | 67.2     | 21.3-149       | 2.35  | 69.1         |               |
| Total Xylenes                    | 6320   | 25.0               | n           | 7500           |                  | 84.3     | 47.9-138       | 0.794 | 35.6         |               |
| Surrogate: 1,2-Dichloroethane-d4 | 2360   |                    | "           | 2500           |                  | 94.4     | 32-179         |       |              |               |
| -Surrogate: Dibromofluoromethane | 2270   |                    | "           | 2500           |                  | 90.8     | 23.1-173       |       |              |               |
| Surrogate: 4-Bromofluorobenzene  | 2710   |                    | "           | 2500           |                  | 108      | 29.2-152       |       |              |               |
| Surrogate: Toluene-d8            | 2630   |                    | "           | 2500           |                  | 105      | 32.1-175       |       |              |               |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: MPL Realty

Project Number: 7-21050
Project Manager: Mike Rehfeldt

Reported: 08/13/04 12:36

#### Notes and Definitions

A The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.

B The method blank associated with this sample contains 257 ug/Kg of this analyte.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

\* The laboratory is not NELAP accredited for this analyte.

\*\* The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307





Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager



## OF BUSINESS SERVICE

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 140 E. Byan Road Oak Creek, WI 53154 (414) 570-9460 FAX (414) 570-9461

| Client: M, E.S,   |  | Bill To:       | 1                 | Cr        | NO                | 1      |  |   |          |      |      | TAT:           | (<br>STD) | 4 DA     | AY 3 <u>1</u> | DAY 2                | DAY           | 1 DAY     | < 24 HRS     |          |
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| Report to: E-mail: Methers 7-21058/Mo: Rahmy  |  | Progran        | <sup>4:</sup> 072 | 1/4       | J8 T              | Fa     | ax #:  | (                                       | <u>)</u> |      | l    | □ ST           | D [       | Othe     | er G          | LA D                 | Client [      | Shipped   | I ☐ Courier  |          |
| Hojectivanie. 4 Plant Part Ranking  | /  | /              | ,                 | / #       | of Bot<br>ervativ | tles   | . /:   | \$ /x                                   |          |      | //   | / /            |           |          | / /           | SAMPLI               | E /           |           |              |          |
| Project #/PO#:  | ₽ /  | & / W          | <i>/</i> -        | 7 /       | 7 /               | 7 7    |  |   |          | /\$  |      |                | / /       | / /      | / /           | CONTRO               | 7             |           |              | İ        |
| Sampler: MIKE RESTERANT / M. &  |  |                | [ /2/             | \<br>  \\ |                   | / /4 / |  | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |          |      | / ,  | / #/           |           |          |               | :/\$\<br>!\\$\alpha\ | LA            | BOR/      | ATORY        |          |
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|   | 0935   | İ              | 2                 |           |                   | 1 Z    | ,  |   | XX       |      |      |                |           |          |               |                      |               |           | -0           |          |
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| PID:  |  |                |                   |           |                   |        |  |   |          |      |      |                |           |          | _             |                      |               |           |              |          |
| 7   |  |                |                   |           |                   |        |  |   |          | 1    | Ì    |                |           |          |               |                      |               |           |              |          |
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| 9   |  |                |                   |           |                   |        |  |   |          |      |      |                |           |          |               |                      |               |           |              | $\neg$   |
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| 10  | į  |                |                   |           |                   |        |  |   |          |      |      |                |           |          |               |                      |               |           |              |          |
| RELINQUISHED 2-27-C4 RECEIVED   |  | 8/X.           |                   | 11:40     |                   | LINQU  | IISHEL                                       |   |          | 11,  | 7/27 | lou<br>•       | RECE      | IVED     | 1             | Ster                 | ~             |           | 7/27/2       | <i></i>  |
| REL NQUISHED RECEIVED   | 7 /  |                |                   |           |                   | LINGU  | IISHEL                                       | )                                       |          |      |      |                | RECE      |          |               | <u> </u>             | - <del></del> |           |              |          |
| COMMENTS:   |  |                |                   |           |                   |        | · · · · · · · · · · · · · · · · · · ·        |   |          |      |      |                | -         |          |               |                      |               |           | <u> </u>     | T        |
|   | <u></u> -  |                |                   |           |                   |        | ·  |   |          |      |      |                |           |          | P             | 4GF                  | 7             |           | OF 1         | 7        |



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

**Reported:** 01/23/04 16:29

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW-10     | W401194-01    | Water  | 01/20/04 00:00 | 01/20/04 11:40 |
| MW-102    | W401194-02    | Water  | 01/20/04 00:00 | 01/20/04 11:40 |
| MW-103    | W401194-03    | Water  | 01/20/04 00:00 | 01/20/04 11:40 |
| MW-7      | W401194-04    | Water  | 01/20/04 00:00 | 01/20/04 11:40 |
| MW-9      | W401194-05    | Water  | 01/20/04 00:00 | 01/20/04 11:40 |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260

### Great Lakes Analytical--Oak Creek

| Analyte                        | Result                  | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Note |
|--------------------------------|-------------------------|--------------------|-------|----------|---------|----------|----------|-----------|------|
| L                              | <del></del>             |                    |       |          | Datch   | гтерагеа | Analyzed |           |      |
| MW-10 (W401194-01) Water       | Sampled: 01/20/04 00:00 |                    |       | 11:40    |         |          |          |           | Q    |
| Benzene                        | 1.04                    | 0.500              | ug/l  | 1        | 4010083 | 01/20/04 | 01/23/04 | EPA 8260B |      |
| Bromobenzene                   | ND                      | 5.00               | "     | "        | **      | **       | II .     | "         |      |
| Bromodichloromethane           | ND                      | 0.359              | "     | n        | "       | 11       | s ##     | lt .      |      |
| n-Butylbenzene                 | ND                      | 5.00               | "     | 17       | **      | 11       | #        | #         |      |
| sec-Butylbenzene               | ND                      | 5.00               | "     | "        | "       | 11       | Ħ        | **        |      |
| tert-Butylbenzene              | ND                      | 5.00               | "     | **       | "       | **       | #        | #         |      |
| Carbon tetrachloride           | ND                      | 0.592              | **    | **       | "       | н        | **       | "         |      |
| Chlorobenzene                  | ND                      | 5.00               | "     | **       | **      | #        | п .      | 11        |      |
| Chloroethane                   | ND                      | 5.00               | 11    | **       | **      | **       | Ħ        | 11        |      |
| Chloroform                     | ND                      | 0.463              | **    | "        | **      | **       | "        | 11        |      |
| Chloromethane                  | ND                      | 0.920              | "     | "        | 11      | **       | er e     | "         |      |
| 2-Chlorotoluene                | ND                      | 5.00               | "     | "        | n       | **       | 11       | **        |      |
| 4-Chlorotoluene                | ND                      | 5.00               | "     | "        | **      | "        | "        | u         |      |
| Dibromochloromethane           | ND                      | 5.00               | "     | "        | **      | "        | "        | "         |      |
| 1,2-Dibromo-3-chloropropane    | ND                      | 0.629              | **    |          | 11      | n        | **       |           |      |
| 1,2-Dibromoethane              | ND                      | 0.329              | 11    | **       | 11      | Ħ        | **       | "         |      |
| 1,2-Dichlorobenzene            | ND                      | 5.00               | 11    | **       | **      | 11       | "        | "         |      |
| 1,3-Dichlorobenzene            | ND                      | 5.00               | "     | **       | 1.00    | 11       | **       | "         |      |
| 1,4-Dichlorobenzene            | ND                      | 5.00               | "     | "        | **      | "        | Ħ        | **        |      |
| Dichlorodifluoromethane        | ND                      | 5.00               | **    | "        | **      | "        | "        | **        |      |
| 1,1-Dichloroethane             | ND                      | 5.00               | **    | **       | **      | 11       | 11       | ••        |      |
| 1,2-Dichloroethane             | ND                      | 0.500              | **    | **       | **      | **       | n        | **        |      |
| 1,1-Dichloroethene             | 3.34                    | 0.500              | **    | 11       | "       | **       | n        | **        |      |
| cis-1,2-Dichloroethene         | ND                      | 5.00               | **    | 11       | **      | n        | "        |           | •    |
| trans-1,2-Dichloroethene       | ND                      | 5.00               | н     | 11       | **      | n        | n        | **        |      |
| 1,2-Dichloropropane            | ND                      | 0.500              | n     | 11       | 11      | н        | n        | n .       |      |
| 1,3-Dichloropropane            | ND                      | 5.00               | **    | 11       | ••      | n        | 11       | n         |      |
| 2,2-Dichloropropane            | ND                      | 5.00               | **    | "        |         | 11       | **       | **        |      |
| Di-isopropyl ether             | ND                      | 5.00               | **    | "        |         | **       | Ħ        | **        |      |
| Ethylbenzene                   | ND                      | 5.00               | **    | **       | 11      | **       | n        | "         |      |
| Hexachlorobutadiene            | ND                      | 10.0               | **    | **       | **      | 11       | **       | 11        |      |
| Isopropylbenzene               | ND                      | 5.00               | н     | **       | **      | **       | n        | "         |      |
| o-Isopropyltoluene             | ND<br>ND                | 5.00               | **    | "        | **      | "        | #        | n,        |      |
| Methylene chloride             | ND .                    | 0.641              |       | "        | **      | "        | **       | .,,       |      |
| Methyl tert-butyl ether        | ND<br>ND                | 0.381              | **    | **       | 11      | "        | "        | , ,       |      |
| Naphthalene                    | ND<br>ND                | 8.00               | **    | **       | 11      |          | **       | "         |      |
| naphthalene<br>1-Propylbenzene | ND<br>ND                | 5.00               | 17    | 11       | 11      |          | 11       | **        |      |
|                                | ND<br>ND                |                    |       |          |         | "        | #        | **        | •    |
| 1,1,2,2-Tetrachloroethane      |                         | 0.422              |       |          | ,,      | "        |          | "<br>"    |      |
| Tetrachloroethene              | 21.0<br>ND              | 0.500              | **    |          | " .     | ,,       | <br>#    | "         |      |
| Foluene                        | ND                      | 5.00               | "     | "        | "       | "        | "        | "         |      |
| 1,2,3-Trichlorobenzene         | ND                      | 10.0               |       | "        |         |          | #        |           |      |
| / 4- I mchiorobenzene          | ND                      | 10.0               | "     | 17       | 17      | 11       | 17       | 11        |      |

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea Stathas, Project Manager



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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

### WDNR Volatile Organic Compounds by Method 8260 Great Lakes Analytical--Oak Creek

| Analyte                         | Result                  | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-10 (W401194-01) Water        | Sampled: 01/20/04 00:00 | Received           | 01/20/04   | 11:40    |         |          |          |           | QC    |
| 1,1,1-Trichloroethane           | 34.2                    | 5.00               | ug/l       | 1        | 4010083 | 01/20/04 | 01/23/04 | EPA 8260B | · · · |
| 1,1,2-Trichloroethane           | ND                      | 0.347              | "          | "        | 11      | 17       | n        | 11        |       |
| Trichloroethene                 | 64.4                    | 0.500              | **         | "        | "       | "        | **       | 11        |       |
| Trichlorofluoromethane          | ND                      | 5.00               | n          | n        | **      | "        | n        | "         |       |
| 1,2,4-Trimethylbenzene          | ND                      | 5.00               | "          | 11       | ' #     | "        | "        | H.        |       |
| 1,3,5-Trimethylbenzene          | ND                      | 5.00               | II .       | 11       | **      | "        | **       | "         |       |
| Vinyl chloride                  | 4.06                    | 0.652              | "          | 11       | Ħ       | "        | "        | n         |       |
| Total Xylenes                   | ND ND                   | 5.00               | "          | "        |         | . "      |          | n         |       |
| Surrogate: Dibromofluorometha   | ne                      | 85.6 %             | 70-        | 130      | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-a | 14                      | 84.4 %             | 70-        | 130      | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8           |                         | 109 %              | 70-        | 130      | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzer  | пе                      | 94.0 %             | 70-        | 130      | "       | "        | "        | "         |       |
| MW-102 (W401194-02) Water       | Sampled: 01/20/04 00:00 | Receive            | 1: 01/20/0 | 04 11:40 |         |          |          |           | QC    |
| Benzene                         | 1.30                    | 0.500              | ug/1       | 1        | 4010083 | 01/20/04 | 01/22/04 | EPA 8260B |       |
| Bromobenzene                    | ND                      | 5.00               | **         | **       | **      | 11       | "        | 11        |       |
| Bromodichloromethane            | ND                      | 0.359              | "          | **       | "       | "        | "        | "         |       |
| n-Butylbenzene                  | ND                      | 5.00               | **         | "        | **      | "        | **       | 11        |       |
| sec-Butylbenzene                | ND                      | 5.00               | "          | H        | "       | "        | n        | "         |       |
| tert-Butylbenzene               | ND                      | 5.00               | **         | "        | **      | "        | 11       | "         |       |
| Carbon tetrachloride            | ND                      | 0.592              | **         | "        | **      | "        | **       | n         |       |
| Chlorobenzene                   | ND                      | 5.00               | **         | **       | **      | "        | **       | "         |       |
| Chloroethane                    | ND                      | 5.00               | **         | 11       | "       | "        | **       | "         |       |
| Chloroform                      | ND                      | 0.463              | **         | "        | tt      | "        | 11       | **        |       |
| Chloromethane                   | ND                      | 0.920              | **         | "        | 11      | **       | 11       | n         |       |
| 2-Chlorotoluene                 | ND                      | 5.00               | "          | n.       | 11      | n        | "        | 11        |       |
| 4-Chlorotoluene                 | ND                      | 5.00               | **         | **       | "       | **       | н        | 11        |       |
| Dibromochloromethane            | ND                      | 5.00               | 11         | n        | "       | **       | n        | 19        |       |
| 1,2-Dibromo-3-chloropropane     | ND                      | 0.629              | **         | **       | "       | 11       | **       | 11        |       |
| 1,2-Dibromoethane               | ND                      | 0.329              | "          | **       | **      | "        | **       | "         |       |
| 1,2-Dichlorobenzene             | ND                      | 5.00               | "          | "        | **      | "        | n        | n .       |       |
| 1,3-Dichlorobenzene             | ND                      | 5.00               | "          | "        | "       | "        | **       | n         |       |
| 1,4-Dichlorobenzene             | ND                      | 5.00               | "          | "        | "       | **       | 11       | rr ·      |       |
| Dichlorodifluoromethane         | ND                      | 5.00               | "          | "        | **      | "        | 11       | **        |       |
| 1,1-Dichloroethane              | ND                      | 5.00               | 11         | "        | 11      | **       | "        | **        |       |
| 1,2-Dichloroethane              | 1.44                    | 0.500              | "          | "        | **      | "        | •        | n         |       |
| 1,1-Dichloroethene              | ND                      | 0.500              | "          | **       | **      | 17       | "        | n         |       |
| cis-1,2-Dichloroethene          | 14.2                    | 5.00               | "          | 11       |         | "        | n        | n         |       |
| trans-1,2-Dichloroethene        | ND                      | 5.00               | 11         | n        |         | 17       | n        | н         |       |
| 1,2-Dichloropropane             | ND                      | 0.500              |            | **       | tt      | 11       | n        | "         |       |
| 1,3-Dichloropropane             | ND                      | 5.00               |            | **       | **      | **       | ***      | . "       |       |
| 2,2-Dichloropropane             | 112                     | 5.00               |            |          | **      |          |          |           |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260

### Great Lakes Analytical--Oak Creek

| Analyte                          | . Result                | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-102 (W401194-02) Water        | Sampled: 01/20/04 00:00 | Received           | 1: 01/20/0 | 04 11:40 |         | <u> </u> |          |           | QC    |
| Di-isopropyl ether               | ND                      | 5.00               | ug/l       | 1        | 4010083 | 01/20/04 | 01/22/04 | EPA 8260B |       |
| Ethylbenzene                     | ND                      | 5.00               | 11         | 11       | u u     | "        | **       | **        |       |
| Hexachlorobutadiene              | ND                      | 10.0               | 11         | **       | 11      | 11       | "        | n         |       |
| Isopropylbenzene                 | ND                      | 5.00               | **         | n        | "       | **       | u        | **        |       |
| p-Isopropyltoluene               | ND ND                   | 5.00               | 11         | "        | н       | 11       | "        | n         |       |
| Methylene chloride               | ND                      | 0.641              |            | H        | **      | **       | W        | n         |       |
| Methyl tert-butyl ether          | 1.27                    | 0.381              | n          | **       | **      | "        | *        | **        |       |
| Naphthalene                      | ND                      | 8.00               | n          | "        | **      | 11       | "        | n         |       |
| n-Propylbenzene                  | ND                      | 5.00               |            | 11       | **      | **       | "        | 11        |       |
| 1,1,2,2-Tetrachloroethane        | ND                      | 0.422              | n          | **       | m .     | n        | 17       |           |       |
| Tetrachloroethene                | ND                      | 0.500              |            |          | "       | m        | 11       | **        |       |
| Toluene                          | ND .                    | 5.00               | "          | **       | n       | 11       | 11       | **        |       |
| 1,2,3-Trichlorobenzene           | ND                      | 10.0               | **         | **       | n       |          | **       | n         |       |
| 1,2,4-Trichlorobenzene           | ND                      | 10.0               | n          | 11       | **      | "        | "        | "         |       |
| 1,1,1-Trichloroethane            | ND                      | 5.00               | **         | "        | 11      | II.      | **       | **        |       |
| 1,1,2-Trichloroethane            | ND                      | 0.347              | "          | "        | "       | "        | **       | **        |       |
| Trichloroethene                  | 12.8                    | 0.500              | "          | **       | n       | "        | 111      | "         |       |
| Trichlorofluoromethane           | ND                      | 5.00               | **         | "        | #       | "        | n        | "         |       |
| 1,2,4-Trimethylbenzene           | ND                      | 5.00               | 11         | **       | **      | 11       | 11       | "         |       |
| 1,3,5-Trimethylbenzene           | ND                      | 5.00               | **         | "        | **      | "        | "        | •         |       |
| Vinyl chloride                   | ND                      | 0.652              |            | "        | "       | n        | Ħ        | **        |       |
| Total Xylenes                    | ND                      | 5.00               | **         | n        | **      | **       | 11       | **        |       |
| Surrogate: Dibromofluoromethan   |                         | 111%               | 70-        | 130      | ,,      | ,,       | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |                         | 109 %              | 70-1       | -        | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |                         | 114%               | 70-1       |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |                         | 90.6 %             | 70-1       | =        | "       | "        | "        | "         |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260

Great Lakes Analytical-Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-103 (W401194-03) Water   | Sampled: 01/20/04 00:00 | Receive            | d: 01/20/0 | 4 11:40  |         |          |          |           | QC    |
| Benzene                     | ND                      | 0.500              | ug/l       | 1        | 4010083 | 01/20/04 | 01/22/04 | EPA 8260B |       |
| Bromobenzene                | ND                      | 5.00               | **         | "        | "       | ñ        | **       | **        |       |
| Bromodichloromethane        | ND                      | 0.359              | и .        | 11       | · n     | "        | "        | **        |       |
| n-Butylbenzene              | ND                      | 5.00               | 11         | "        | 11      | "        | . **     | n         |       |
| sec-Butylbenzene            | ND                      | 5.00               |            | "        | 11      | 11       | "        | "         |       |
| tert-Butylbenzene           | ND                      | 5.00               |            | "        | **      | 11       | 11       | u u       |       |
| Carbon tetrachloride        | ND                      | 0.592              | Ħ          | **       | 11      | 11       | "        | "         |       |
| Chlorobenzene               | ND                      | 5.00               | 11         | tt .     | **      | "        | "        | 11        |       |
| Chloroethane                | ND                      | 5.00               | 11         | 11       | n       | "        | "        | 11        |       |
| Chloroform                  | ND                      | 0.463              | "          | **       | "       | n        | 11       | "         |       |
| Chloromethane               | 14.7                    | 0.920              | "          | "        | **      | " .      | "        | "         |       |
| 2-Chlorotoluene             | ND                      | 5.00               | **         | #        | **      | n        | . "      | **        |       |
| 4-Chlorotoluene             | ND                      | 5.00               | **         | **       | 11      | "        | **       | 17        |       |
| Dibromochloromethane        | ND                      | 5.00               | **         | "        | 11      | H        | **       | "         |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.629              | "          | "        | "       | **       | **       | "         |       |
| 1,2-Dibromoethane           | ND                      | 0.329              | "          | **       |         | 11       | **       | 11        |       |
| 1,2-Dichlorobenzene         | ND                      | 5.00               | **         | 11       | **      | **       | **       | н         |       |
| 1,3-Dichlorobenzene         | ND                      | 5.00               | **         | **       | **      | **       | **       | н         |       |
| 1,4-Dichlorobenzene         | ND                      | 5.00               | H          | Ħ        | **      | 11       | 11       | **        |       |
| Dichlorodifluoromethane     | ND                      | 5.00               | 11         | H        | tt      | **       | "        | n         |       |
| 1,1-Dichloroethane          | ND                      | 5.00               | **         | 11       | n       | "        | "        | **        |       |
| 1,2-Dichloroethane          | ND                      | 0.500              | #          | 11       | **      | **       | ••       | 11        |       |
| 1,1-Dichloroethene          | ND                      | 0.500              | **         | 11       | n       | **       | ••       | n         |       |
| cis-1,2-Dichloroethene      | ND                      | 5.00               | Ħ          | 11       | **      | 11       | "        | 11        |       |
| trans-1,2-Dichloroethene    | ND                      | 5.00               | 11         | 11       | Ħ       | **       | "        | 18        |       |
| 1,2-Dichloropropane         | ND                      | 0.500              | n          | 11       | н       | "        | "        | 11        |       |
| 1,3-Dichloropropane         | ND                      | 5.00               |            |          | **      | Ħ        | **       | 11        |       |
| 2,2-Dichloropropane         | ND                      | 5.00               |            | **       | **      | . н      | **       | 11        |       |
| Di-isopropyl ether          | ND                      | 5.00               | 11         | **       | "       | n        | 11       | **        |       |
| Ethylbenzene                | ND                      | 5.00               | n          | **       | "       | 11       |          | **        |       |
| Hexachlorobutadiene         | ND                      | 10.0               | **         | H        | "       | 11       | **       | **        |       |
| Isopropylbenzene            | ND                      | 5.00               | "          | *        | n       | "        | "        | н         |       |
| p-Isopropyltoluene          | ND                      | 5.00               | "          | 11       | 11      |          | ,,       | 11        |       |
| Methylene chloride          | ND                      | 0.641              | "          | 11       | "       |          |          | tt        |       |
| Methyl tert-butyl ether     | ND                      | 0.381              | "          | **       | "       | "        | .,       | 11        |       |
| Naphthalene                 | ND                      | 8.00               | 11         | **       | "       | "        | ,,       | 11        |       |
| n-Propylbenzene             | ND                      | 5.00               | "          |          | "       | . "      | н        | n         |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.422              | 11         | "        | "       | **       | 11       | "         |       |
| Tetrachloroethene           | ND                      | 0.500              | 11         | н        | "       | 11       | **       | "         |       |
| Toluene                     | ND                      | 5.00               | "          | 11       | 11      | "        | 11       |           |       |
| 1,2,3-Trichlorobenzene      | ND<br>ND                | 10.0               |            | "        | **      | "        | **       | H         |       |
| 1,2,4-Trichlorobenzene      | ND<br>ND                | 10.0               | п          | **       | **      | ii .     |          | 11        |       |
| 1,2,1 THOMOTOUCHZONG        | ·                       | 10.0               |            |          |         |          |          |           |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

### **WDNR Volatile Organic Compounds by Method 8260** Great Lakes Analytical--Oak Creek

| Analyte                         | Result                   | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------|--------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-103 (W401194-03) Water       | Sampled: 01/20/04 00:00  | Receive            | d: 01/20/( | 04 11:40 |         |          |          |           | QC    |
| 1,1,1-Trichloroethane           | ND                       | 5.00               | ug/l       | 1        | 4010083 | 01/20/04 | 01/22/04 | EPA 8260B |       |
| 1,1,2-Trichloroethane           | ND                       | 0.347              | "          | n        | 11      | . "      | "        | • .       |       |
| Trichloroethene                 | 0.720                    | 0.500              | 11         | **       | "       | 11       | "        | "         |       |
| Trichlorofluoromethane          | ND                       | 5.00               | "          | **       | "       | 11       | "        | "         |       |
| 1,2,4-Trimethylbenzene          | ND                       | 5.00               | "          | "        | H       | "        | **       | **        |       |
| 1,3,5-Trimethylbenzene          | ND                       | 5.00               | "          | "        | **      | 11       | **       | Ħ         |       |
| Vinyl chloride                  | ND                       | 0.652              | **         | 11       | "       | **       | **       | "         |       |
| Total Xylenes                   | ND                       | 5.00               | 11         | "        | "       | "        | . 11     | "         |       |
| Surrogate: Dibromofluoromethan  | 1e                       | 97.6 %             | 70-        | 130      | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d | 4                        | 98.6 %             | 70         | 130      | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8           |                          | 113%               | 70         | 130      | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzen  | e                        | 90.0 %             | 70         | 130      | "       | "        | "        | "         |       |
| MW-7 (W401194-04) Water S       | ampled: 01/20/04 00:00 J | Received:          | 01/20/04   | 11:40    |         |          |          |           | QC    |
| Benzene                         | ND                       | 0.500              | ug/l       | 1        | 4010083 | 01/20/04 | 01/22/04 | EPA 8260B | · .   |
| Bromobenzene                    | ND                       | 5.00               | "          | 11       | **      | **       | **       | "         |       |
| Bromodichloromethane            | ND                       | 0.359              | "          | 11       | "       | **       | •        | "         |       |
| n-Butylbenzene                  | ND                       | 5.00               |            | **       | **      | 11       | **       | "         |       |
| sec-Butylbenzene                | ND                       | 5.00               | н          | **       | 11      | "        | ,,       | "         |       |
| tert-Butylbenzene               | ND                       | 5.00               | 17         | "        | 11      | "        | "        | H         |       |
| Carbon tetrachloride            | ND                       | 0.592              | "          | н        | **      |          | **       | **        |       |
| Chlorobenzene                   | ND                       | 5.00               | ,,         | **       | **      |          | "        | 11        |       |
| Chloroethane                    | ND                       | 5.00               | 17         | **       | **      |          | n        | , n       |       |
| Chloroform                      | ND                       | 0.463              | "          | **       | н       |          | 11       | Ħ         |       |
| Chloromethane                   | 9.41                     | 0.920              | **         | "        | "       | **       | **       | 18        |       |
| 2-Chlorotoluene                 | ND                       | 5.00               |            | **       | **      | 11       | "        |           | +     |
| 4-Chlorotoluene                 | ND                       | 5.00               | 11         | **       | "       | "        |          | "         |       |
| Dibromochloromethane            | ND                       | 5.00               | **         | **       | **      |          | **       | **        |       |
| 1,2-Dibromo-3-chloropropane     | ND                       | 0.629              | 11         | **       | "       | ır       | n        | **        |       |
| 1,2-Dibromoethane               | ND                       | 0.329              | н          | **       | **      | 17       | n        | n         |       |
| 1,2-Dichlorobenzene             | ND                       | 5.00               | n          |          |         | **       | **       | •         |       |
| 1,3-Dichlorobenzene             | ND                       | 5.00               | 11         | "        | **      | **       | **       | **        |       |
| 1,4-Dichlorobenzene             | ND                       | 5.00               | 11         | **       | 11      | "        | "        | 11        |       |
| Dichlorodifluoromethane         | ND                       | 5.00               | "          | 11       | 11      | "        | **       | 11        |       |
| 1,1-Dichloroethane              | ND<br>ND                 | 5.00               | "          | 11       | **      | 11       | "        |           |       |
| 1,1-Dichloroethane              |                          | 0.500              | **         | ,,       | **      | **       | n        | 11        |       |
| 1,1-Dichloroethene              | 1.93<br>ND               | 0.500              | ni .       | ,,       | **      | 11       | n        |           |       |
| cis-1,2-Dichloroethene          | ND<br>ND                 | 5.00               |            |          |         | 11       | "        | u u       |       |
|                                 | ND                       |                    | 11         | ,,       |         | .,       | "        | "         |       |
| trans-1,2-Dichloroethene        |                          | 5.00               | #          | "        | ,,      | . "      | "<br>n   |           |       |
| 1,2-Dichloropropane             | ND                       | 0.500              | ,,         | 11       | "       | "        | " "      | "         |       |
| 1,3-Dichloropropane             | ND                       | 5.00               |            |          |         | "        | " "      | "         | •     |
| 2,2-Dichloropropane             | ND                       | 5.00               | "          | "        | 11      | "        | ••       | **        |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

Project: 7-21058

205 Wilmont Dr. Waukesha, WI 53189 Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

### WDNR Volatile Organic Compounds by Method 8260

### Great Lakes Analytical--Oak Creek

| Analyte                          | Result                 | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------|------------------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| MW-7 (W401194-04) Water Sa       | ampled: 01/20/04 00:00 | Received:          | 01/20/04 | 11:40    |         |          | <u> </u> |           | QO    |
| Di-isopropyl ether               | ND                     | 5.00               | ug/l     | 1        | 4010083 | 01/20/04 | 01/22/04 | EPA 8260B |       |
| Ethylbenzene                     | ND                     | 5.00               | "        | **       | **      | "        | **       | n         |       |
| Hexachlorobutadiene              | ND                     | 10.0               | "        | **       | "       | "        | ••       | 11        |       |
| Isopropylbenzene                 | ND                     | 5.00               | **       | "        | n       | **       | 11       | "         |       |
| p-Isopropyltoluene               | ND                     | 5.00               | 11       | **       | **      | "        | **       | "         |       |
| Methylene chloride               | ND                     | 0.641              | "        | . "      | 11      | **       | **       | "         |       |
| Methyl tert-butyl ether          | 1.09                   | 0.381              | "        | "        | "       | 11       |          | 19        |       |
| Naphthalene                      | ND                     | 8.00               | 11       | 11       | 17      | 11       | **       | 11        |       |
| n-Propylbenzene                  | ND                     | 5.00               | "        | 11       | 17      | "        | **       | 17        |       |
| 1,1,2,2-Tetrachloroethane        | ND                     | 0.422              | n        | **       | 11      | n        | n        | Ħ         |       |
| Tetrachloroethene                | 1.64                   | 0.500              | **       | n        | 11      | n        | H        | Ħ         |       |
| Toluene                          | ND                     | 5.00               | **       | 11       | H       | 11       | **       | п         |       |
| 1,2,3-Trichlorobenzene           | ND                     | 10.0               | "        | "        | **      | "        | **       | п         |       |
| 1,2,4-Trichlorobenzene           | ND                     | 10.0               |          |          | н       | "        | "        | H.        |       |
| 1,1,1-Trichloroethane            | 27.0                   | 5.00               | "        | **       | 11      | "        | "        | **        |       |
| 1,1,2-Trichloroethane            | ND                     | 0.347              | n        | n        | "       | **       | "        | et        |       |
| Trichloroethene                  | 50.0                   | 0.500              | 11       | "        | **      | Ħ        | 11       | n         |       |
| Trichlorofluoromethane           | ND                     | 5.00               | **       | "        | H       | "        | **       | 11        |       |
| 1,2,4-Trimethylbenzene           | ND                     | 5.00               | "        | *        | 11      |          | **       | n         |       |
| 1,3,5-Trimethylbenzene           | ND                     | 5.00               | **       | **       | 11      | "        | "        | "         |       |
| Vinyl chloride                   | ND                     | 0.652              | **       | 11       | "       | n        | ••       | n         |       |
| Total Xylenes                    | ND                     | 5.00               | •        | **       | "       | •        | "        | 4         |       |
| Surrogate: Dibromofluoromethans  | ?                      | 78.4 %             | 70-      | 130      | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |                        | 81.8 %             |          | 130      | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |                        | 113 %              |          | 130      | "       | "        | "        | <i>"</i>  |       |
| Surrogate: 4-Bromojluorobenzene  |                        | 91.2 %             |          | 130      | "       | "        | "        | "         |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

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Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed   | Method    | Notes |
|-----------------------------|-------------------------|--------------------|-----------|----------|---------|----------|------------|-----------|-------|
| MW-9 (W401194-05) Water     | Sampled: 01/20/04 00:00 |                    |           |          |         |          | ,          |           | QC    |
|                             |                         | 5.00               |           |          | 4010083 | 01/20/04 | 01/23/04   | EPA 8260B |       |
| Benzene<br>Bromobenzene     | 14.6<br>ND              | 50.0               | ug/l<br>" | 10       | 4010063 | 01/20/04 | 01/23/04   | EFA 8200B |       |
| Bromodichloromethane        | ND<br>ND                | 3.59               | **        | "        |         | **       |            | ,,        |       |
| n-Butylbenzene              | ND                      | 50.0               | "         | **       | H       |          | "          | tt        |       |
| sec-Butylbenzene            | ND<br>ND                | 50.0               | **        | **       | n       | u        | n          | tt        |       |
| tert-Butylbenzene           | ND                      | 50.0               | **        | **       | "       | n        | н          | **        |       |
| Carbon tetrachloride        | ND                      | 5.92               | tt        | **       | 91      | 11       | 11         | .,        |       |
| Chlorobenzene               | ND                      | 50.0               | "         |          | "       | 11       | **         | "         |       |
| Chloroethane                | 122                     | 50.0               | **        | **       | lt .    | "        | "          |           |       |
| Chloroform                  | ND                      | 4.63               | "         | **       | n       | "        | "          | **        |       |
| Chloromethane               | 18.1                    | 9.20               | **        | **       | **      | "        | **         | **        |       |
| 2-Chlorotoluene             | ND                      | 50.0               | "         | **       | 11      | **       | "          | **        |       |
| 4-Chlorotoluene             | ND                      | 50.0               | **        | **       | **      | **       | n          | "         |       |
| Dibromochloromethane        | ND                      | 50.0               | *1        | **       | **      | "        | •          | "         |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 6.29               | 11        | **       |         | **       | "          |           |       |
| 1,2-Dibromoethane           | ND                      | 3.29               | ,,        | "        | H       | "        | "          | **        | •     |
| 1,2-Dichlorobenzene         | ND                      | 50.0               | ,,        | **       | "       | "        | "          | n         |       |
| 1,3-Dichlorobenzene         | ND                      | 50.0               | **        | **       | n       | "        | n          | **        |       |
| 1,4-Dichlorobenzene         | ND                      | 50.0               | **        | "        | **      | **       | n          | **        |       |
| Dichlorodifluoromethane     | ND                      | 50.0               | *1        | **       | 17      | n        | "          | **        |       |
| 1,1-Dichloroethane          | ND                      | 50.0               | **        | 11       |         | "        | "          |           |       |
| 1,2-Dichloroethane          | ND                      | 5.00               | #         | 11       | **      | **       | "          |           |       |
| 1,1-Dichloroethene          | 6.30                    | 5.00               | **        | 11       | **      | "        | "          | "         |       |
| cis-1,2-Dichloroethene      | 432                     | 50.0               | 11        | #1       | "       | "        | "          | 11        |       |
| trans-1,2-Dichloroethene    | ND                      | 50.0               | **        | 11       | "       | "        | "          | 11        |       |
| 1,2-Dichloropropane         | ND                      | 5.00               | "         | "        | **      |          | **         | 11        |       |
| 1,3-Dichloropropane         | ND                      | 50.0               | **        | "        | n       | **       | "          | 17        |       |
| 2,2-Dichloropropane         | ND                      | 50.0               | **        | "        | *       | *        | "          | **        |       |
| Di-isopropyl ether          | ND                      | 50.0               | **        | n        | 17      | It       | "          | **        |       |
| Ethylbenzene                | 829                     | 50.0               | **        | IT       | "       | "        | "          | "         |       |
| Hexachlorobutadiene         | ND                      | 100                | "         | 11       | "       | "        | "          | "         |       |
| Isopropylbenzene            | 52.3                    | 50.0               | н         | "        | **      | "        | "          | "         |       |
| p-Isopropyltoluene          | ND                      | 50.0               | 11        | "        | n       | **       | ıı         | 11        |       |
| Methylene chloride          | ND                      | 6.41               | 11        | "        | **      | n        | "          | ۳.,       |       |
| Methyl tert-butyl ether     | ND                      | 3.81               | 0         | "        | **      | "        | "          | # .       |       |
| Naphthalene                 | ND                      | 80.0               | n         | u .      | n       | **       | "          | n         |       |
| n-Propylbenzene             | ND                      | 50.0               | **        | **       | "       | "        | "          | "         |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 4.22               | 11        | 17       | n       | **       | 11         | 11        |       |
| Tetrachloroethene           | ND                      | 5.00               | **        | **       | 11      | n        | ıı         | **        | •     |
| Toluene                     | 219                     | 50.0               | 11        | 11       | n       | 11       | <b>"</b> . | **        |       |
| 1,2,3-Trichlorobenzene      | ND                      | 100                | 11        | "        | **      | "        | •          |           |       |
| 1,2,4-Trichlorobenzene      | ND                      | 100                | ••        | **       | **      | "        | "          | н         | ,     |
| -,-,-                       |                         | 100                |           |          |         |          |            |           | •     |

Great Lakes Analytical--Oak Creek



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Project: 7-21058

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Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260

### Great Lakes Analytical--Oak Creek

| Analyte                       | Result                  | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| MW-9 (W401194-05) Water       | Sampled: 01/20/04 00:00 | Received:          | 01/20/04 | 11:40    |         |          |          |           | QC    |
| 1,1,1-Trichloroethane         | ND                      | 50.0               | ug/l     | 10       | 4010083 | 01/20/04 | 01/23/04 | EPA 8260B |       |
| 1,1,2-Trichloroethane         | ND                      | 3.47               | **       | "        | "       | 11       | **       | н         |       |
| Trichloroethene               | 168                     | 5.00               | "        | tt.      | **      | "        | "        | rr ·      |       |
| Trichlorofluoromethane        | ND                      | 50.0               | 11       | 11       | 11      | "        | "        | n         |       |
| 1,2,4-Trimethylbenzene        | 863                     | 50.0               | 11       | "        | **      | н        | **       | m         |       |
| 1,3,5-Trimethylbenzene        | 253                     | 50.0               | **       |          | **      | Ħ        | "        | n         |       |
| Vinyl chloride                | 336                     | 6.52               | **       | u u      |         | n        | **       | n         |       |
| Total Xylenes                 | 2440                    | 500                | "        | 100      | "       | · ·      | 01/23/04 |           |       |
| Surrogate: Dibromofluorometh  | ane                     | 93.8 %             | 70-      | -130     | "       | "        | 01/23/04 | "         |       |
| Surrogate: 1,2-Dichloroethane | -d4                     | 92.0 %             | 70-      | -130     | "       | n        | "        | n         |       |
| Surrogate: Toluene-d8         |                         | 110 %              | 70-      | -130     | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenza | ene                     | 103 %              | 70-      | -130     | "       | "        | "        | "         |       |

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Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-----|--------------|-------|
| Batch 4010083 - EPA 5030B (P/T) | ,      |                    |       |                |                  |          |                |     |              |       |
| Blank (4010083-BLK1)            |        |                    |       | Prepared:      | 01/20/04         | Analyzed | : 01/22/04     |     |              |       |
| Benzene                         | ND     | 0.500              | ug/l  |                |                  |          |                |     |              |       |
| Bromobenzene                    | ND     | 5:00               | "     |                |                  |          |                |     |              |       |
| Bromodichloromethane            | ND     | 0.359              | **    |                |                  |          |                |     | ٠            |       |
| n-Butylbenzene                  | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| sec-Butylbenzene                | ND     | 5.00               | **    |                |                  |          |                |     |              |       |
| tert-Butylbenzene               | ND     | 5.00               | 11    |                |                  |          |                |     |              |       |
| Carbon tetrachloride            | ND     | 0.592              | "     |                |                  |          |                |     |              |       |
| Chlorobenzene                   | ND     | 5.00               |       |                |                  |          |                |     |              |       |
| Chloroethane                    | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| Chloroform                      | ND     | 0.463              | "     |                |                  |          |                |     |              |       |
| Chloromethane                   | ND     | 0.920              | n     |                |                  |          |                |     |              |       |
| 2-Chlorotoluene                 | ND     | 5.00               | •     |                |                  |          |                |     |              |       |
| 4-Chlorotoluene                 | ND     | 5.00               | n     |                |                  |          |                |     |              |       |
| Dibromochloromethane            | ND     | 5.00               | 11    |                |                  |          |                |     |              |       |
| 1,2-Dibromo-3-chloropropane     | ND     | 0.629              |       |                |                  |          |                |     |              |       |
| 1,2-Dibromoethane               | ND     | 0.329              | n     |                |                  |          |                |     |              |       |
| 1,2-Dichlorobenzene             | ND     | 5.00               | 11    |                |                  |          |                |     |              |       |
| 1,3-Dichlorobenzene             | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| 1,4-Dichlorobenzene             | ND     | 5.00               | **    |                |                  |          |                |     |              |       |
| Dichlorodifluoromethane         | ND     | 5.00               | 11    |                |                  |          |                |     |              |       |
| 1,1-Dichloroethane              | ND     | 5.00               | "     |                |                  |          |                | •   | •            |       |
| 1,2-Dichloroethane              | ND     | 0.500              | **    |                |                  |          |                |     |              |       |
| 1,1-Dichloroethene              | ND     | 0.500              | "     |                |                  |          |                |     |              |       |
| cis-1,2-Dichloroethene          | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| trans-1,2-Dichloroethene        | ND     | 5.00               | 11    |                |                  |          |                |     |              |       |
| 1,2-Dichloropropane             | ND     | 0.500              | **    |                |                  |          |                |     |              |       |
| 1,3-Dichloropropane             | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| 2,2-Dichloropropane             | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| Di-isopropyl ether              | ND     | 5.00               | **    |                |                  |          |                |     |              |       |
| Ethylbenzene                    | ND     | 5.00               | •     |                |                  |          |                |     |              |       |
| Hexachlorobutadiene             | ND     | 10.0               | n     |                |                  |          |                |     |              |       |
| Isopropylbenzene                | ND     | 5.00               | "     |                |                  |          |                |     |              |       |
| p-Isopropyltoluene              | ND     | 5.00               | **    |                |                  |          |                |     |              |       |
| Methylene chloride              | ND     | 0.641              | "     |                |                  |          |                |     |              |       |
| Methyl tert-butyl ether         | ND     | 0.381              | "     |                |                  |          |                |     |              |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level                          | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-------|---|------------------|----------|----------------|-----|--------------|-------|
| Batch 4010083 - EPA 5030B (P/T)  |        |                    |       |   |                  |          |                |     |              |       |
| Blank (4010083-BLK1)             |        |                    |       | Prepared:                               | 01/20/04         | Analyzed | : 01/22/04     |     |              |       |
| Naphthalene                      | ND     | 8.00               | ug/l  | *************************************** |                  |          |                | •   |              |       |
| n-Propylbenzene                  | ND     | 5.00               | 11    |   |                  |          |                |     |              |       |
| 1,1,2,2-Tetrachloroethane        | ND     | 0.422              | **    |   |                  |          |                |     |              |       |
| Tetrachloroethene                | ND     | 0.500              | **    |   |                  |          |                |     |              |       |
| Toluene                          | ND     | 5.00               | n     |   |                  |          | •              |     |              |       |
| 1,2,3-Trichlorobenzene           | ND     | 10.0               | **    |   |                  |          |                |     |              |       |
| 1,2,4-Trichlorobenzene           | ND     | 10.0               | **    |   |                  |          |                |     |              |       |
| 1,1,1-Trichloroethane            | ND     | 5.00               | **    |   |                  |          |                | •   |              |       |
| 1,1,2-Trichloroethane            | ND     | 0.347              | "     |   |                  |          |                |     |              |       |
| Trichloroethene                  | ND     | 0.500              | "     |   |                  |          |                |     |              |       |
| Trichlorofluoromethane           | ND     | 5.00               | "     |   |                  |          |                |     |              |       |
| 1,2,4-Trimethylbenzene           | ND     | 5.00               | "     |   |                  |          |                |     |              |       |
| 1,3,5-Trimethylbenzene           | ND     | 5.00               | "     |   |                  |          |                |     |              |       |
| Vinyl chloride                   | ND     | 0.652              | **    |   |                  |          |                |     |              |       |
| Total Xylenes                    | ND     | 5.00               | H     |   |                  |          |                |     |              |       |
| Surrogate: Dibromofluoromethane  | 38.9   |                    | "     | 50.0                                    |                  | 77.8     | 70-130         |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 40.3   |                    | "     | 50.0                                    |                  | 80.6     | 70-130         |     |              | • .   |
| Surrogate: Toluene-d8            | 56.8   |                    | "     | 50.0                                    |                  | 114      | 70-130         |     |              |       |
| Surrogate: 4-Bromofluorobenzene  | 45.7   |                    | "     | 50.0                                    |                  | 91.4     | 70-130         |     |              |       |
| LCS (4010083-BS1)                |        |                    |       | Prepared:                               | 01/20/04         | Analyzed | : 01/22/04     |     |              |       |
| Benzene                          | 10.5   | 0.500              | ug/l  | 10.0                                    |                  | 105      | 70-130         |     |              |       |
| Bromobenzene                     | 9.61   | 5.00               | "     | 10.0                                    |                  | 96.1     | 70-130         |     |              |       |
| Bromodichloromethane             | 10.2   | 0.359              | "     | 10.0                                    |                  | 102      | 70-130         |     |              |       |
| n-Butylbenzene                   | 9.82   | 5.00               | **    | 10.0                                    |                  | 98.2     | 70-130         |     |              |       |
| sec-Butylbenzene                 | 8.96   | 5.00               | "     | 10.0                                    |                  | 89.6     | 70-130         |     |              |       |
| ert-Butylbenzene                 | 9.14   | 5.00               | **    | 10.0                                    |                  | 91.4     | 70-130         |     |              |       |
| Carbon tetrachloride             | 12.1   | 0.592              | n     | 10.0                                    |                  | 121      | 70-130         |     |              |       |
| Chlorobenzene                    | 9.18   | 5.00               | H     | 10.0                                    |                  | 91.8     | 70-130         |     | ,            | •     |
| Chloroethane                     | 7.87   | 5.00               | *     | 10.0                                    |                  | 78.7     | 70-130         |     |              |       |
| Chloroform                       | 9.10   | 0.463              | **    | 10.0                                    |                  | 91.0     | 70-130         |     |              |       |
| Chloromethane                    | 7.93   | 0.920              | n     | 10.0                                    |                  | 79.3     | 70-130         |     |              |       |
| 2-Chlorotoluene                  | 9.26   | 5.00               | **    | 10.0                                    |                  | 92.6     | 70-130         |     | •            |       |
| 1-Chlorotoluene                  | 9.27   | 5.00               | "     | 10.0                                    |                  | 92.7     | 70-130         |     |              |       |
| Dibromochloromethane             | 10.0   | 5.00               | "     | 10.0                                    |                  | 100      | 70-130         |     | . '          |       |
| 1,2-Dibromo 3-chloropropane      | 9.61   | 0.629              | **    | 10.0                                    |                  | 96.1     | 70-130         |     |              |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|-----------------------|----------------|-----|--------------|-------|
| Batch 4010083 - EPA 5030B (P/T) |        |                    |       |                |                       |                |     |              |       |
| LCS (4010083-BS1)               |        |                    |       | Prepared:      | 01/20/04 Analyzed     | : 01/22/04     |     |              |       |
| 1,2-Dibromoethane               | 9.09   | 0.329              | ug/l  | 10.0           | 90.9                  | 70-130         |     | <u> </u>     |       |
| 1,2-Dichlorobenzene             | 9.52   | 5.00               | 11    | 10.0           | 95.2                  | 70-130         |     |              |       |
| 1,3-Dichlorobenzene             | 9.32   | 5.00               | "     | 10.0           | 93.2                  | 70-130         |     |              |       |
| 1,4-Dichlorobenzene             | 8.97   | 5.00               | "     | 10.0           | 89.7                  | 70-130         |     |              |       |
| Dichlorodifluoromethane         | 7.19   | 5.00               | 11    | 10.0           | 71.9                  | 70-130         |     | •            |       |
| 1,1-Dichloroethane              | 8.79   | 5.00               | **    | 10.0           | 87.9                  | 70-130         |     |              |       |
| 1,2-Dichloroethane              | 8.80   | 0.500              | 11    | 10.0           | 88.0                  | 70-130         |     |              |       |
| 1,1-Dichloroethene              | 8.26   | 0.500              | 11    | 10.0           | 82.6                  | 70-130         |     |              |       |
| cis-1,2-Dichloroethene          | 9.31   | 5.00               | •     | 10.0           | 93.1                  | 70-130         |     |              |       |
| trans-1,2-Dichloroethene        | 8.84   | 5.00               | "     | 10:0           | 88.4                  | 70-130         |     |              |       |
| 1,2-Dichloropropane             | 9.77   | 0.500              | **    | 10.0           | 97.7                  | 70-130         |     |              |       |
| 1,3-Dichloropropane             | 9.63   | 5.00               | Ħ     | 10.0           | 96.3                  | 70-130         |     |              |       |
| 2,2-Dichloropropane             | 9.25   | 5.00               | **    | 10.0           | 92.5                  | 70-130         |     |              |       |
| Di-isopropyl ether              | 8.27   | 5.00               | 11    | 10.0           | 82.7                  | 70-130         |     |              |       |
| Ethylbenzene                    | 8.95   | 5.00               | **    | 10.0           | 89.5                  | 70-130         |     |              |       |
| Hexachlorobutadiene             | 10.0   | 10.0               | **    | 10.0           | 100                   | 70-130         |     |              |       |
| Isopropylbenzene                | 9.81   | 5.00               | "     | 10.0           | 98.1                  | 70-130         |     |              |       |
| p-Isopropyltoluene              | 9.37   | 5.00               | "     | 10.0           | 93.7                  | 70-130         |     |              |       |
| Methylene chloride              | 8.46   | 0.641              | "     | 10.0           | 84.6                  | 70-130         |     |              |       |
| Methyl tert-butyl ether         | 8.40   | 0.381              | "     | 10.0           | 84.0                  | 70-130         |     |              |       |
| Naphthalene                     | 8.99   | 8.00               | "     | 10.0           | 89.9                  | 70-130         |     |              |       |
| n-Propylbenzene                 | 9.24   | 5.00               | **    | 10.0           | 92.4                  | 70-130         |     |              |       |
| 1,1,2,2-Tetrachloroethane       | 9.03   | 0.422              | "     | 10.0           | 90.3                  | 70-130         |     |              |       |
| Tetrachloroethene               | 9.52   | 0.500              | "     | 10.0           | 95.2                  | 70-130         |     |              |       |
| Toluene                         | 9.15   | 5.00               | **    | 10.0           | 91.5                  | 70-130         |     |              |       |
| 1,2,3-Trichlorobenzene          | 9.81   | 9.81               | "     | 10.0           | 98.1                  | 70-130         |     |              |       |
| 1,2,4-Trichlorobenzene          | 10.1   | 10.0               | "     | 10.0           | 101                   | 70-130         |     |              |       |
| 1,1,1-Trichloroethane           | 9.79   | 5.00               | **    | 10.0           | 97.9                  | 70-130         |     |              |       |
| 1,1,2-Trichloroethane           | 9.38   | 0.347              | "     | 10.0           | 93.8                  | 70-130         |     |              |       |
| Trichloroethene                 | 9.29   | 0.500              | "     | 10.0           | 92.9                  | 70-130         |     |              |       |
| Trichlorofluoromethane          | 9.44   | 5.00               | n     | 10.0           | 94.4                  | 70-130         |     |              |       |
| 1,2,4-Trimethylbenzene          | 9.12   | 5.00               | 11    | 10.0           | 91.2                  | 70-130         |     |              |       |
| 1,3,5-Trimethylbenzene          | 9.03   | 5.00               | "     | 10.0           | 90.3                  | 70-130         |     |              |       |
| Vinyl chloride                  | 11.6   | 0.652              | "     | 10.0           | 116                   | 70-130         |     |              |       |
| Total Xylenes                   | 28.7   | 5.00               | **    | 30.0           | 95.7                  | 70-130         |     |              |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha, WI 53189

Project: 7-21058

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

### WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical-Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD | RPD<br>Limit | Notes                                 |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-----|--------------|---------------------------------------|
| Batch 4010083 - EPA 5030B (P/T)  |        |                    |       |                |                  |          |                |     |              |                                       |
| LCS (4010083-BS1)                |        |                    |       | Prepared:      | 01/20/04         | Analyzed | : 01/22/04     |     |              |                                       |
| Surrogate! Dibromofluoromethane  | 50.9   |                    | ug/l  | 50.0           |                  | 102      | 70-130         |     |              | · · · · · · · · · · · · · · · · · · · |
| Surrogate: 1,2-Dichloroethane-d4 | 52.2   |                    | "     | 50.0           |                  | 104      | 70-130         |     |              |                                       |
| Surrogate: Toluene-d8            | 53.5   |                    | "     | 50.0           |                  | 107      | 70-130         |     |              |                                       |
| Surrogate: 4-Bromosluorobenzene  | 47.0   |                    | "     | 50.0           |                  | 94.0     | 70-130         |     |              | •                                     |
| Matrix Spike (4010083-MS1)       | So     | urce: W4011.       | 34-01 | Prepared:      | 01/20/04         | Analyzed | : 01/22/04     |     |              |                                       |
| Benzene                          | 20.0   | 0.500              | ug/l  | 20.0           | ND               | 100      | 70-130         |     |              |                                       |
| Bromobenzene                     | 20.9   | 5.00               | "     | 20.0           | ND               | 104      | 70-130         |     |              |                                       |
| Bromodichloromethane             | 22.5   | 0.359              | **    | 20.0           | ND               | 112      | 70-130         |     |              |                                       |
| n-Butylbenzene                   | 19.6   | 5.00               | 11    | 20.0           | ND               | 98.0     | 70-130         |     |              | · . ·                                 |
| sec-Butylbenzene                 | 20.2   | 5.00               | "     | 20.0           | ND               | 101      | 70-130         |     |              |                                       |
| tert-Butylbenzene                | 20.7   | 5.00               | "     | 20.0           | ND               | 104      | 70-130         |     |              |                                       |
| Carbon tetrachloride             | 18.0   | 0.592              | "     | 20.0           | ND               | 90.0     | 70-130         |     |              |                                       |
| Chlorobenzene                    | 20.0   | 5.00               |       | 20.0           | ND               | 100      | 70-130         |     |              |                                       |
| Chloroethane                     | 15.3   | 5.00               | · ·   | 20.0           | ND               | 76.5     | 70-130         |     |              |                                       |
| Chloroform                       | 19.1   | 0.463              | n     | 20.0           | ND               | 95.5     | 70-130         |     |              |                                       |
| Chloromethane                    | 11.9   | 0.920              | 11    | 20.0           | ND               | 59.5     | 70-130         |     |              | L                                     |
| 2-Chlorotoluene                  | 20.2   | 5.00               | 17    | 20.0           | ND               | 101      | 70-130         |     |              | •                                     |
| 4-Chlorotoluene                  | 20.5   | 5.00               | 11    | 20.0           | ND               | 102      | 70-130         |     |              |                                       |
| Dibromochloromethane             | 21.9   | 5.00               | "     | 20.0           | ND               | 110      | 70-130         |     |              |                                       |
| 1,2-Dibromo-3-chloropropane      | 22.4   | 0.629              | n     | 20.0           | ND               | 112      | 70-130         |     |              |                                       |
| 1,2-Dibromoethane                | 20.1   | 0.329              | 11    | 20.0           | ND               | 100      | 70-130         |     |              |                                       |
| 1,2-Dichlorobenzene              | 21.7   | 5.00               | **    | 20.0           | ND               | 108      | 70-130         |     |              |                                       |
| 1,3-Dichlorobenzene              | 20.3   | 5.00               | n     | 20.0           | ND               | 102      | 70-130         |     |              |                                       |
| 1,4-Dichlorobenzene              | 19.8   | 5.00               | "     | 20.0           | ND               | 99.0     | 70-130         |     |              |                                       |
| Dichlorodifluoromethane          | 7.12   | 5.00               | **    | 20.0           | ND               | 35.6     | 70-130         |     |              | · L                                   |
| 1,1-Dichloroethane               | 18.8   | 5.00               | 11    | 20.0           | ND               | 94.0     | 70-130         |     |              |                                       |
| 1,2-Dichloroethane               | 17.8   | 0.500              | 11    | 20.0           | ND               | 89.0     | 70-130         |     |              |                                       |
| 1,1-Dichloroethene               | 17.7   | 0.500              | **    | 20.0           | ND               | 88.5     | 70-130         |     |              |                                       |
| cis-1,2-Dichloroethene           | 20.2   | 5.00               | "     | 20.0           | ND               | 101      | 70-130         |     |              |                                       |
| trans-1,2-Dichloroethene         | 18.6   | 5.00               | "     | 20.0           | ND               | 93.0     | 70-130         |     |              |                                       |
| 1,2-Dichloropropane              | 22.3   | 0.500              | **    | 20.0           | ND               | 112      | 70-130         |     |              |                                       |
| 1,3-Dichloropropane              | 20.1   | 5.00               | •     | 20.0           | ND               | 100      | 70-130         |     |              |                                       |
| 2,2-Dichloropropane              | 17.6   | 5.00               |       | 20.0           | ND               | 88.0     | 70-130         |     |              |                                       |

Great Lakes Analytical--Oak Creek

17.8

19.7

5.00

5.00

20.0

20.0

ND

ND

Di-isopropyl ether

\_Ethylbenzene

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

70-130

70-130

89.0

98.5

Andrea Stathas, Project Manager



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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|--------------|-------|
| Batch 4010083 - EPA 5030B (P/T)  |        |                    |       |                |                  |          |                |      |              |       |
| Matrix Spike (4010083-MS1)       | So     | urce: W40113       | 4-01  | Prepared:      | 01/20/04         | Analyzed | : 01/22/04     |      |              |       |
| Hexachlorobutadiene              | 20.8   | 10.0               | ug/l  | 20.0           | ND               | 104      | 70-130         |      |              |       |
| Isopropylbenzene                 | 17.7   | 5.00               | Ħ     | 20.0           | ND               | 88.5     | 70-130         |      |              |       |
| p-Isopropyltoluene               | 20.0   | 5.00               | 11    | 20.0           | ND               | 100      | 70-130         |      |              |       |
| Methylene chloride               | 19.3   | 0.641              | **    | 20.0           | ND               | 96.5     | 70-130         |      |              |       |
| Methyl tert-butyl ether          | 19.2   | 0.381              | 11    | 20.0           | ND               | 96.0     | 70-130         |      |              |       |
| Naphthalene                      | 22.1   | 8.00               | . "   | 20.0           | ND               | 110      | 70-130         |      |              |       |
| n-Propylbenzene                  | 20.5   | 5.00               | **    | 20.0           | ND               | 102      | 70-130         |      |              |       |
| 1,1,2,2-TetrachIoroethane        | 19.8   | 0.422              | **    | 20.0           | ND               | 99.0     | 70-130         |      |              |       |
| Tetrachloroethene                | 18.8   | 0.500              | Ħ     | 20.0           | ND               | 94.0     | 70-130         |      |              |       |
| Toluene                          | 19.2   | 5.00               | и :   | 20.0           | ND               | 96.0     | 70-130         |      |              |       |
| 1,2,3-Trichlorobenzene           | 22.3   | 10.0               | H     | 20.0           | ND               | 112      | 70-130         | •    |              |       |
| 1,2,4-Trichlorobenzene           | 21.3   | 10.0               | "     | 20.0           | ND               | 106      | 70-130         |      |              |       |
| 1,1,1-Trichloroethane            | 19.7   | 5.00               | "     | 20.0           | ND               | 98.5     | 70-130         |      | •            |       |
| 1,1,2-Trichloroethane            | 21.4   | 0.347              | "     | 20.0           | ND               | 107      | 70-130         |      |              |       |
| Trichloroethene                  | 21.2   | 0.500              | "     | 20.0           | ND               | 106      | 70-130         |      |              |       |
| Trichlorofluoromethane           | 18.2   | 5.00               | n     | 20.0           | ND               | 91.0     | 70-130         |      |              | •     |
| 1,2,4-Trimethylbenzene           | 20.8   | 5.00               | "     | 20.0           | ND               | 104      | 70-130         |      | *            |       |
| 1,3,5-Trimethylbenzene           | 20.0   | 5.00               | 11    | 20.0           | ND               | 100      | 70-130         |      |              |       |
| Vinyl chloride                   | 16.6   | 0.652              | 11    | 20.0           | ND               | 83.0     | 70-130         |      |              |       |
| Total Xylenes                    | 62.1   | 5.00               | **    | 60.0           | ND               | 104      | 70-130         |      |              |       |
| Surrogate: Dibromofluoromethane  | 47.3   |                    | "     | 50.0           |                  | 94.6     | 70-130         |      |              |       |
| Surrogate: 1,2-Dichloroethane-d4 | 46.6   |                    | "     | 50.0           |                  | 93.2     | 70-130         |      |              |       |
| Surrogate: Toluene-d8            | 51.8   |                    | "     | 50.0           |                  | 104      | 70-130         |      |              |       |
| Surrogate: 4-Bromofluorobenzene  | 46.1   |                    | "     | 50.0           |                  | 92.2     | 70-130         |      |              |       |
| Matrix Spike Dup (4010083-MSD1)  | Sou    | urce: W40113       | 4-01  | Prepared:      | 01/20/04         | Analyzed | : 01/22/04     |      |              |       |
| Benzene                          | 24.6   | 0.500              | ug/l  | 20.0           | ND               | 123      | 70-130         | 20.6 | 20           | H     |
| Bromobenzene                     | 22.0   | 5.00               | **    | 20.0           | ND               | 110      | 70-130         | 5.13 | 20           |       |
| Bromodichloromethane             | 24.1   | 0.359              | 11    | 20.0           | ND               | 120      | 70-130         | 6.87 | 20           | ÷     |
| n-Butylbenzene                   | 20.5   | 5.00               | "     | 20.0           | ND               | 102      | 70-130         | 4.49 | 20           |       |
| ec-Butylbenzene                  | 21.4   | 5.00               | 11    | 20.0           | ND               | 107      | 70-130         | 5.77 | 20           |       |
| ert-Butylbenzene                 | 22.1   | 5.00               | Ħ     | 20.0           | ND               | 110      | 70-130         | 6.54 | 20           |       |
| Carbon tetrachloride             | 26.1   | 0.592              | "     | 20.0           | ND               | 130      | 70-130         | 36.7 | 20           | ŀ     |
| Chlorobenzene                    | 21.1   | 5.00               | "     | 20.0           | ND               | 106      | 70-130         | 5.35 | 20           |       |
| Chloroethane                     | 17.8   | 5.00               | **    | 20.0           | ND               | 89.0     | 70-130         | 15.1 | 20           |       |
| Chloroform'                      | 22.2   | 0.463              | "     | 20.0           | ND               | 111      | 70-130         | 15.0 | 20 .         |       |

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

**Reported:** 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Matrix Spike Dup (4010083-MSD1)  | Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|--|---------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|--------------|-------|
| Chloromethane  | Batch 4010083 - EPA 5030B (P/T) |        |                    |       |                |                  |          |                |      |              |       |
| 2-Chlorotoluene  | Matrix Spike Dup (4010083-MSD1) | So     | urce: W4011        | 34-01 | Prepared:      | 01/20/04         | Analyzed | : 01/22/04     |      |              |       |
| 4-Chlorotoluene  | Chloromethane                   | 14.2   | 0.920              | ug/l  | 20.0           | ND               | 71.0     | 70-130         | 17.6 | 20           |       |
| Dibromochloromethane   22.6   5.00   "   20.0   ND   113   70-130   3.15   20   20   20   20   20   20   20   2  | 2-Chlorotoluene                 | 21.8   | 5.00               | "     | 20.0           | ND               | 109      | 70-130         | 7.62 | 20           |       |
| 1,2-Dibromo-3-chloropropane 24.2 0,629 " 20.0 ND 121 70-130 7.73 20 1.2-Dibromoethane 20.8 0,329 " 20.0 ND 104 70-130 3,42 20 1.2-Dibromoethane 22.4 5.00 " 20.0 ND 112 70-130 3,17 20 1.2-Dichlorobenzene 21.2 5.00 " 20.0 ND 112 70-130 3,17 20 1.3-Dichlorobenzene 21.2 5.00 " 20.0 ND 106 70-130 4,34 20 1.4-Dichlorobenzene 20.3 5.00 " 20.0 ND 106 70-130 4,34 20 1.4-Dichlorobenzene 20.3 5.00 " 20.0 ND 106 70-130 4,34 20 1.4-Dichlorobenzene 20.3 5.00 " 20.0 ND 106 70-130 4,34 20 1.4-Dichlorobenzene 20.1 5.00 " 20.0 ND 106 70-130 4,34 20 1.4-Dichlorobenzene 20.1 5.00 " 20.0 ND 108 70-130 14.3 20 1.4-Dichlorobenzene 20.1 5.00 " 20.0 ND 108 70-130 14.3 20 1.4-Dichlorobenzene 20.4 0,500 " 20.0 ND 99.5 70-130 11.1 20 1.4-Dichlorobenzene 20.4 0,500 " 20.0 ND 102 70-130 11.2 20 1.4-Dichlorobenzene 20.8 5.00 " 20.0 ND 105 70-130 11.2 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 104 70-130 11.2 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 104 70-130 13.0 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 104 70-130 13.0 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 106 70-130 13.0 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 106 70-130 13.6 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 106 70-130 13.6 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 106 70-130 13.6 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 106 70-130 13.6 20 1.4-Dichloropropane 23.9 0,500 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23.9 5.00 " 20.0 ND 104 70-130 13.6 20 1.4-Dichloropropane 23 | 4-Chlorotoluene                 | 21.6   | 5.00               | "     | 20.0           | ND               | 108      | 70-130         | 5.23 | 20           |       |
| 1,2-Dichloromoethane   20.8   0.329   "   20.0   ND   104   70-130   3.42   20   1,2-Dichlorobenzene   21.4   5.00   "   20.0   ND   112   70-130   3.17   20   1,3-Dichlorobenzene   21.2   5.00   "   20.0   ND   106   70-130   4.34   20   1,3-Dichlorobenzene   20.3   5.00   "   20.0   ND   106   70-130   4.34   20   1,3-Dichlorobenzene   20.3   5.00   "   20.0   ND   102   70-130   2.11   20   1,4-Dichlorobenzene   21.7   5.00   "   20.0   ND   108   70-130   21.1   20   1,4-Dichlorocethane   21.7   5.00   "   20.0   ND   108   70-130   14.3   20   1,4-Dichlorocethane   21.7   5.00   "   20.0   ND   108   70-130   14.3   20   1,4-Dichlorocethane   21.7   5.00   "   20.0   ND   108   70-130   14.2   20   1,4-Dichlorocethane   20.4   0.500   "   20.0   ND   102   70-130   14.2   20   1,4-Dichlorocethane   23.0   5.00   "   20.0   ND   102   70-130   14.2   20   1,4-Dichlorocethane   23.0   5.00   "   20.0   ND   104   70-130   13.0   20   1,4-Dichlorocethane   23.0   5.00   "   20.0   ND   104   70-130   13.0   20   1,4-Dichlorocethane   23.9   5.00   "   20.0   ND   104   70-130   13.0   20   1,4-Dichloropropane   23.3   5.00   "   20.0   ND   106   70-130   5.80   20   1,3-Dichloropropane   21.3   5.00   "   20.0   ND   106   70-130   5.80   20   2,2-Dichloropropane   21.3   5.00   "   20.0   ND   106   70-130   5.91   20   2,2-Dichloropropane   20.4   5.00   "   20.0   ND   104   70-130   5.91   20   2,2-Dichloropropane   20.4   5.00   "   20.0   ND   104   70-130   5.91   20   2,2-Dichloropropane   20.4   5.00   "   20.0   ND   104   70-130   5.91   20   2,2-Dichloropropane   20.4   5.00   "   20.0   ND   106   70-130   5.91   20   20   2,2-Dichloropropane   20.4   5.00   "   20.0   ND   106   70-130   5.91   20   20   20   20   20   20   20   2  | Dibromochloromethane            | 22.6   | 5.00               | "     | 20.0           | ND               | 113      | 70-130         | 3.15 | 20           |       |
| 1,2-Dichlorobenzene  | 1,2-Dibromo-3-chloropropane     | 24.2   | 0.629              | "     | 20.0           | ND               | 121      | 70-130         | 7.73 | 20           |       |
| 1,3-Dichlorobenzene 21.2 5.00 " 20.0 ND 106 70-130 4.34 20 1.4-Dichlorobenzene 20.3 5.00 " 20.0 ND 102 70-130 2.49 20 Dichlorodifluoromethane 8.80 5.00 " 20.0 ND 44.0 70-130 2.49 20 LH 1,1-Dichlorocthane 21.7 5.00 " 20.0 ND 44.0 70-130 2.11 20 LH 1,1-Dichlorocthane 119.9 0.500 " 20.0 ND 99.5 70-130 11.1 20 11.1-Dichlorocthane 119.9 0.500 " 20.0 ND 99.5 70-130 11.1 20 11.1-Dichlorocthane 20.4 0.500 " 20.0 ND 102 70-130 14.2 20 11.1-Dichlorocthane 20.4 0.500 " 20.0 ND 102 70-130 11.1 20 11.1-Dichlorocthane 20.8 5.00 " 20.0 ND 115 70-130 11.2 20 11.1-Dichlorocthane 20.8 5.00 " 20.0 ND 115 70-130 11.2 20 11.1-Dichloropropane 20.8 5.00 " 20.0 ND 104 70-130 11.2 20 11.2-Dichloropropane 21.3 5.00 " 20.0 ND 106 70-130 5.80 20 11.3-Dichloropropane 21.3 5.00 " 20.0 ND 106 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 106 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 6.51 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 5.80 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.4 5.00 " 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 70-130 5.91 20 11.3-Dichloropropane 20.0 ND 104 7 | 1,2-Dibromoethane               | 20.8   | 0.329              | "     | 20.0           | ND               | 104      | 70-130         | 3.42 | 20           |       |
| 1,4-Dichlorobenzene   20.3   5.00   "   20.0   ND   102   70-130   2.49   20   20   20   20   20   20   20   2   | 1,2-Dichlorobenzene             | 22.4   | 5.00               | "     | 20.0           | ND               | 112      | 70-130         | 3.17 | 20           |       |
| Dichlorodifiluoromethane   8.80   5.00   "   20.0   ND   44.0   70-130   21.1   20   LH     1,1-Dichloroethane   21.7   5.00   "   20.0   ND   108   70-130   14.3   20     1,2-Dichloroethane   19.9   0.500   "   20.0   ND   99.5   70-130   11.1   20     1,1-Dichloroethane   20.4   0.500   "   20.0   ND   102   70-130   14.2   20     1,1-Dichloroethene   23.0   5.00   "   20.0   ND   115   70-130   13.0   20     1,1-Dichloroethene   23.0   5.00   "   20.0   ND   104   70-130   11.2   20     1,2-Dichloroethene   23.9   0.500   "   20.0   ND   104   70-130   11.2   20     1,2-Dichloropapane   23.3   5.00   "   20.0   ND   104   70-130   6.93   20     1,2-Dichloropapane   21.3   5.00   "   20.0   ND   106   70-130   5.80   20     1,3-Dichloropapane   20.4   5.00   "   20.0   ND   102   70-130   13.6   20     2,2-Dichloroppane   20.4   5.00   "   20.0   ND   102   70-130   13.6   20     2,2-Dichloroppane   20.4   5.00   "   20.0   ND   102   70-130   13.6   20     Elthylbenzene   20.9   5.00   "   20.0   ND   104   70-130   5.91   20     Hexachlorobutadiene   22.2   10.0   "   20.0   ND   111   70-130   6.51   20     Elthylbenzene   18.2   5.00   "   20.0   ND   105   70-130   4.88   20     P-Isopropylbenzene   21.5   5.00   "   20.0   ND   108   70-130   11.7   20     Methyl tert-butyl ether   21.5   5.381   "   20.0   ND   108   70-130   7.41   20     n-Propylbenzene   21.5   5.00   "   20.0   ND   119   70-130   5.41   20     n-Propylbenzene   21.5   5.00   "   20.0   ND   108   70-130   7.41   20     n-Propylbenzene   21.5   5.00   "   20.0   ND   104   70-130   5.41   20     n-Propylbenzene   21.5   5.00   "   20.0   ND   104   70-130   5.41   20     n-Propylbenzene   19.8   0.500   "   20.0   ND   106   70-130   0.47   20     n-Propylbenzene   21.4   10.0   "   20.0   ND   106   70-130   0.47   20     n-Propylbenzene   22.4   10.0   "   20.0   ND   106   70-130   0.47   20     n-Propylbenzene   22.4   10.0   "   20.0   ND   106   70-130   0.47   20     n-Propylbenzene   22.4   10.0   "   20.0   ND   106   70   | 1,3-Dichlorobenzene             | 21.2   | 5.00               | 11    | 20.0           | ND               | 106      | 70-130         | 4.34 | 20           |       |
| 1,1-Dichloroethane   | 1,4-Dichlorobenzene             | 20.3   | 5.00               | 11    | 20.0           | ND               | 102      | 70-130         | 2.49 | 20           |       |
| 1,2-Dichloroethane 19,9 0,500 " 20,0 ND 99,5 70-130 11.1 20 1,1-Dichloroethene 20,4 0,500 " 20,0 ND 102 70-130 14.2 20 cis-1,2-Dichloroethene 23,0 5,00 " 20,0 ND 115 70-130 13.0 20 trans-1,2-Dichloroethene 23,0 5,00 " 20,0 ND 115 70-130 13.0 20 trans-1,2-Dichloroethene 23,9 0,500 " 20,0 ND 104 70-130 11.2 20 1,2-Dichloropropane 23,9 0,500 " 20,0 ND 106 70-130 6.93 20 1,2-Dichloropropane 21,3 5,00 " 20,0 ND 106 70-130 5.80 20 2,2-Dichloropropane 20,4 5,00 " 20,0 ND 102 70-130 14.7 20 Di-isopropyl ether 20,4 5,00 " 20,0 ND 102 70-130 13.6 20 Ethylbenzene 20,9 5,00 " 20,0 ND 102 70-130 13.6 20 Ethylbenzene 20,9 5,00 " 20,0 ND 102 70-130 13.6 20 Ethylbenzene 18,2 5,00 " 20,0 ND 111 70-130 6.51 20 Isopropylbenzene 18,2 5,00 " 20,0 ND 111 70-130 6.51 20 Esperpylbenzene 21,0 5,00 " 20,0 ND 111 70-130 6.51 20 Esperpylbenzene 21,0 5,00 " 20,0 ND 108 70-130 11.7 20 Methyl tert-butyl ether 21,0 5,00 " 20,0 ND 108 70-130 11.7 20 Methyl tert-butyl ether 21,5 0,381 " 20,0 ND 108 70-130 11.3 20 Naphthalene 23,8 8,00 " 20,0 ND 108 70-130 11.3 20 Naphthalene 23,8 8,00 " 20,0 ND 108 70-130 11.3 20 Naphthalene 23,8 8,00 " 20,0 ND 108 70-130 11.3 20 Naphthalene 23,8 8,00 " 20,0 ND 108 70-130 11.3 20 Naphthalene 23,8 8,00 " 20,0 ND 108 70-130 11.3 20 Naphthalene 24,4 10,0 " 20,0 ND 104 70-130 5.18 20 Tetrachloroethene 29,9 5,00 " 20,0 ND 104 70-130 5.18 20 Tetrachloroethene 20,9 5,00 " 20,0 ND 104 70-130 5.18 20 Tetrachloroethene 20,9 5,00 " 20,0 ND 104 70-130 5.18 20 Tetrachloroethene 20,9 5,00 " 20,0 ND 104 70-130 6.33 20   | Dichlorodifluoromethane         | 8.80   | 5.00               | 11    | 20.0           | ND               | 44.0     | 70-130         | 21.1 | 20           | LH    |
| 1,1-Dichloroethene       20.4       0.500       "       20.0       ND       102       70-130       14.2       20         cis-1,2-Dichloroethene       23.0       5.00       "       20.0       ND       115       70-130       13.0       20         trans-1,2-Dichloroethene       20.8       5.00       "       20.0       ND       104       70-130       11.2       20         1,2-Dichloropropane       23.9       0.500       "       20.0       ND       106       70-130       6.93       20         1,3-Dichloropropane       21.3       5.00       "       20.0       ND       106       70-130       6.93       20         2,2-Dichloropropane       20.4       5.00       "       20.0       ND       102       70-130       14.7       20         2,2-Dichloropropane       20.4       5.00       "       20.0       ND       102       70-130       13.6       20         2,2-Dichloropropane       20.4       5.00       "       20.0       ND       102       70-130       13.6       20         Di-isopropyl ether       20.0       ND       102       70-130       13.6       20       20       ND   | 1,1-Dichloroethane              | 21.7   | 5.00               | "     | 20.0           | ND               | 108      | 70-130         | 14.3 | 20           |       |
| 23.0   5.00   "   20.0   ND   115   70-130   13.0   20   12.2     | 1,2-Dichloroethane              | 19.9   | 0.500              | 11    | 20.0           | ND               | 99.5     | 70-130         | 11.1 | 20           |       |
| trans-1,2-Dichloroethene 20.8 5.00 " 20.0 ND 104 70-130 11.2 20 1,2-Dichloropropane 23.9 0.500 " 20.0 ND 120 70-130 6.93 20 1,3-Dichloropropane 21.3 5.00 " 20.0 ND 106 70-130 5.80 20 2,2-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 11.7 20 Di-isopropyl ether 20.4 5.00 " 20.0 ND 102 70-130 13.6 20 Ethylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.91 20 Hexachlorobutadiene 22.2 10.0 " 20.0 ND 111 70-130 6.51 20 Horopylbenzene 18.2 5.00 " 20.0 ND 111 70-130 6.51 20 Hexachlorobutadiene 21.7 0.641 " 20.0 ND 105 70-130 13.6 20 Hexhyltene chloride 21.7 0.641 " 20.0 ND 105 70-130 11.3 20 NB 11.1 20 NB 11.1 70-130 6.51 20 NB 11.1 70-130 8.48 20 N | 1,1-Dichloroethene              | 20.4   | 0.500              | "     | 20.0           | ND               | 102      | 70-130         | 14.2 | 20           |       |
| 1,2-Dichloropropane       23.9       0.500       "       20.0       ND       120       70-130       6.93       20         1,3-Dichloropropane       21.3       5.00       "       20.0       ND       106       70-130       5.80       20         2,2-Dichloropropane       20.4       5.00       "       20.0       ND       102       70-130       14.7       20         Di-isopropyl ether       20.4       5.00       "       20.0       ND       102       70-130       13.6       20         Ethylbenzene       20.9       5.00       "       20.0       ND       104       70-130       5.91       20         Hexachlorobutadiene       22.2       10.0       "       20.0       ND       111       70-130       6.51       20         Isopropylbenzene       18.2       5.00       "       20.0       ND       91.0       70-130       2.79       20         Isopropylbenzene       21.0       5.00       "       20.0       ND       105       70-130       4.88       20         Methyle tert-butyl ether       21.5       0.381       "       20.0       ND       108       70-130       11.3       20 <td>cis-1,2-Dichloroethene</td> <td>23.0</td> <td>5.00</td> <td>**</td> <td>20.0</td> <td>ND</td> <td>115</td> <td>70-130</td> <td>13.0</td> <td>20</td> <td></td>  | cis-1,2-Dichloroethene          | 23.0   | 5.00               | **    | 20.0           | ND               | 115      | 70-130         | 13.0 | 20           |       |
| 1,3-Dichloropropane 21.3 5.00 " 20.0 ND 106 70-130 5.80 20 20,2-Dichloropropane 20.4 5.00 " 20.0 ND 102 70-130 14.7 20 Di-isopropyl ether 20.4 5.00 " 20.0 ND 102 70-130 13.6 20 Ethylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.91 20 Hexachlorobutadiene 22.2 10.0 " 20.0 ND 111 70-130 6.51 20 Isopropylenzene 18.2 5.00 " 20.0 ND 111 70-130 6.51 20 Isopropylenzene 18.2 5.00 " 20.0 ND 115 70-130 2.79 20 Isopropyltoluene 21.0 5.00 " 20.0 ND 105 70-130 11.7 20 Methylene chloride 21.7 0.641 " 20.0 ND 108 70-130 11.7 20 Methyl tert-butyl ether 21.5 0.381 " 20.0 ND 108 70-130 11.3 20 Naphthalene 23.8 8.00 " 20.0 ND 119 70-130 7.41 20 In-Propylbenzene 21.5 5.00 " 20.0 ND 108 70-130 11.3 20 In-Propylbenzene 21.5 5.00 " 20.0 ND 108 70-130 11.3 20 In-Propylbenzene 21.5 5.00 " 20.0 ND 108 70-130 5.41 20 In-Propylbenzene 20.9 0.422 " 20.0 ND 108 70-130 5.41 20 In-Propylbenzene 20.9 0.422 " 20.0 ND 108 70-130 5.41 20 In-Propylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.41 20 In-Propylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.41 20 In-Propylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.41 20 In-Propylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.18 20 In-Propylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.18 20 In-Propylbenzene 20.9 5.00 " 20.0 ND 104 70-130 6.47 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 104 70-130 0.447 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.447 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In-Propylbenzene 21.2 10.0 " 20.0 ND 108 70-130 0.471 20 In | trans-1,2-Dichloroethene        | 20.8   | 5.00               | "     | 20.0           | ND               | 104      | 70-130         | 11.2 | 20           |       |
| 1,3-Dichloropropane       21.3       5.00       "       20.0       ND       106       70-130       5.80       20         2,2-Dichloropropane       20.4       5.00       "       20.0       ND       102       70-130       14.7       20         Di-isopropyl ether       20.4       5.00       "       20.0       ND       102       70-130       13.6       20         Ethylbenzene       20.9       5.00       "       20.0       ND       104       70-130       5.91       20         Hexachlorobutadiene       22.2       10.0       "       20.0       ND       111       70-130       5.91       20         Isopropylbenzene       18.2       5.00       "       20.0       ND       91.0       70-130       2.79       20         Isopropyltoluene       21.0       5.00       "       20.0       ND       105       70-130       4.88       20         Methylene chloride       21.7       0.641       "       20.0       ND       108       70-130       11.7       20         Methyl tert-butyl ether       21.5       0.381       "       20.0       ND       108       70-130       11.3       20   | 1,2-Dichloropropane             | 23.9   | 0.500              | **    | 20.0           | ND               | 120      | 70-130         | 6.93 | 20           |       |
| Di-isopropyl ether 20.4 5.00 " 20.0 ND 102 70-130 13.6 20 Ethylbenzene 20.9 5.00 " 20.0 ND 104 70-130 5.91 20 Hexachlorobutadiene 22.2 10.0 " 20.0 ND 111 70-130 6.51 20 Isopropylbenzene 18.2 5.00 " 20.0 ND 91.0 70-130 2.79 20 p-Isopropylbenzene 21.0 5.00 " 20.0 ND 105 70-130 4.88 20 Methylene chloride 21.7 0.641 " 20.0 ND 108 70-130 11.7 20 Methyleter-butyl ether 21.5 0.381 " 20.0 ND 108 70-130 11.3 20 Naphthalene 23.8 8.00 " 20.0 ND 119 70-130 7.41 20 Naphthalene 21.5 5.00 " 20.0 ND 108 70-130 5.41 20 Naphthalene 21.5 5.00 " 20.0 ND 108 70-130 5.41 20 Naphthalene 21.5 5.00 " 20.0 ND 108 70-130 5.41 20 Naphthalene 20.9 0.422 " 20.0 ND 108 70-130 5.41 20 Naphthalene 20.9 0.422 " 20.0 ND 104 70-130 5.41 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 5.41 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 5.41 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 Naphthalene 20.0 ND 104 70-130 8.48 20 Naphthalene 20.0 ND 104 70-130 8.48 20 Naphthalene 20.0 ND 104 70-130 8.48 20 Naphthalene 20.0 ND 104 70-130 8.48 20 Naphthalene 20.0 ND 104 70-130 8.48 20 Naphthalene 20.0 ND 105 70-130 8.48 20 Naphthalene 20.0 ND 106 70-130 8.48 20 Naphthalene 20.0 ND 106 70-130 8.48 20 ND 112 70-130 8.48  | 1,3-Dichloropropane             | 21.3   | 5.00               | 11    | 20.0           | ND               | 106      | 70-130         | 5.80 |              |       |
| Ethylbenzene         20.9         5.00         "         20.0         ND         104         70-130         5.91         20           Hexachlorobutadiene         22.2         10.0         "         20.0         ND         111         70-130         6.51         20           Isopropylbenzene         18.2         5.00         "         20.0         ND         91.0         70-130         2.79         20           p-Isopropylbenzene         21.0         5.00         "         20.0         ND         105         70-130         4.88         20           Methylene chloride         21.7         0.641         "         20.0         ND         108         70-130         11.7         20           Methyl tert-butyl ether         21.5         0.381         "         20.0         ND         108         70-130         11.3         20           Naphthalene         23.8         8.00         "         20.0         ND         119         70-130         7.41         20           n-Propylbenzene         21.5         5.00         "         20.0         ND         108         70-130         4.76         20           1,1,2,2-Tetrachloroethane         20.9  | 2,2-Dichloropropane             | 20.4   | 5.00               | 11    | 20.0           | ND               | 102      | 70-130         | 14.7 | 20           |       |
| Ethylbenzene         20.9         5.00         "         20.0         ND         104         70-130         5.91         20           Hexachlorobutadiene         22.2         10.0         "         20.0         ND         111         70-130         6.51         20           Isopropylbenzene         18.2         5.00         "         20.0         ND         91.0         70-130         2.79         20           P-Isopropylbenzene         21.0         5.00         "         20.0         ND         105         70-130         4.88         20           Methylene chloride         21.7         0.641         "         20.0         ND         108         70-130         11.7         20           Methyl tert-butyl ether         21.5         0.381         "         20.0         ND         108         70-130         11.3         20           Naphthalene         23.8         8.00         "         20.0         ND         119         70-130         7.41         20           n-Propylbenzene         21.5         5.00         "         20.0         ND         108         70-130         4.76         20           n-Propylbenzene         21.5         5  | Di-isopropyl ether              | 20.4   | 5.00               | 11    | 20.0           | ND               | 102      | 70-130         | 13.6 | 20           |       |
| Sopropylbenzene   18.2   5.00   "   20.0   ND   91.0   70-130   2.79   20  | Ethylbenzene                    | 20.9   | 5.00               | "     | 20.0           | ND               | 104      | 70-130         | 5.91 |              |       |
| p-Isopropyltoluene 21.0 5.00 " 20.0 ND 105 70-130 4.88 20 Methylene chloride 21.7 0.641 " 20.0 ND 108 70-130 11.7 20 Methyl tert-butyl ether 21.5 0.381 " 20.0 ND 108 70-130 11.3 20 Naphthalene 23.8 8.00 " 20.0 ND 119 70-130 7.41 20 n-Propylbenzene 21.5 5.00 " 20.0 ND 108 70-130 4.76 20 1.1,2,2-Tetrachloroethane 20.9 0.422 " 20.0 ND 104 70-130 5.41 20 Tetrachloroethene 19.8 0.500 " 20.0 ND 99.0 70-130 5.18 20 Toluene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 1.2,3-Trichlorobenzene 22.4 10.0 " 20.0 ND 112 70-130 8.48 20 1.2,3-Trichlorobenzene 21.2 10.0 " 20.0 ND 112 70-130 0.447 20 1.2,4-Trichlorobenzene 21.2 10.0 " 20.0 ND 106 70-130 0.471 20 1.1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1.1,1-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20  | Hexachlorobutadiene             | 22.2   | 10.0               | "     | 20.0           | ND               | 111      | 70-130         | 6.51 | 20           |       |
| Methylene chloride         21.7         0.641         "         20.0         ND         108         70-130         11.7         20           Methyl tert-butyl ether         21.5         0.381         "         20.0         ND         108         70-130         11.3         20           Naphthalene         23.8         8.00         "         20.0         ND         119         70-130         7.41         20           n-Propylbenzene         21.5         5.00         "         20.0         ND         108         70-130         4.76         20           1,1,2,2-Tetrachloroethane         20.9         0.422         "         20.0         ND         104         70-130         5.41         20           Tetrachloroethene         19.8         0.500         "         20.0         ND         199.0         70-130         5.18         20           Toluene         20.9         5.00         "         20.0         ND         104         70-130         8.48         20           1,2,3-Trichlorobenzene         22.4         10.0         "         20.0         ND         112         70-130         0.447         20           1,2,4-Trichloroethane         21.6 <td>Isopropylbenzene</td> <td>18.2</td> <td>5.00</td> <td>**</td> <td>20.0</td> <td>ND</td> <td>91.0</td> <td>70-130</td> <td>2.79</td> <td>20</td> <td></td>  | Isopropylbenzene                | 18.2   | 5.00               | **    | 20.0           | ND               | 91.0     | 70-130         | 2.79 | 20           |       |
| Methylene chloride         21.7         0.641         "         20.0         ND         108         70-130         11.7         20           Methyl tert-butyl ether         21.5         0.381         "         20.0         ND         108         70-130         11.3         20           Naphthalene         23.8         8.00         "         20.0         ND         119         70-130         7.41         20           n-Propylbenzene         21.5         5.00         "         20.0         ND         108         70-130         4.76         20           1,1,2,2-Tetrachloroethane         20.9         0.422         "         20.0         ND         104         70-130         5.41         20           Tetrachloroethene         19.8         0.500         "         20.0         ND         199.0         70-130         5.18         20           Toluene         20.9         5.00         "         20.0         ND         104         70-130         8.48         20           1,2,3-Trichlorobenzene         22.4         10.0         "         20.0         ND         112         70-130         0.447         20           1,2,4-Trichloroethane         21.6 <td>p-Isopropyltoluene</td> <td>21.0</td> <td>5.00</td> <td>Ħ</td> <td>20.0</td> <td>ND</td> <td>105</td> <td>70-130</td> <td>4.88</td> <td></td> <td></td>  | p-Isopropyltoluene              | 21.0   | 5.00               | Ħ     | 20.0           | ND               | 105      | 70-130         | 4.88 |              |       |
| Methyl tert-butyl ether       21.5       0.381       "       20.0       ND       108       70-130       11.3       20         Naphthalene       23.8       8.00       "       20.0       ND       119       70-130       7.41       20         n-Propylbenzene       21.5       5.00       "       20.0       ND       108       70-130       4.76       20         1,1,2,2-Tetrachloroethane       20.9       0.422       "       20.0       ND       104       70-130       5.41       20         Tetrachloroethane       19.8       0.500       "       20.0       ND       99.0       70-130       5.18       20         Toluene       20.9       5.00       "       20.0       ND       104       70-130       8.48       20         1,2,3-Trichlorobenzene       22.4       10.0       "       20.0       ND       112       70-130       0.447       20         1,2,4-Trichlorobenzene       21.2       10.0       "       20.0       ND       106       70-130       0.471       20         1,1,1-Trichloroethane       21.6       5.00       "       20.0       ND       114       70-130       6.33       20   | Methylene chloride              | 21.7   | 0.641              | 11    | 20.0           | ND               | 108      | 70-130         | 11.7 |              |       |
| Naphthalene 23.8 8.00 " 20.0 ND 119 70-130 7.41 20 n-Propylbenzene 21.5 5.00 " 20.0 ND 108 70-130 4.76 20 1,1,2,2-Tetrachloroethane 20.9 0.422 " 20.0 ND 104 70-130 5.41 20 Tetrachloroethene 19.8 0.500 " 20.0 ND 99.0 70-130 5.18 20 Toluene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 1,2,3-Trichlorobenzene 22.4 10.0 " 20.0 ND 112 70-130 0.447 20 1,2,4-Trichlorobenzene 21.2 10.0 " 20.0 ND 106 70-130 0.471 20 1,1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1,1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20   | Methyl tert-butyl ether         | 21.5   | 0.381              | 11    | 20.0           | ND               | 108      | 70-130         | 11.3 |              |       |
| n-Propylbenzene 21.5 5.00 " 20.0 ND 108 70-130 4.76 20 1,1,2,2-Tetrachloroethane 20.9 0.422 " 20.0 ND 104 70-130 5.41 20 Tetrachloroethene 19.8 0.500 " 20.0 ND 99.0 70-130 5.18 20 Toluene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 1,2,3-Trichlorobenzene 22.4 10.0 " 20.0 ND 112 70-130 0.447 20 1,2,4-Trichlorobenzene 21.2 10.0 " 20.0 ND 106 70-130 0.471 20 1,1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1,1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20  | Naphthalene                     | 23.8   | 8.00               | 11    | 20.0           | ND               | 119      | 70-130         | 7.41 |              |       |
| 1,1,2,2-Tetrachloroethane 20.9 0.422 " 20.0 ND 104 70-130 5.41 20 Tetrachloroethene 19.8 0.500 " 20.0 ND 99.0 70-130 5.18 20 Toluene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 1,2,3-Trichlorobenzene 22.4 10.0 " 20.0 ND 112 70-130 0.447 20 1,2,4-Trichlorobenzene 21.2 10.0 " 20.0 ND 106 70-130 0.471 20 1,1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20   | n-Propylbenzene                 | 21.5   | 5.00               | **    | 20.0           | ND               | 108      | 70-130         | 4.76 |              |       |
| Tetrachloroethene 19.8 0.500 " 20.0 ND 99.0 70-130 5.18 20 Toluene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 1,2,3-Trichlorobenzene 22.4 10.0 " 20.0 ND 112 70-130 0.447 20 1,2,4-Trichlorobenzene 21.2 10.0 " 20.0 ND 106 70-130 0.471 20 1,1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20   | 1,1,2,2-Tetrachloroethane       | 20.9   | 0.422              | #     | 20.0           |                  | 104      | 70-130         | 5.41 |              |       |
| Toluene 20.9 5.00 " 20.0 ND 104 70-130 8.48 20 1,2,3-Trichlorobenzene 22.4 10.0 " 20.0 ND 112 70-130 0.447 20 1,2,4-Trichlorobenzene 21.2 10.0 " 20.0 ND 106 70-130 0.471 20 1,1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20  | Tetrachloroethene               | 19.8   | 0.500              | 11    | 20.0           | ND               | 99.0     | 70-130         | 5.18 |              | 1 .   |
| 1,2,3-Trichlorobenzene       22.4       10.0       "       20.0       ND       112       70-130       0.447       20         1,2,4-Trichlorobenzene       21.2       10.0       "       20.0       ND       106       70-130       0.471       20         1,1,1-Trichloroethane       21.6       5.00       "       20.0       ND       108       70-130       9.20       20         1,1,2-Trichloroethane       22.8       0.347       "       20.0       ND       114       70-130       6.33       20   | Toluene .                       | 20.9   |                    | н .   | 20.0           |                  |          |                |      |              |       |
| 1,2,4-Trichlorobenzene       21.2       10.0       20.0       ND       106       70-130       0.471       20         1,1,1-Trichloroethane       21.6       5.00       20.0       ND       108       70-130       9.20       20         1,1,2-Trichloroethane       22.8       0.347       20.0       ND       114       70-130       6.33       20  | 1,2,3-Trichlorobenzene          |        |                    | н     |                |                  |          |                |      |              |       |
| 1,1,1-Trichloroethane 21.6 5.00 " 20.0 ND 108 70-130 9.20 20 1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20   | 1,2,4-Trichlorobenzene          |        |                    | #     |                |                  |          |                |      |              |       |
| 1,1,2-Trichloroethane 22.8 0.347 " 20.0 ND 114 70-130 6.33 20  | 1,1,1-Trichloroethane           |        |                    | 11    |                |                  |          |                |      |              |       |
|  | 1,1,2-Trichloroethane           |        |                    | 11    |                |                  |          |                |      |              |       |
|  | Trichloroethene                 | 22.2   | 0.500              |       | 20.0           | ND               | 111      | 70-130         | 4.61 | 20           |       |

Great Lakes Analytical--Oak Creek



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Midwest Engineering Services

205 Wilmont Dr. Waukesha, WI 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

## WDNR Volatile Organic Compounds by Method 8260 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD  | RPD<br>Limit                            | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|---|-------|
| Batch 4010083 - EPA 5030B (P/T)  |        | B. (11.1. 11.1. )  |       |                |                  |          |                |      |   |       |
| Matrix Spike Dup (4010083-MSD1)  | Sou    | rce: W4011         | 34-01 | Prepared:      | 01/20/04         | Analyzed | l: 01/22/04    |      |   |       |
| Trichlorofluoremethane           | 20.9   | 5.00               | ug/l  | 20.0           | ND               | 104      | 70-130         | 13.8 | 20                                      |       |
| 1,2,4-Trimethylbenzene           | 21.7   | 5.00               | "     | 20.0           | ND               | 108      | 70-130         | 4.24 | 20                                      |       |
| 1,3,5-Trimethylbenzene           | 21.4   | 5.00               | "     | 20.0           | ND               | 107      | 70-130         | 6.76 | 20                                      |       |
| Vinyl chloride                   | 18.0   | 0.652              | **    | 20.0           | ND               | 90.0     | 70-130         | 8.09 | 20                                      |       |
| Total Xylenes                    | 65.2   | 5.00               | "     | 60.0           | ND               | 109      | 70-130         | 4.87 | 20                                      |       |
| Surrogate: Dibromofluoromethane  | 50.5   |                    | "     | 50.0           |                  | 101      | 70-130         |      | , |       |
| Surrogate: 1,2-Dichloroethane-d4 | 48.4   |                    | "     | 50.0           |                  | 96.8     | 70-130         |      |   |       |
| Surrogate: Toluene-d8            | 51.5   | •                  | "     | 50.0           |                  | 103      | 70-130         |      |   |       |
| Surrogate: 4-Bromofluorobenzene  | 45.7   |                    | "     | 50.0           |                  | 91.4     | 70-130         |      |   |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

Project: 7-21058

205 Wilmont Dr.

Waukesha, WI 53189

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 01/23/04 16:29

#### **Notes and Definitions**

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source

method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

Great Lakes Analytical--Buffalo Grove Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307

Note: For analyses that require NELAP accreditation, all analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager



## BELLEVIOLET GULLEGE COLLULES

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|   |              | 000           | 1100   |                |  |                  |                    |                         |   |         |        |               | ·                     |     |                     |        |                |                  |  |                      |                      |                            |           |
|---|--------------|---------------|--|----------------|--|------------------|--------------------|-------------------------|---|---------|--------|---------------|-----------------------|-----|---------------------|--------|----------------|------------------|--|----------------------|----------------------|----------------------------|-----------|
| Client: My daysest Engine                               | C/2/1        | VISER         | Bill To:   |                | ()   |                  |                    |                         |   |         |        |               |                       | TA  | AT: <b>(</b> ST     | (D.)   | 4 DA           | 4 <i>Y</i> :     | 3 DA   | Y 21                 | DAY 1                | DAY <2                     | 24 HRS.   |
| Client: MUDWEST ENGINE<br>Address: 205 W. MUNT DR       | 7            | /             | A -1 -1  | ^              | M  | M                | 1                  |                         |   |         |        |               |                       | X   | YES -               | TAT I  | s criti        | ical             |  |                      | DATE RES             | DAY <2<br>SULTS NEED<br>Z3 | 19-04-V   |
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| Réport to: Mila Réhiclet Phone #: (<br>E-mail: Fax #: ( | )            |               | State &<br>Prograi                               | n:             |  |                  |                    | Fax                     | one                                     | ĺ       | )<br>) |               |                       |     | eliveral<br>] STD   | ole Pa | аска<br>] Othe | <i>ge:</i><br>er | GLA  | <i>very</i> .<br>□ C | Method:<br>lient ☑ S | :<br>Shipped □             | Courier 🗌 |
| Project Name: MPL   Badgere                             | <del>,</del> | 7 7           | 7  |                | 7  | # of I           |                    | ∋s                      | /{                                      | 2/5     | To 1   | 7 7           | 7                     | 7   | 7                   | 7      | 7              | 7                | SA   | 4MPLE                | - /                  |                            |           |
| Project #/PO#: 7-21058                                  |              | ି ଜ /         | ₽/.  | ,              | / Pre  | eserva           | ative              | Used.                   | /§*                                     |         | ~<br>~ |               |                       | Ι.  | / /                 | / /    | / /            | /                | /co.   | NTRO                 | L/                   |                            |           |
| Sampler: Mike Achielat FIELD ID, LOCATION               | -   K        |               | SAMPLE<br>MATHER                                 |                | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\           | \<br>\\$\\\$\\\$ | [<br>]<br>]<br>]   |                         | 1 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 |         |        | //            | $^{\prime}/^{\prime}$ | '   |                     | /,     |                | 85.40°           |  |                      |                      | BORATO<br>NUMBI            |           |
| 1 1711.0-10   |              | - 1           | 1 . /  | <del>\ \</del> | <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del> | <del>~/~</del>   | / <del>\\</del> \\ | <del>2</del> / <i>R</i> | $\frac{1}{1}$                           | /5 /-   | +      | $\overline{}$ | _                     | -1  |                     | -/     | -              | , 00             | / 83   | ή —                  |                      |                            |           |
| PID:  | - 1/20/L     | 4 am          | tho  |                | 14   | 1                |                    | 3                       |   | 1       |        |               |                       |     |                     |        |                |                  |  | V                    | ノイで                  | 119                        | 4-01      |
| 2 17(N-10)<br>PID:                                      |              | am            | tho  |                | *  |                  |                    | 3                       |   | \       | 4      |               |                       |     |                     |        |                |                  |  |                      | 1                    |                            | -02       |
| 3 MW-103  | -            | am            | 1/20   |                | 1  |                  |                    | 3                       | :                                       | 7       | 4      |               |                       |     |                     |        |                |                  |  |                      |                      |                            | -03       |
| 4) inu-7  |              | am            | tho  |                | 1  |                  |                    | 3                       |   |         | 4      |               |                       |     |                     |        |                |                  |  |                      |                      |                            | -04       |
| 5 17110-9<br>PID:                                       | 1            | am            | theo   |                | 1  |                  |                    | 3                       |   | 1       |        |               |                       |     |                     |        |                |                  |  |                      |                      |                            | -05       |
| 6   | <del> </del> |               | <del>                                     </del> | 1              | 11   |                  | 十                  | 1                       |   |         | $\top$ | _             | <b> </b>              |     |                     |        |                |                  |  |                      |                      |                            |           |
| PID:  |              |               |  |                |  |                  |                    |                         |   |         |        |               |                       |     |                     |        |                |                  |  |                      |                      |                            | -06       |
| 7   |              |               |  |                |  |                  |                    |                         |   |         | İ      |               |                       |     |                     |        |                |                  |  |                      |                      |                            |           |
| PID:  |              | <del>- </del> | <u> </u>   |                |  |                  | -                  | _                       |   | <b></b> |        |               | <u> </u>              | -   |                     |        |                |                  |  | <u> </u>             |                      |                            |           |
| PID:  | _            |               |  |                |  |                  |                    |                         |   |         |        |               |                       |     |                     |        | Ì              |                  |  |                      |                      |                            |           |
| 9   |              |               | <del> </del>                                     | ++             |  | _                | +                  | -                       |   |         | +      |               | <del> </del>          |     |                     |        |                |                  |  |                      |                      |                            |           |
| PID:  |              |               |  |                |  |                  |                    |                         |   |         |        |               |                       |     |                     |        |                |                  |  |                      |                      |                            |           |
| 10  |              |               |  |                |  |                  |                    |                         |   |         |        |               |                       |     |                     |        |                |                  |  |                      |                      |                            |           |
| RELINGUISHED RID  | RECEIV       | ied la        | L  | <u> </u>       | 1/2  | 0/04             | REL                | INQUIS                  | SHED                                    |         |        |               | <u> </u>              | ]]  | - R                 | ECEI'  | VED            |                  | <u>                                     </u> | L                    |                      |                            |           |
| RELINQUISHED  | RECEIV       | ED            | 10m  | un             |  | 1.1/_            | REI                | INQUIS                  | SHED                                    |         |        |               | <del></del>           |     | -  $R$              | ECEI   | VED            |                  | <del></del>                                  |                      |                      |                            |           |
|   |              | <del>,</del>  |  |                |  |                  |                    |                         |   |         |        |               |                       |     |                     |        |                |                  |  |                      |                      |                            |           |
| COMMENTS:   |              |               |  |                |  | <u>'</u>         | -                  |                         |   |         |        |               |                       |     |                     |        |                |                  |  |                      |                      |                            |           |
|   |              | <del></del>   |  |                |  |                  |                    |                         |   |         |        |               |                       | *** |                     |        |                | T                | PAG  | iE \                 | ·                    | OF                         | -         |



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha WI, 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW-7      | W308148-01    | Water  | 08/14/03 13:15 | 08/15/03 14:34 |
| MW-9      | W308148-02    | Water  | 08/14/03 13:40 | 08/15/03 14:34 |
| MW-102    | W308148-03    | Water  | 08/14/03 13:25 | 08/15/03 14:34 |
| MW-103    | W308148-04    | Water  | 08/14/03 13:10 | 08/15/03 14:34 |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units       | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|-------------|----------|---------|----------|----------|-----------|-------|
| MW-7 (W308148-01) Water     | Sampled: 08/14/03 13:15 | Received:          | 08/15/03    | 14:34    |         |          |          |           | QC    |
| Benzene                     | ND                      | 0.500              | ug/l        | 1        | 3080073 | 08/19/03 | 08/20/03 | EPA 8021B |       |
| ∃romobenzene                | ND                      | 0.500              | Ħ           | **       | 11      | "        | **       | **        |       |
| Bromodichloromethane        | ND                      | 0.500              | tt .        | 11       | "       | 11       | п        | "         |       |
| p-Butylbenzene              | ND                      | 0.500              | "           | "        | **      | "        |          | "         |       |
| ≠ec-Butylbenzene            | ND                      | 0.500              | **          | "        | "       | "        | "        | 11        |       |
| ert-Butylbenzene            | ND                      | 0.500              | **          | n        | **      | "        | Ħ        | 11        |       |
| Carbon tetrachloride        | ND                      | 0.500              | 11          | "        | "       | "        | **       | "         |       |
| Chlorobenzene               | ND                      | 0.500              | "           | "        | н       | "        | •        | "         |       |
| Chloroethane                | ND                      | 0.500              | n           | 11       | "       | **       | n        | IT        |       |
| Chloroform                  | ND                      | 0.140              | Ħ           | Ħ        | 91      | **       | **       | 11        |       |
| Chloromethane               | 9.29                    | 0.600              | 11          | 11       | **      | **       | 11       | "         | G13   |
| <b></b> 2-Chlorotoluene     | ND                      | 0.500              | **          | 11       | ti      | "        | 11       | 11        |       |
| -Chlorotoluene              | ND                      | 0.500              | **          | 11       | 11      | "        | "        | rr .      |       |
| Dibromochloromethane        | ND                      | 0.500              | . 11        | 11       | "       | ıı       | H*       | "         |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.390              | **          | **       | 11      | **       | "        | "         |       |
| ,2-Dibromoethane            | ND                      | 0.380              | 11          | "        | n       | "        | **       | "         |       |
| ,2-Dichlorobenzene          | ND                      | 0.500              | н           | **       | 11      | "        | . 11     | n         |       |
| 1,3-Dichlorobenzene         | ND                      | 0.500              | er .        | n        | 11      | H .      | •        | n         |       |
| ,4-Dichlorobenzene          | ND                      | 0.500              | п           | n        | **      | II .     | n        | "         |       |
| Dichlorodifluoromethane     | ND                      | 0.500              | **          | 11       | "       | "        | н        | "         | G1:   |
| ,1-Dichloroethane           | 5.93                    | 0.500              | "           | 11       | "       | n        | n        | "         |       |
| 1,2-Dichloroethane          | 2.26                    | 0.500              | 11          | 11       | **      | 11       | **       | "         |       |
| ,1-Dichloroethene           | 1.87                    | 0.500              | "           | **       | н       | 11       | 19       | "         |       |
| is-1,2-Dichloroethene       | 0.621                   | 0.500              | ••          | "        | 11      | **       | "        | "         |       |
| trans-1,2-Dichloroethene    | ND                      | 0.500              | n           | **       | 11      | n        | "        | 11        |       |
| 1,2-Dichloropropane         | ND                      | 0.500              | п           | n        | "       | n        | 11       | H         |       |
| 3,3-Dichloropropane         | ND                      | 0.500              | 11          | H        | "       | 11       | **       | n         |       |
| 2,2-Dichloropropane         | ND                      | 0.500              | **          |          | ti      | **       |          | "         |       |
| Di-isopropyl ether          | ND                      | 5.00               | п           | n        | 11      |          | "        | "         |       |
| ∃thylbenzene                | ND                      | 0.500              | 11          | 11       | "       | n        | **       | ıı        |       |
| -lexachlorobutadiene        | ND                      | 5.00               | 19          | Ħ        | "       | n        |          | "         |       |
| Isopropylbenzene            | ND                      | 0.500              | 19          | "        | **      | 11       | n        | 11        |       |
| p-Isopropyltoluene          | ND                      | 0.500              | "           | "        | 11      | "        | н        | .11       |       |
| Methylene chloride          | ND                      | 0.530              | n           | **       | **      |          | 11       | "         |       |
| ■Aethyl tert-butyl ether    | 1.53                    | 0.500              | н           | n        | **      | **       | 17       | n         |       |
| Naphthalene                 | ND                      | 2.00               | 17          | n        | **      | 11       | 19       | 11        |       |
| n-Propylbenzene             | ND                      | 0.500              | <b>,,</b> . | 11       | **      | 11       | "        | 11        |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.350              |             | **       | "       | "        | **       | "         |       |
| Tetrachloroethene           | 2.38                    | 0.500              | IF          | **       | **      |          | 11       | "         |       |
| Toluene                     | 2.36<br>ND              | 0.500              | **          | "        | ,,      | 11       | 11       | H         |       |
| ,2,3-Trichlorobenzene       | ND<br>ND                | 2.00               | ,,          | 11       | 11      | 11       | 11       | 11        |       |
| ,2,4-Trichlorobenzene       |                         |                    | n           | **       | 11      | . "      | "        | 11        |       |
| ,2,4-Themorobenzene         | ND                      | 2.00               |             |          |         |          | **       |           |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Note |
|-----------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|------|
| MW-7 (W308148-01) Water     | Sampled: 08/14/03 13:15 | Received:          | 08/15/03 | 14:34    |         |          |          |           | Q    |
| 1,1,1-Trichloroethane       | 76.6                    | 5.00               | ug/l     | 10       | 3080073 | 08/19/03 | 08/21/03 | EPA 8021B |      |
| 1,1,2-Trichloroethane       | ND                      | 0.160              | 11       | 1        | 11      | **       | 08/20/03 | H         |      |
| Trichloroethene             | 72.0                    | 5.00               | W        | 10       | **      | "        | 08/21/03 | 11        |      |
| Trichlorofluoromethane      | ND                      | 0.500              | "        | 1        | 11      | "        | 08/20/03 | **        |      |
| 1,2,4-Trimethylbenzene      | ND                      | 1.00               | 11       | "        | 11      | **       | "        | 11        |      |
| 1,3,5-Trimethylbenzene      | ND                      | 1.00               | "        | **       | **      | #        | "        | 11        |      |
| Vinyl chloride              | ND                      | 0.170              | "        | 11       | **      | "        | "        | "         |      |
| Total Xylenes               | ND                      | 0.500              | n        | 11       | н       | "        | 11       | 11        |      |
| Surrogate: 1-Cl-4-FB (ELCD) |                         | 94.3 %             | 76.3     | -154     | "       | "        | "        | "         |      |
| Surrogate: 1-Cl-4-FB (PID)  |                         | 100 %              | 71.1     |          | "       | "        | "        | "         |      |
| MW-9 (W308148-02) Water     | Sampled: 08/14/03 13:40 | Received:          | 08/15/03 | 14:34    |         |          |          |           | Q    |
| Benzene                     | 11.4                    | 0.500              | ug/l     | 1        | 3080073 | 08/19/03 | 08/21/03 | EPA 8021B |      |
| Bromobenzene                | ND                      | 0.500              | **       | 11       | "       | 11       | n        | "         |      |
| Bromodichloromethane        | ND                      | 0.500              | 11       | 11       | H       | **       | 11       | "         |      |
| -Butylbenzene               | 27.5                    | 0.500              | "        | H        | II      | n        |          | n         |      |
| ec-Butylbenzene             | 19.3                    | 0.500              | 11       | 11       | "       | 11       | 11       | 11        |      |
| tert-Butylbenzene           | 4.30                    | 0.500              | "        | 11       | "       | "        | . "      | n         |      |
| Carbon tetrachloride        | ND                      | 0.500              | "        | 17       | "       | **       | **       | "         |      |
| Chlorobenzene               | ND                      | 0.500              | tt       | **       | "       | n        | 11       | H         |      |
| Chloroethane                | 3.86                    | 0.500              | 19       | 11       | **      | n        | n        | "         |      |
| Chloroform                  | ND                      | 0.140              | 11       | 11       | **      | "        | •        | n         |      |
| Chloromethane               | 3.68                    | 0.600              | "        | 11       | 11      | 11       | 11       | n         | G1   |
| -Chlorotoluene              | ND                      | 0.500              | **       | , 11     | "       | **       | "        | 11        |      |
| 4-Chlorotoluene             | ND                      | 0.500              | "        | n        | H       |          | 11       | **        |      |
| Dibromochloromethane        | ND                      | 0.500              | 11       | 11       | 11      | 11       | "        | u         |      |
| ,2-Dibromo-3-chloropropane  | ND                      | 0.390              | **       | **       | "       | **       | "        | n         |      |
| ,2-Dibromoethane            | ND                      | 0.380              | **       | "        | "       | 19       | n        | Ħ         |      |
| 1,2-Dichlorobenzene         | ND                      | 0.500              | n        | "        | 11      | 11       | 11       | 11        |      |
| ,3-Dichlorobenzene          | ND                      | 0.500              | 11       | **       | n       | n        | "        | 11        |      |
| ,4-Dichlorobenzene          | ND                      | 0.500              | **       | 11       | "       | н        | 17       | "         |      |
| Dichlorodifluoromethane     | ND                      | 0.500              | n        | Ħ        | "       | "        |          | n         | GI   |
| 1,1-Dichloroethane          | 47.7                    | 0.500              | Ħ        | n        | **      | ur .     | **       | n         |      |
| ,2-Dichloroethane           | ND                      | 0.500              | n        | "        | n       | n        | "        | 11        |      |
| ,1-Dichloroethene           | 28.7                    | 0.500              | 11       | "        | n       | n        | 11       | **        |      |
| cis-1,2-Dichloroethene      | 832                     | 25.0               | **       | 50       | n       | . "      | 08/22/03 | 11        |      |
| rans-1,2-Dichloroethene     | 42.5                    | 0.500              | n        | 1        | 11      | 11       | 08/21/03 | 11        |      |
| ,2-Dichloropropane          | ND                      | 0.500              | "        | u        | "       | "        | If       | **        |      |
| ,3-Dichloropropane          | ND                      | 0.500              | **       | . 11     | н       | "        | н        | H         |      |
| 2,2-Dichloropropane         | ND                      | 0.500              | **       | "        | 11      | n        | 11       | #         |      |
| ⊃i-isopropyl ether          | ND                      | 5.00               | *        | "        | 11      | "        | 11       | "         |      |
| <b>Ithylbenzene</b>         | 229                     | 25.0               | 11       | 50       | 11      | 11       | 08/22/03 | **        |      |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical--Oak Creek

| Analyte                      | Result                    | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------|---------------------------|--------------------|------------|----------|---------|----------|----------|-----------|-------|
| MW-9 (W308148-02) Water      | Sampled: 08/14/03 13:40   | Received:          | 08/15/03   | 14:34    |         |          | -        |           | QC    |
| Hexachlorobutadiene          | ND                        | 5.00               | ug/l       | 1        | 3080073 | 08/19/03 | 08/21/03 | EPA 8021B |       |
| <b>I</b> sopropylbenzene     | 9.71                      | 0.500              | "          | 11       | **      | н        | "        | "         |       |
| p-Isopropyltoluene           | 14.0                      | 0.500              | "          | 11       | 11      | 11       | •        | "         |       |
| Methylene chloride           | ND                        | 0.530              | <b>"</b> . | 17       | 17      | "        | "        | n         |       |
| Methyl tert-butyl ether      | ND                        | 0.500              | u          | "        | **      | **       | "        | H         |       |
| Naphthalene                  | ND                        | 100                | **         | 50       | 11      | n        | 08/22/03 | "         |       |
| n-Propylbenzene              | 15.8                      | 0.500              |            | 1        | 17      | "        | 08/21/03 | 11        |       |
| ■,1,2,2-Tetrachloroethane    | ND                        | 0.350              | n          | 11       | "       | n        | n        | "         |       |
| Tetrachloroethene            | ND                        | 0.500              | **         | "        | **      | **       | **       | 11        |       |
| Toluene                      | 99.2                      | 25.0               | **         | 50       | **      | n        | 08/22/03 | 11        |       |
| 1,2,3-Trichlorobenzene       | ND                        | 2.00               | 11         | 1        | **      | "        | 08/21/03 | "         |       |
| _,2,4-Trichlorobenzene       | ND                        | 2.00               | **         | n        | 11      | n        | 11       | n         |       |
| 1,1,1-Trichloroethane        | 30.4                      | 0.500              | **         | 11       | **      | "        | "        | n         |       |
| ,1,2-Trichloroethane         | ND                        | 0.160              | 11         | 11       | 11      | "        | **       |           |       |
| _Trichloroethene             | 2050                      | 25.0               | 11         | 50       | "       | **       | 08/22/03 | "         |       |
| Trichlorofluoromethane       | ND                        | 0.500              | **         | 1        | 17      | **       | 08/21/03 | n         |       |
| 1,2,4-Trimethylbenzene       | 201                       | 50.0               | "          | 50       | "       | 11       | 08/22/03 | Ħ         |       |
| 1,3,5-Trimethylbenzene       | 55.2                      | 50.0               | п          | 11       | "       | 11       | "        | n         |       |
| Vinyl chloride               | 272                       | 8.50               | 11         | 11       | 11      | **       | **       | "         |       |
| Total Xylenes                | 835                       | 25.0               |            | rt       | **      | **       | 11       | 11        |       |
| Surrogate: 1-Cl-4-FB (ELCD)  |                           | 86.7 %             | 76         | 3-154    | "       | "        | 08/21/03 | "         |       |
| Surrogate: 1-Cl-4-FB (PID)   |                           | 82.1 %             |            | 1-137    | "       | n        | "        | n         |       |
| MW-102 (W308148-03) Wate     | er Sampled: 08/14/03 13:2 | 25 Receive         | ed: 08/15/ | 03 14:34 |         |          |          |           | QC    |
| Benzene                      | 1.76                      | 0.500              | ug/l       | 1        | 3080073 | 08/19/03 | 08/22/03 | EPA 8021B |       |
| <b>Bromobenzene</b>          | ND                        | 0.500              | 11         | 11       | **      | H        | **       | "         |       |
| <b>₿</b> romodichloromethane | ND                        | 0.500              | 11         | 11       | "       | 11       |          | "         |       |
| H-Butylbenzene               | ND                        | 0.500              |            | 11       | 11 .    | n        | **       | n         |       |
| sec-Butylbenzene             | ND                        | 0.500              | 11         | 11       | 11      | 11       | "        | **        |       |
| ■ert-Butylbenzene            | ND                        | 0.500              | 17         | 11       | 11      | "        | "        | "         | •     |
| □arbon tetrachloride         | ND                        | 0.500              | 11         | 17       | n       | 11       |          | **        |       |
| Chlorobenzene                | ND                        | 0.500              | "          | 17       | 11      | "        | . "      | n         |       |
| Chloroethane                 | ND                        | 0.500              | 17         | 11       | 11      |          | "        | n         |       |
| Chloroform                   | ND                        | 0.140              | 11         | 17       | 11      | 11       | n        | 11        |       |
| thloromethane                | ND                        | 0.600              | 11         | "        | "       | 11       | 08/21/03 | 11        | G13   |
| 2-Chlorotoluene              | ND                        | 0.500              | "          | "        | 11      | 11       | 08/22/03 |           |       |
| -Chlorotoluene               | ND                        | 0.500              | "          | 17       | **      | 11       | 11       | n         |       |
| Dibromochloromethane         | ND                        | 0.500              | 11         | **       | "       | "        | 11       | **        |       |
| 1,2-Dibromo-3-chloropropane  | ND                        | 0.390              | **         | **       | 11      | 11       | H        | 11        |       |
| 1,2-Dibromoethane            | ND                        | 0.380              | **         | †I       | ***     | "        | 11       | н         |       |
| ,2-Dichlorobenzene           | ND                        | 0.500              | 11         | 17       | "       | "        | **       | n         |       |
| ,3-Dichlorobenzene           | ND                        | 0.500              | 11         | 11       |         | 11       | ,,       | tt        |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021

### Great Lakes Analytical--Oak Creek

| Analyte                     | R<br>Result             | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| MW-102 (W308148-03) Water   | Sampled: 08/14/03 13:25 | Receive            | d: 08/15/ | 03 14:34 |         |          |          |           | QO    |
| 1,4-Dichlorobenzene         | ND                      | 0.500              | ug/l      | 1        | 3080073 | 08/19/03 | 08/22/03 | EPA 8021B |       |
| Dichlorodifluoromethane     | ND                      | 0.500              | **        | **       | 11      | 11       | **       | n         | G1:   |
| 1,1-Dichloroethane          | 1.05                    | 0.500              | "         | **       | "       | "        | "        | "         |       |
| 1,2-Dichloroethane          | 0.611                   | 0.500              | "         | H        | "       | **       | •        | 11        |       |
| ,1-Dichloroethene           | ND                      | 0.500              | **        | **       | **      | "        | **       | 11        |       |
| is-1,2-Dichloroethene       | 14.7                    | 0.500              | "         | **       | **      | **       |          | n         |       |
| trans-1,2-Dichloroethene    | 1.16                    | 0.500              | "         | **       | **      | **       | **       | 11        |       |
| ,2-Dichloropropane          | ND                      | 0.500              | п         | Ħ        | 11      | 11       | **       | 11        |       |
| ,3-Dichloropropane          | ND                      | 0.500              | "         | "        | "       | **       | #1       | 11        |       |
| 2,2-Dichloropropane         | ND                      | 0.500              | 11        | H.       | 11      | **       | **       | 11        |       |
| Di-isopropyl ether          | ND                      | 5.00               | n         | 11       | 11      | "        | "        | 11        |       |
| <b>E</b> thylbenzene        | 1.87                    | 0.500              | **        | "        | и .     | **       | "        | 11        |       |
| Hexachlorobutadiene         | ND                      | 5.00               | **        | 11       | 11      |          | 11       | 11        |       |
| IsopropyIbenzene            | 0.877                   | 0.500              | n         | n .      | 11      | "        | Ħ        | 11        |       |
| p-Isopropyltoluene          | ND ·                    | 0.500              | "         | 11       | II      | **       | **       | 11        |       |
| Methylene chloride          | ND                      | 0.530              | н         | н        | **      | 11       |          | **        |       |
| Methyl tert-butyl ether     | 1.77                    | 0.500              | 11        | **       | 11      | 11       | **       | n         |       |
| Naphthalene                 | ND                      | 2.00               | 11        | н        | 11      | "        | 17       | n         |       |
| ■-Propylbenzene             | 0.559                   | 0.500              | 17        | н        | 11      | "        | 11       | H         | •     |
| ,1,2,2-Tetrachloroethane    | ND                      | 0.350              | n         | Ħ        | n       | **       | n        | n         |       |
| Tetrachloroethene           | ND                      | 0.500              | n         | n        | "       | 11       | 17       | 11        |       |
| Toluene                     | ND                      | 0.500              | IT        | u u      | **      | 11       | 11       | 11        |       |
| ,2,3-Trichlorobenzene       | ND                      | 2.00               | n         | n        | "       | 11       | 11       | 11        |       |
| ,2,4-Trichlorobenzene       | ND                      | 2.00               | 11        | н        | 11      | 11       | 19       | 11        |       |
| 1,1,1-Trichloroethane       | 3.50                    | 0.500              | Ħ         | u        | **      | n        | 11       | 11        |       |
| 1,1,2-Trichloroethane       | ND                      | 0.160              | **        | "        | "       | 11       | n        | n         |       |
| Trichloroethene             | 16.0                    | 0.500              | **        | н        | **      | 11       | 11       | **        |       |
| Trichlorofluoromethane      | ND                      | 0.500              | "         | 11       | "       | 11       | n        | 11        |       |
| 1,2,4-Trimethylbenzene      | ND                      | 1.00               | "         | "        | ••      | 11       | tt       | n         |       |
| 1,3,5-Trimethylbenzene      | ND                      | 1.00               | "         | 11       | **      | n        | "        | 11        |       |
| Vinyl chloride              | ND                      | 0.170              | 11        | 11       | 11      | u        | **       | **        |       |
| Total Xylenes               | ND                      | 0.500              | **        | 11       | **      | 11       | **       | n         |       |
| Surrogate: 1-Cl-4-FB (ELCD) |                         | 101 %              | 76.3      | -154     | "       | "        | "        | "         |       |
| Surrogate: I-Cl-4-FB (PID)  |                         | 98.3 %             | 71.1      |          | "       | "        | "        | "         |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021

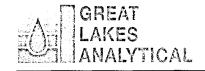
### Great Lakes Analytical-Oak Creek

| Analuta                              |                         | Reporting | I I=:4-   | Dilasia  | Datah   | Dronsess | Anolysis | Mathad   | Mate |
|--------------------------------------|-------------------------|-----------|-----------|----------|---------|----------|----------|--|------|
| Analyte                              | Result                  | Limit     | Units     | Dilution | Batch   | Prepared | Analyzed | Method   | Note |
| MW-103 (W308148-04) Water            | Sampled: 08/14/03 13:10 | Receive   | d: 08/15/ | 03 14:34 |         |          | ·        |  | Q    |
| Benzene                              | ND                      | 0.500     | ug/l      | 1        | 3080073 | 08/19/03 | 08/21/03 | EPA 8021B  |      |
| Bromobenzene                         | ND                      | 0.500     | 11        | **       | "       | **       | 11       | "  |      |
| Bromodichloromethane                 | ND                      | 0.500     | 11        | 11       | 11      | **       | **       | 11   |      |
| n-Butylbenzene                       | ND                      | 0.500     | 17        | **       | "       | "        | "        | THE STATE OF THE S |      |
| ec-Butylbenzene                      | ND                      | 0.500     | 11        | **       | n       | 17       | "        | 11   |      |
| ■ert-Butylbenzene                    | ND                      | 0.500     | "         | и .      | H       | "        | **       | Ħ  |      |
| Carbon tetrachloride                 | ND                      | 0.500     | "         | **       | n       | ij       | "        | "  |      |
| Chlorobenzene                        | ND                      | 0.500     | 11        | **       | "       | "        | **       | 11   |      |
| Chloroethane                         | ND                      | 0.500     | **        | 11       | 11      | "        | "        | n  |      |
| thloroform                           | ND                      | 0.140     | 11        | n        | "       | 17       | "        | n  |      |
| Chloromethane                        | ND                      | 0.600     | 11        | H        | "       | 11       | "        | n  | G1:  |
| <b>≛-</b> Chlorotoluene              | ND                      | 0.500     | 11        | 11       | n       | **       | **       | 11   |      |
| Chlorotoluene                        | ND                      | 0.500     | 11        | 11       | 11      | **       | 11       | 11   |      |
| Dibromochloromethane                 | ND                      | 0.500     | **        | 11       | "       | tr       | n        | , "  |      |
| 1,2-Dibromo-3-chloropropane          | ND                      | 0.390     | Ħ         | **       | 11      | n        | n        | 11   |      |
| ,2-Dibromoethane                     | ND                      | 0.380     | n         | H        | "       | п        | 11       | n  |      |
| ,2-Dichlorobenzene                   | ND                      | 0.500     | " .       |          | n       | **       | 11       | H  |      |
| 1,3-Dichlorobenzene                  | ND                      | 0.500     | **        | 11       | n       | **       | n        | n  |      |
| 1,4-Dichlorobenzene                  | ND                      | 0.500     | **        | 11       | Ħ       | **       | "        | n  |      |
| Dichlorodifluoromethane              | ND                      | 0.500     | **        | 17       | **      | 11       | "        | 11 .   | G1   |
| 1,1-Dichloroethane                   | ND                      | 0.500     | ,,        | 11       | n       | "        | H        | **   |      |
| 1,2-Dichloroethane                   | ND                      | 0.500     | **        | 11       | n       | "        | 11       | n  |      |
| ,1-Dichloroethene                    | ND                      | 0.500     | 11        | 11       | 11      | 11       | 11       | n  |      |
| is-1,2-Dichloroethene                | ND                      | 0.500     |           | **       | n       | 11       | 11       | 11   |      |
| trans-1,2-Dichloroethene             | ND                      | 0.500     | 11        | **       | "       | "        | "        | n  |      |
| 1,2-Dichloropropane                  | ND                      | 0.500     | **        | "        | "       | "        | n        | **   |      |
| ,3-Dichloropropane                   | ND                      | 0.500     | 19        | 11       | **      | **       | **       | u  |      |
| 2,2-Dichloropropane                  | ND                      | 0.500     | 11        | 11       | н       | 11       | n        | "  |      |
| Di-isopropyl ether                   | ND                      | 5.00      | 11        | 11       | n n     | "        | **       | "  |      |
| Ethylbenzene                         | ND                      | 0.500     | **        | 11       | n       | n        | Ħ        | •  |      |
| Hexachlorobutadiene                  | ND                      | 5.00      | **        | 17       | 11      | 11       | 11       | **   |      |
| rsopropylbenzene                     | ND                      | 0.500     | 11        | **       | **      | "        | **       | 11   |      |
| p-Isopropyltoluene                   | ND                      | 0.500     | **        | n        | н       |          |          | **   |      |
| Aethylene chloride                   | ND                      | 0.530     | **        | 11       | 11      | "        | **       | "  |      |
| -1ethyl tert-butyl ether             | ND                      | 0.500     | "         | 11       | U       | 11       | "        | **   |      |
| Naphthalene                          | ND                      | 2.00      |           | "        | н       | "        |          | 11   |      |
| -Propylbenzene                       | ND                      | 0.500     | **        | 11       | n       | 11       |          | 11   |      |
| ,1,2,2-Tetrachloroethane             | ND                      | 0.350     | 11        | **       | 11      | π        | **       | 11   |      |
| Tetrachloroethene                    | ND                      | 0.500     | 11        | "        | "       | 11       | Ħ        | 11   |      |
| Toluene                              | ND                      | 0.500     | **        | 11       |         | 11       | 11       | 11   |      |
| ,2,3-Trichlorobenzene                | ND                      | 2.00      | 19        | 17       | n       |          | 17       | 11   |      |
| ,2,4-Trichlorobenzene                | ND                      | 2.00      | 11        |          | IT      | n        | "        |  |      |
| ,2, <del>7-</del> 111011010001120110 | עוו                     | ∠.00      |           |          |         |          |          |  |      |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021

### Great Lakes Analytical--Oak Creek

| Analyte                    | Result                  | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------|-------------------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| MW-103 (W308148-04) Water  | Sampled: 08/14/03 13:10 | Receive            | d: 08/15/ | 03 14:34 |         |          |          |           | QC    |
| 1,1,1-Trichloroethane      | ND                      | 0.500              | ug/l      | 1        | 3080073 | 08/19/03 | 08/21/03 | EPA 8021B |       |
| ,1,2-Trichloroethane       | ND                      | 0.160              | 11        | 11       | tr      | n        | "        | n         |       |
| Trichloroethene            | ND                      | 0.500              | **        | **       | "       | n        | **       | 11        |       |
| Trichlorofluoromethane     | ND                      | 0.500              | tt        | n        | **      | "        | 11       | "         |       |
| ,2,4-Trimethylbenzene      | ND                      | 1.00               | 17        | **       | "       | 11       | "        | "         |       |
| ,3,5-Trimethylbenzene      | ND                      | 1.00               | **        | **       | 11      | n        | "        | n         |       |
| Vinyl chloride             | ND                      | 0.170              | n         | **       | н       | 11       | 11       | "         |       |
| Total Xylenes              | ND                      | 0.500              | 11        | 11       | n       | "        | 08/22/03 | "         |       |
| urrogate: 1-Cl-4-FB (ELCD) |                         | 95.0 %             | 76.3      | 3-154    | "       | "        | 08/21/03 | "         |       |
| Surrogate: 1-Cl-4-FB (PID) |                         | 93.8 %             | 71.1      | '-137    | "       | "        | "        | "         |       |

Great Lakes Analytical--Oak Creek



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Midwest Engineering Services

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Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Batch 3080073 - EPA 5030B (P/T) |        |                    |       |                |                  |             |                |     |              |       |
| Blank (3080073-BLK1)            |        |                    |       | Prepared       | & Analyze        | ed: 08/19/0 | 03             |     |              |       |
| Benzene                         | ND     | 0.500              | ug/l  | <u> </u>       |                  | *           |                |     |              |       |
| Bromobenzene                    | ND     | 0.500              | "     |                |                  |             |                |     |              |       |
| Bromodichloromethane            | ND     | 0.500              | n     |                |                  |             |                |     |              |       |
| n-Butylbenzene                  | ND     | 0.500              | "     |                |                  |             |                |     |              |       |
| sec-Butylbenzene                | ND     | 0.500              | н     |                |                  |             |                |     |              |       |
| ert-Butylbenzene                | ND     | 0.500              | н     |                |                  |             |                |     |              |       |
| Carbon tetrachloride            | ND     | 0.500              | 11    |                |                  |             |                |     |              |       |
| Chlorobenzene                   | ND     | 0.500              | 11    |                |                  |             |                |     |              |       |
| ∓hloroethane                    | ND     | 0.500              | 11    |                |                  |             |                |     |              |       |
| Chloroform                      | ND     | 0.140              | **    |                |                  |             |                |     |              |       |
| Chloromethane                   | ND     | 0.600              | "     |                |                  |             |                |     |              |       |
| 2-Chlorotoluene                 | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| -Chlorotoluene                  | ND     | 0.500              |       |                |                  |             |                |     |              |       |
| Dibromochloromethane            | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| _,2-Dibromo-3-chloropropane     | ND     | 0.390              | **    |                |                  |             |                |     |              |       |
| ,2-Dibromoethane                | ND     | 0.380              | "     |                |                  |             |                |     |              |       |
| 1,2-Dichlorobenzene             | ND     | 0.500              | 11    |                |                  |             |                |     |              |       |
| ,3-Dichlorobenzene              | ND     | 0.500              | 11    |                |                  |             |                |     |              |       |
| ,4-Dichlorobenzene              | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| Dichlorodifluoromethane         | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| , 1-Dichloroethane              | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| 7,2-Dichloroethane              | ND     | 0.500              | n     |                |                  |             |                |     |              |       |
| 1,1-Dichloroethene              | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| =is-1,2-Dichloroethene          | ND     | 0.500              | н     |                |                  |             |                |     |              |       |
| rans-1,2-Dichloroethene         | ND     | 0.500              | n     |                |                  |             |                |     |              |       |
| ,2-Dichloropropane              | ND     | 0.500              | н     |                |                  |             |                |     |              |       |
| ,3-Dichloropropane              | ND     | 0.500              | 11    |                |                  |             |                |     |              |       |
| ,2-Dichloropropane              | ND     | 0.500              | 19    |                |                  |             |                |     |              |       |
| Di-isopropyl ether              | ND     | 5.00               | 11    |                |                  |             |                |     |              |       |
| Ethylbenzene                    | ND     | 0.500              | "     |                |                  |             |                |     |              |       |
| lexachlorobutadiene             | ND     | 5.00               | **    |                |                  |             |                |     |              |       |
| rsopropylbenzene                | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| p-Isopropyltoluene              | ND     | 0.500              | **    |                |                  |             |                |     |              |       |
| 1ethylene chloride              | ND     | 0.530              | 11    |                |                  |             |                |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC       | %REC<br>Limits | RPD | RPD<br>Limit                            | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|------------|----------------|-----|---|-------|
| Batch 3080073 - EPA 5030B (P/T) |        |                    |       |                |                  |            |                |     |   |       |
| Blank (3080073-BLK1)            |        |                    |       | Prepared       | & Analyze        | ed: 08/19/ | 03             |     |   |       |
| Methyl tert-butyl ether         | ND     | 0.500              | ug/l  |                |                  |            |                |     |   |       |
| Naphthalene                     | ND     | 2.00               | ti    |                |                  |            |                |     |   |       |
| -Propylbenzene                  | ND     | 0.500              | н     |                |                  |            |                |     |   |       |
| 1,1,2,2-Tetrachloroethane       | ND     | 0.350              | 11    |                |                  |            |                |     |   |       |
| Tetrachloroethene               | ND     | 0.500              | 10    |                |                  |            |                |     |   |       |
| <b>C</b> oluene                 | ND     | 0.500              | 11    |                |                  |            |                |     |   |       |
| ,2,3-Trichlorobenzene           | ND     | 2.00               | 11    |                |                  |            |                |     |   |       |
| 1,2,4-Trichlorobenzene          | ND     | 2.00               | 11    |                |                  |            |                |     |   |       |
| _,1,1-Trichloroethane           | ND     | 0.500              | 11    |                |                  |            |                |     |   |       |
| ,1,2-Trichloroethane            | ND     | 0.160              | 11    |                |                  |            |                |     |   |       |
| Trichloroethene                 | ND     | 0.500              | 91    |                |                  |            |                |     |   |       |
| richlorofluoromethane           | ND     | 0.500              | **    |                |                  |            |                |     |   |       |
| ,2,4-Trimethylbenzene           | ND     | 1.00               | *1    |                |                  |            |                |     |   |       |
| 1,3,5-Trimethylbenzene          | ND     | 1.00               | #1    |                |                  |            |                |     |   |       |
| Jinyl chloride                  | ND     | 0.170              | **    |                |                  |            |                |     |   |       |
| Total Xylenes                   | ND     | 0.500              | n     |                |                  |            |                |     |   |       |
| Surrogate: 1-Cl-4-FB (ELCD)     | 10.3   |                    | "     | 10.0           |                  | 103        | 76.3-154       |     | , ,                                     |       |
| urrogate: 1-Cl-4-FB (PID)       | 10.1   |                    | "     | 10.0           |                  | 101        | 71.1-137       |     |   |       |
| LCS (3080073-BS1)               |        |                    |       | Prepared       | & Analyze        | ed: 08/19/ | 03             |     |   |       |
| Benzene                         | 10.0   | 0.500              | ug/l  | 10.0           | <u>-</u>         | 100        | 85-115         | -   | *************************************** |       |
| Bromobenzene                    | 10.8   | 0.500              | n     | 10.0           |                  | 108        | 85-115         |     |   | ,     |
| 3romodichloromethane            | 10.4   | 0.500              | n     | 10.0           |                  | 104        | 85-115         |     |   |       |
| n-Butylbenzene                  | 11.3   | 0.500              | н     | 10.0           |                  | 113        | 85-115         |     |   |       |
| ec-Butylbenzene                 | 10.4   | 0.500              | н     | 10.0           |                  | 104        | 85-115         |     |   |       |
| ert-Butylbenzene                | 10.9   | 0.500              | н     | 10.0           |                  | 109        | 85-115         |     |   |       |
| Carbon tetrachloride            | 10.0   | 0.500              | 17    | 10.0           |                  | 100        | 85-115         |     |   |       |
| Chlorobenzene                   | 9.96   | 0.500              | н     | 10.0           |                  | 99.6       | 85-115         |     |   |       |
| Chloroethane                    | 11.3   | 0.500              | н     | 10.0           |                  | 113        | 85-115         |     |   |       |
| Chloroform                      | 9.56   | 0.140              | n     | 10.0           |                  | 95.6       | 85-115         |     |   |       |
| Chloromethane                   | 20.0   | 0.600              | "     | 10.0           |                  | 200        | 85-115         |     |   | Н     |
| -Chlorotoluene                  | 10.4   | 0.500              | •     | 10.0           |                  | 104        | 85-115         |     |   |       |
| 4-Chlorotoluene                 | 11.0   | 0.500              | Ħ     | 10.0           |                  | 110        | 85-115         |     |   |       |
| Pibromochloromethane            | 11.0   | 0.500              | "     | 10.0           |                  | 110        | 85-115         |     |   |       |
| ,2-Dibromo-3-chloropropane      | 10.0   | 0.390              | "     | 10.0           |                  | 100        | 85-115         |     |   |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| -Analyte                        | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC       | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 3080073 - EPA 5030B (P/T) |        |                    |       |                |                  |            |                |     |              |       |
| LCS (3080073-BS1)               |        |                    |       | Prepared of    | & Analyze        | d: 08/19/0 | )3             |     |              |       |
| ,2-Dibromoethane                | 10.3   | 0.380              | ug/l  | 10.0           |                  | 103        | 85-115         |     |              |       |
| ,2-Dichlorobenzene              | 10.5   | 0.500              | **    | 10.0           |                  | 105        | 85-115         |     |              |       |
| ,3-Dichlorobenzene              | 10.4   | 0.500              | n     | 10.0           |                  | 104        | 85-115         |     |              |       |
| ,4-Dichlorobenzene              | 10.8   | 0.500              | 19    | 10.0           |                  | 108        | 85-115         |     |              |       |
| Dichlorodifluoromethane         | 8.18   | 0.500              | 11    | 10.0           |                  | 81.8       | 85-115         |     |              | L     |
| ,1-Dichloroethane               | 10.2   | 0.500              | 17    | 10.0           |                  | 102        | 85-115         |     |              |       |
| _,2-Dichloroethane              | 10.1   | 0.500              | **    | 10.0           |                  | 101        | 85-115         |     |              |       |
| 1,1-Dichloroethene              | 9.06   | 0.500              | n     | 10.0           |                  | 90.6       | 85-115         |     |              |       |
| is-1,2-Dichloroethene           | 10.8   | 0.500              | н     | 10.0           |                  | 108        | 85-115         |     |              |       |
| =ans-1,2-Dichloroethene         | 9.94   | 0.500              | u     | 10.0           |                  | 99.4       | 85-115         |     |              |       |
| 1,2-Dichloropropane             | 10.2   | 0.500              | 11    | 10.0           |                  | 102        | 85-115         |     |              |       |
| ,3-Dichloropropane              | 10.6   | 0.500              | **    | 10.0           |                  | 106        | 85-115         |     |              |       |
| ,2-Dichloropropane              | 10.2   | 0.500              | 19    | 10.0           |                  | 102        | 85-115         |     |              |       |
| Di-isopropyl ether              | 10.6   | 5.00               | **    | 10.0           |                  | 106        | 85-115         |     |              |       |
| Ethylbenzene                    | 9.60   | 0.500              | 11    | 10.0           |                  | 96.0       | 85-115         |     |              |       |
| ∃exachlorobutadiene             | 10.7   | 5.00               | "     | 10.0           |                  | 107        | 85-115         |     |              |       |
| Isopropylbenzene                | 10.6   | 0.500              | 11    | 10.0           |                  | 106        | 85-115         |     |              |       |
| -Isopropyltoluene               | 11.4   | 0.500              | "     | 10.0           |                  | 114        | 85-115         |     |              |       |
| -fethylene chloride             | 10.5   | 0.530              | **    | 10.0           |                  | 105        | 85-115         |     |              |       |
| Methyl tert-butyl ether         | 10.2   | 0.500              | "     | 10.0           |                  | 102        | 85-115         |     |              |       |
| Naphthalene                     | 10.8   | 2.00               | "     | 10.0           |                  | 108        | 85-115         |     |              |       |
| -Propylbenzene                  | 10.8   | 0.500              | "     | 10.0           |                  | 108        | 85-115         |     |              |       |
| 1,1,2,2-Tetrachloroethane       | 9.44   | 0.350              | "     | 10.0           |                  | 94.4       | 85-115         |     |              |       |
| Tetrachloroethene               | 10.3   | 0.500              | **    | 10.0           |                  | 103        | 85-115         |     |              |       |
| Toluene                         | 9.96   | 0.500              | **    | 10.0           |                  | 99.6       | 85-115         |     |              |       |
| ,2,3-Trichlorobenzene           | 11.0   | 2.00               | n     | 10.0           |                  | 110        | 85-115         |     |              |       |
| ,2,4-Trichlorobenzene           | 11.4   | 2.00               | н     | 10.0           |                  | 114        | 85-115         |     |              |       |
| ,1,1-Trichloroethane            | 9.95   | 0.500              | n     | 10.0           |                  | 99.5       | 85-115         |     |              |       |
| 1,1,2-Trichloroethane           | 10.5   | 0.160              | "     | 10.0           |                  | 105        | 85-115         |     |              |       |
| Trichloroethene                 | 10.1   | 0.500              | **    | 10.0           |                  | 101        | 85-115         |     |              |       |
| richlorofluoromethane           | 11.0   | 0.500              | n ·   | 10.0           |                  | 110        | 85-115         |     |              |       |
| ,2,4-Trimethylbenzene           | 11.4   | 1.00               | 19    | 10.0           |                  | 114        | 85-115         |     |              |       |
| 1,3,5-Trimethylbenzene          | 11.1   | 1.00               | 11    | 10.0           |                  | 111        | 85-115         |     |              |       |
| inyl chloride                   | 10.7   | 0.170              | **    | 10.0           |                  | 107        | 85-115         |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

## WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC       | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|------------|----------------|-----|--------------|-------|
| Batch 3080073 - EPA 5030B (P/T) |        |                    |       |                |                  |            |                |     |              |       |
| LCS (3080073-BS1)               |        |                    |       | Prepared       | & Analyze        | ed: 08/19/ | 03             |     |              |       |
| Total Xylenes                   | 31.7   | 0.500              | ug/l  | 30.0           |                  | 106        | 85-115         |     |              |       |
| Surrogate: 1-Cl-4-FB (ELCD)     | 9.71   |                    | "     | 10.0           |                  | 97.1       | 76.3-154       |     |              |       |
| Surrogate: 1-Cl-4-FB (PID)      | 9.97   |                    | "     | 10.0           |                  | 99.7       | 71.1-137       |     |              |       |
| Matrix Spike (3080073-MS1)      | So     | urce: W3080        | 76-05 | Prepared:      | 08/19/03         | Analyzed   | 1: 08/20/03    |     |              |       |
| Benzene                         | 10.7   | 0.500              | ug/l  | 10.0           | ND               | 107        | 62.7-132       |     |              |       |
| Bromobenzene                    | 10.0   | 0.500              | 11    | 10.0           | ND               | 100        | 65.3-122       |     |              |       |
| Bromodichloromethane            | 9.95   | 0.500              | "     | 10.0           | ND               | 99.5       | 53.7-162       |     |              |       |
| n-Butylbenzene                  | 10.2   | 0.500              | 17    | 10.0           | ND               | 102        | 58.1-126       |     |              |       |
| ec-Butylbenzene                 | 10.3   | 0.500              | tt    | 10.0           | ND               | 103        | 59.5-129       |     |              |       |
| tert-Butylbenzene               | 10.5   | 0.500              | 11    | 10.0           | ND               | 105        | 61.2-127       |     |              |       |
| Carbon tetrachloride            | 9.55   | 0.500              | 17    | 10.0           | ND               | 95.5       | 62.1-140       |     |              |       |
| Chlorobenzene                   | 9.58   | 0.500              | **    | 10.0           | ND               | 95.8       | 59.5-122       |     |              |       |
| thloroethane                    | 11.6   | 0.500              | 17    | 10.0           | ND               | 116        | 34.9-152       |     |              |       |
| Chloroform                      | 9.41   | 0.140              | **    | 10.0           | ND               | 94.1       | 61.5-135       |     |              |       |
| □hloromethane                   | 6.35   | 0.600              | 17    | 10.0           | ND               | 63.5       | 10-164         |     |              |       |
| -Chlorotoluene                  | 10.2   | 0.500              | **    | 10.0           | ND               | 102        | 57.8-141       |     |              |       |
| 4-Chlorotoluene                 | 10.4   | 0.500              | "     | 10.0           | ND               | 104        | 53.4-134       |     |              |       |
| ⊃ibromochloromethane            | 10.8   | 0.500              | **    | 10.0           | ND               | 108        | 63.3-145       |     |              |       |
| ,2-Dibromo-3-chloropropane      | 11.1   | 0.390              | 11    | 10.0           | ND               | 111        | 54.9-149       |     |              |       |
| 1,2-Dibromoethane               | 10.8   | 0.380              | 11    | 10.0           | ND               | 108        | 57.8-157       |     |              |       |
| ,2-Dichlorobenzene              | 10.4   | 0.500              | "     | 10.0           | ND               | 104        | 58.8-131       |     |              |       |
| ,3-Dichlorobenzene              | 9.91   | 0.500              | "     | 10.0           | ND               | 99.1       | 61.9-127       |     |              |       |
| 1,4-Dichlorobenzene             | 10.2   | 0.500              | "     | 10.0           | ND               | 102        | 63.6-125       |     |              |       |
| Dichlorodifluoromethane         | 6.82   | 0.500              | н     | 10.0           | ND               | 68.2       | 26.5-124       |     |              |       |
| ,1-Dichloroethane               | 9.71   | 0.500              | ıı    | 10.0           | ND               | 97.1       | 58.5-143       |     |              |       |
| 1,2-Dichloroethane              | 9.94   | 0.500              | "     | 10.0           | ND               | 99.4       | 57.3-157       |     |              |       |
| ,1-Dichloroethene               | 9.19   | 0.500              | **    | 10.0           | ND               | 91.9       | 63.5-128       |     |              |       |
| is-1,2-Dichloroethene           | 11.4   | 0.500              | "     | 10.0           | ND               | 114        | 64.6-130       |     |              |       |
| trans-1,2-Dichloroethene        | 9.95   | 0.500              | H.    | 10.0           | ND               | 99.5       | 63.6-127       |     |              |       |
| L2-Dichloropropane              | 9.78   | 0.500              | Ħ     | 10.0           | ND               | 97.8       | 60.5-147       |     |              |       |
| _3-Dichloropropane              | 10.6   | 0.500              | 11    | 10.0           | ND               | 106        | 64.8-147       |     |              |       |
| 2,2-Dichloropropane             | 9.37   | 0.500              | **    | 10.0           | ND               | 93.7       | 42.2-181       |     |              |       |
| Pi-isopropyl ether              | 10.9   | 5.00               | "     | 10.0           | ND               | 109        | 64.5-131       |     |              |       |
| thylbenzene                     | 9.42   | 0.500              | n     | 10.0           | ND               | 94.2       | 54.8-122       |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result  | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD   | RPD<br>Limit | Notes  |
|---------------------------------|---------|--------------------|-------|----------------|------------------|----------|----------------|-------|--------------|--------|
| Batch 3080073 - EPA 5030B (P/T) | 1100011 | 2311111            |       |                | 7100011          | 701420   |                |       |              | 110100 |
| Matrix Spike (3080073-MS1)      | Sou     | rce: W3080         | 76-05 | Prepared:      | 08/19/03         | Analyzeo | l: 08/20/03    |       |              |        |
| Hexachlorobutadiene             | 9.42    | 5.00               | ug/l  | 10.0           | ND               | 94.2     | 57.3-125       |       |              |        |
| sopropylbenzene                 | 10.0    | 0.500              | "     | 10.0           | ND               | 100      | 60.6-125       |       |              |        |
| o-Isopropyltoluene              | 9.93    | 0.500              | "     | 10.0           | ND               | 99.3     | 56.2-122       |       |              |        |
| Methylene chloride              | 10.3    | 0.530              | "     | 10.0           | ND               | 103      | 57.7-144       |       |              |        |
| Methyl tert-butyl ether         | 10.2    | 0.500              | **    | 10.0           | ND               | 102      | 61.4-134       |       |              |        |
| Naphthalene                     | 11.7    | 2.00               | ′ н   | 10.0           | ND               | 117      | 42.2-144       |       |              |        |
| -Propylbenzene                  | 10.3    | 0.500              | 11    | 10.0           | ND               | 103      | 61.2-131       |       |              |        |
| 1,1,2,2-Tetrachloroethane       | 9.79    | 0.350              | **    | 10.0           | ND               | 97.9     | 48.8-162       |       |              |        |
| Tetrachloroethene               | 9.92    | 0.500              | н     | 10.0           | ND               | 99.2     | 62.3-123       |       |              |        |
| Coluene                         | 10.9    | 0.500              | 11    | 10.0           | ND               | 109      | 68.6-126       |       |              |        |
| ,2,3-Trichlorobenzene           | 10.4    | 2.00               | 11    | 10.0           | ND               | 104      | 53.4-124       |       |              |        |
| ,2,4-Trichlorobenzene           | 9.42    | 2.00               | **    | 10.0           | ND               | 94.2     | 52.9-139       |       |              |        |
| ,1,1-Trichloroethane            | 9.89    | 0.500              | н     | 10.0           | ND               | 98.9     | 65.5-141       |       |              |        |
| ,1,2-Trichloroethane            | 10.4    | 0.160              | 11    | 10.0           | ND               | 104      | 66.9-142       |       |              |        |
| frichloroethene                 | 9.96    | 0.500              | n     | 10.0           | ND               | 99.6     | 67.2-132       |       |              |        |
| richlorofluoromethane           | 10.4    | 0.500              | 17    | 10.0           | ND               | 104      | 54.7-145       |       |              |        |
| ,2,4-Trimethylbenzene           | 10.1    | 1.00               | 11    | 10.0           | ND               | 101      | 52.6-129       |       |              |        |
| ,3,5-Trimethylbenzene           | 10.3    | 1.00               | 11    | 10.0           | ND               | 103      | 60.5-125       |       |              |        |
| inyl chloride                   | 7.61    | 0.170              | 11    | 10.0           | ND               | 76.1     | 59.3-132       |       |              |        |
| Total Xylenes                   | 30.8    | 0.500              | "     | 30.0           | ND               | 103      | 62.1-124       |       |              |        |
| urrogate: 1-Cl-4-FB (ELCD)      | 9.81    |                    | "     | 10.0           |                  | 98.1     | 76.3-154       |       |              |        |
| Surrogate: 1-Cl-4-FB (PID)      | 9.96    |                    | "     | 10.0           |                  | 99.6     | 71.1-137       |       |              |        |
| Matrix Spike Dup (3080073-MSD1) | Sou     | rce: W3080         | 76-05 | Prepared:      | 08/19/03         | Analyzed | 1: 08/20/03    |       |              |        |
| Benzene                         | 10.6    | 0.500              | ug/l  | 10.0           | ND               | 106      | 62.7-132       | 0.939 | 28.1         |        |
| Bromobenzene                    | 10.3    | 0.500              | n     | 10.0           | ND               | 103      | 65.3-122       | 2.96  | 31           |        |
| Bromodichloromethane            | 10.3    | 0.500              | "     | 10.0           | ND               | 103      | 53.7-162       | 3.46  | 34.8         |        |
| -Butylbenzene                   | 10.2    | 0.500              | "     | 10.0           | ND               | 102      | 58.1-126       | 0.00  | 32.2         |        |
| ec-Butylbenzene                 | 10.4    | 0.500              | "     | 10.0           | ND               | 104      | 59.5-129       | 0.966 | 29.9         |        |
| ert-Butylbenzene                | 10.7    | 0.500              | n     | 10.0           | ND               | 107      | 61.2-127       | 1.89  | 29.5         |        |
| Carbon tetrachloride            | 9.80    | 0.500              | 11    | 10.0           | ND               | 98.0     | 62.1-140       | 2.58  | 29           |        |
| hlorobenzene                    | 9.73    | 0.500              | "     | 10.0           | ND               | 97.3     | 59.5-122       | 1.55  | 26.9         |        |
| hloroethane                     | 12.1    | 0.500              | "     | 10.0           | ND               | 121      | 34.9-152       | 4.22  | 39           |        |
| `hloroform                      | 9.81    | 0.140              | **    | 10.0           | ND               | 98.1     | 61.5-135       | 4.16  | 28.1         |        |
| -hloromethane                   | 19.2    | 0.600              | 11    | 10.0           | ND               | 192      | 10-164         | 101   | 68.9         | НН     |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| -Analyte                        | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Batch 3080073 - EPA 5030B (P/T) |        |                    |       |                |                  |          |                |       |              |       |
| Matrix Spike Dup (3080073-MSD1) | So     | Source: W308076-05 |       |                | 08/19/03         | Analyzed |                |       |              |       |
| Z-Chlorotoluene                 | 10.6   | 0.500              | ug/l  | 10.0           | ND               | 106      | 57.8-141       | 3.85  | 43.7         |       |
| 4-Chlorotoluene                 | 10.6   | 0.500              | "     | 10.0           | ND               | 106      | 53.4-134       | 1.90  | 40.5         |       |
| Dibromochloromethane            | 10.6   | 0.500              | **    | 10.0           | ND               | 106      | 63.3-145       | 1.87  | 26.2         |       |
| 1,2-Dibromo-3-chloropropane     | 11.5   | 0.390              | "     | 10.0           | ND               | 115      | 54.9-149       | 3.54  | 36.1         |       |
| 1,2-Dibromoethane               | 10.6   | 0.380              | **    | 10.0           | ND               | 106      | 57.8-157       | 1.87  | 27.2         |       |
| ,2-Dichlorobenzene              | 11.1   | 0.500              | **    | 10.0           | ND               | 111      | 58.8-131       | 6.51  | 30.1         |       |
| ,3-Dichlorobenzene              | 10.1   | 0.500              | **    | 10.0           | ND               | 101      | 61.9-127       | 1.90  | 41.9         |       |
| 1,4-Dichlorobenzene             | 10.3   | 0.500              | "     | 10.0           | ND               | 103      | 63.6-125       | 0.976 | 28.6         |       |
| ⊃ichlorodifluoromethane         | 7.89   | 0.500              | "     | 10.0           | ND               | 78.9     | 26.5-124       | 14.5  | 61.2         |       |
| ,1-Dichloroethane               | 10.3   | 0.500              | "     | 10.0           | ND               | 103      | 58.5-143       | 5.90  | 29.8         |       |
| 1,2-Dichloroethane              | 10.2   | 0.500              | п     | 10.0           | ND               | 102      | 57.3-157       | 2.58  | 32.2         |       |
| ,1-Dichloroethene               | 9.09   | 0.500              | "     | 10.0           | ND               | 90.9     | 63.5-128       | 1.09  | 35           |       |
| =is-1,2-Dichloroethene          | 10.6   | 0.500              | "     | 10.0           | ND               | 106      | 64.6-130       | 7.27  | 28.4         |       |
| trans-1,2-Dichloroethene        | 10.1   | 0.500              | u     | 10.0           | ND               | 101      | 63.6-127       | 1.50  | 33           |       |
| ,2-Dichloropropane              | 10.2   | 0.500              | n     | 10.0           | ND               | 102      | 60.5-147       | 4.20  | 28           |       |
| ,3-Dichloropropane              | 10.5   | 0.500              | "     | 10.0           | ND               | 105      | 64.8-147       | 0.948 | 25.5         |       |
| 2,2-Dichloropropane             | 9.24   | 0.500              | "     | 10.0           | ND               | 92.4     | 42.2-181       | 1.40  | 39.3         |       |
| ⊃i-isopropyl ether              | 11.3   | 5.00               | **    | 10.0           | ND               | 113      | 64.5-131       | 3.60  | 30.9         |       |
| ∃thylbenzene                    | 9.50   | 0.500              | **    | 10.0           | ND               | 95.0     | 54.8-122       | 0.846 | 26.1         |       |
| Hexachlorobutadiene             | 9.44   | 5.00               | **    | 10.0           | ND               | 94.4     | 57.3-125       | 0.212 | 31.3         |       |
| sopropylbenzene                 | 10.3   | 0.500              | II .  | 10.0           | ND               | 103      | 60.6-125       | 2.96  | 29.8         |       |
| -Isopropyltoluene               | 9.83   | 0.500              | **    | 10.0           | ND               | 98.3     | 56.2-122       | 1.01  | 29.2         |       |
| Methylene chloride              | 10.4   | 0.530              | T     | 10.0           | ND               | 104      | 57.7-144       | 0.966 | 41.6         |       |
| Methyl tert-butyl ether         | 10.7   | 0.500              | **    | 10.0           | ND               | 107      | 61.4-134       | 4.78  | 34.8         |       |
| Vaphthalene                     | 10.6   | 2.00               | **    | 10.0           | ND               | 106      | 42.2-144       | 9.87  | 41.3         |       |
| n-Propylbenzene                 | 10.5   | 0.500              | н     | 10.0           | ND               | 105      | 61.2-131       | 1.92  | 26.1         |       |
| 1,1,2,2-Tetrachloroethane       | 10.3   | 0.350              | н     | 10.0           | ND               | 103      | 48.8-162       | 5.08  | 34.7         |       |
| Cetrachloroethene               | 11.4   | 0.500              | "     | 10.0           | ND               | 114      | 62.3-123       | 13.9  | 30.4         |       |
| Toluene                         | 10.3   | 0.500              | n     | 10.0           | ND               | 103      | 68.6-126       | 5.66  | 29.2         |       |
| 1,2,3-Trichlorobenzene          | 9.41   | 2.00               | "     | 10.0           | ND               | 94.1     | 53.4-124       | 9.99  | 34.7         |       |
| ,2,4-Trichlorobenzene           | 9.33   | 2.00               | **    | 10.0           | ND               | 93.3     | 52.9-139       | 0.960 | 31.8         |       |
| ,1,1-Trichloroethane            | 9.83   | 0.500              | 11    | 10.0           | ND               | 98.3     | 65.5-141       | 0.609 | 27.9         |       |
| 1,1,2-Trichloroethane           | 10.6   | 0.160              | 11    | 10.0           | ND               | 106      | 66.9-142       | 1.90  | 29           |       |
| _richloroethene                 | 10.7   | 0.500              | 11    | 10.0           | ND               | 107      | 67.2-132       | 7.16  | 36.7         |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

|        | Reporting  |   |                          | Spike Source %REC   |   |  |  | RPD  |   |
|--------|--|---|--------------------------|---|---|--|--|--|---|
| Result | Limit  | Units   | Level                    | Result  | %REC  | Limits   | RPD  | Limit  | Notes   |
|        |  |   |                          |   |   |  |  |  |   |
| Sour   | rce: W3080   | 76-05   | Prepared:                | 08/19/03  | Analyzed  | 1: 08/20/03  |  |  |   |
| 10.7   | 0.500  | ug/l  | 10.0                     | ND  | 107   | 54.7-145   | 2.84   | 34.6   |   |
| 9.56   | 1.00   | **  | 10.0                     | ND  | 95.6  | 52.6-129   | 5.49   | 34.8   |   |
| 9.90   | 1.00   | "   | 10.0                     | ND  | 99.0  | 60.5-125   | 3.96   | 28.3   |   |
| 8.24   | 0.170  | 11  | 10.0                     | ND  | 82.4  | 59.3-132   | 7.95   | 28.2   |   |
| 30.7   | 0.500  | **  | 30.0                     | ND  | 102   | 62.1-124   | 0.325  | 27.8   |   |
| 9.38   |  | <i>"</i>  | 10.0                     |   | 93.8  | 76.3-154   |  |  |   |
| 9.85   |  | "   | 10.0                     |   | 98.5  | 71.1-137   |  |  |   |
|        | Sour<br>10.7<br>9.56<br>9.90<br>8.24<br>30.7<br>9.38 | Source: W3080 10.7 0.500 9.56 1.00 9.90 1.00 8.24 0.170 30.7 0.500 9.38 | Source: W308076-05  10.7 | Source:         W308076-05         Prepared:           10.7         0.500         ug/l         10.0           9.56         1.00         "         10.0           9.90         1.00         "         10.0           8.24         0.170         "         10.0           30.7         0.500         "         30.0           9.38         "         10.0 | Source:         W308076-05         Prepared:         08/19/03           10.7         0.500         ug/1         10.0         ND           9.56         1.00         "         10.0         ND           9.90         1.00         "         10.0         ND           8.24         0.170         "         10.0         ND           30.7         0.500         "         30.0         ND           9.38         "         10.0 | Source:         W308076-05         Prepared:         08/19/03         Analyzed           10.7         0.500         ug/l         10.0         ND         107           9.56         1.00         "         10.0         ND         95.6           9.90         1.00         "         10.0         ND         99.0           8.24         0.170         "         10.0         ND         82.4           30.7         0.500         "         30.0         ND         102           9.38         "         10.0         93.8 | Source:         W308076-05         Prepared:         08/19/03         Analyzed:         08/20/03           10.7         0.500         ug/l         10.0         ND         107         54.7-145           9.56         1.00         "         10.0         ND         95.6         52.6-129           9.90         1.00         "         10.0         ND         99.0         60.5-125           8.24         0.170         "         10.0         ND         82.4         59.3-132           30.7         0.500         "         30.0         ND         102         62.1-124           9.38         "         10.0         93.8         76.3-154 | Source:         W308076-05         Prepared:         08/19/03         Analyzed:         08/20/03           10.7         0.500         ug/l         10.0         ND         107         54.7-145         2.84           9.56         1.00         "         10.0         ND         95.6         52.6-129         5.49           9.90         1.00         "         10.0         ND         99.0         60.5-125         3.96           8.24         0.170         "         10.0         ND         82.4         59.3-132         7.95           30.7         0.500         "         30.0         ND         102         62.1-124         0.325           9.38         "         10.0         93.8         76.3-154 | Source:         W308076-05         Prepared:         08/19/03         Analyzed:         08/20/03           10.7         0.500         ug/l         10.0         ND         107         54.7-145         2.84         34.6           9.56         1.00         "         10.0         ND         95.6         52.6-129         5.49         34.8           9.90         1.00         "         10.0         ND         99.0         60.5-125         3.96         28.3           8.24         0.170         "         10.0         ND         82.4         59.3-132         7.95         28.2           30.7         0.500         "         30.0         ND         102         62.1-124         0.325         27.8           9.38         "         10.0         93.8         76.3-154 |

Great Lakes Analytical--Oak Creek

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andrea Stathas, Project Manager



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Midwest Engineering Services

Project: 7-21058

205 Wilmont Dr. Waukesha WI, 53189 Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 08/25/03 15:04

#### Notes and Definitions

G13 The recovery of this analyte in the check standard is below the method specified acceptance criteria.

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source

method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

Great Lakes Analytical--Buffalo Grove Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek

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## regien, dogreperte nurse

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140 E. Ryan Read Oak Creek, WI 53154 (414) 570-9460 FAX (414) 570-9461

|  | ··· · · · · · · · · · · · · · · · · · |                |  | /_/               |                                 |
|--|---------------------------------------|----------------|--|-------------------|---------------------------------|
| Client: M.E.S,   | Bill To:                              | (Chan          |  |                   | AY 3 DAY 2 DAY 1 DAY < 24 H7\\$ |
| Address: 205 WILMONT PR.   | Address:                              |                | )  | YES - TAT is crit |                                 |
|  | <del></del>                           |                |  | Received:         | Qice   Temp. Up∮n Receipt:      |
| Report to: 1 0 Phone #: (262) 5215 7312  | State &                               | <del></del>    | Phone #: ( )   | ☐ ambient         | ge: Delivery Method:            |
| Report to: MINE RENKENDT Phone #: (262) 521-2112<br>E-mail: Fax #: (262) 521-212 | Program:                              | MI/MS          | Phone #: ( )<br>Fax #: ( )   | ☐ STD ☐ Oth       | er GLA Client Shipped Courier   |
| Project Name: 7-21058 Formalize Namy   | ′ /                                   | # of Bott      | tles   | / / / / / /       | / SAMPLE / CONTROL              |
| Project #/PO#: 7-2:050 / 8 /   | B/4 /                                 | / Preservative |  |                   | CONTROL                         |
| Sampler: PINO POHFELD, /44/4   |                                       |                |  | / /               | LABORATORY                      |
| Project #/PO#: 7-2:050  Sampler: Powerson  FIELD ID, LOCATION                    | LECTE SAMPLE TO SAMPLE                |                |  | ' / / / / / /     | /&\$/\&\$/ ID NUMBER            |
| 1 MW-7 nuce 1:15   | NATION                                |                | tles Survey Surv |                   |                                 |
|  |                                       | 71-1-1         |  |                   | W308148-01                      |
| 2 MW- 9 1240   |                                       | 3              | 3   X  |                   |                                 |
|  |                                       |                |  |                   |                                 |
| PID:   |                                       | 3              | 3    X   |                   | 3                               |
| 4 MW-103   | 1/                                    | 3              | 3 X  |                   |                                 |
| PID: [1.10]  | 14-                                   |                |  |                   | <del></del>                     |
| PID:   |                                       |                |  |                   |                                 |
| 6  |                                       |                |  |                   |                                 |
| PID:   |                                       |                |  |                   |                                 |
| 7  |                                       |                |  |                   |                                 |
| PID:   |                                       |                |  |                   |                                 |
| 8  |                                       |                |  |                   |                                 |
| 9 PID:   |                                       | <del></del>    |  |                   |                                 |
| PID:   |                                       |                |  |                   |                                 |
| 10   |                                       |                |  |                   |                                 |
|  | 11/                                   |                |  |                   |                                 |
| RELINGUISHED STOREGETVED   | ALAKIT                                | 8/1903 RE      | LINQUISHED   | 8/5/3 RECEIVED    | 08/15/0                         |
| RELINQUISHED RECEIVED  | 7400                                  |                | LINQUISHED   | RECEIVED          | MANUA 14/2                      |
| L L  | <u> </u>                              |                |  |                   |                                 |
| COMMENTS:  |                                       |                |  |                   | 1                               |
|  |                                       |                |  |                   | PAGE OF                         |



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Midwest Engineering Services

205 Wilmont Dr.

Waukesha WI, 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported:

07/10/02 18:45

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW-102    | W206261-01    | Water  | 06/27/02 15:10 | 06/28/02 14:33 |
| MW-103    | W206261-02    | Water  | 06/27/02 15:20 | 06/28/02 14:33 |
| MW-7      | W206261-03    | Water  | 06/27/02 15:40 | 06/28/02 14:33 |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha WI, 53189

Project: 7-21058

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

## WDNR Volatile Organic Compounds by Method 8021

### Great Lakes Analytical--Oak Creek

| i                           | Bounding                |                    |            |          |         |          |          |            |       |  |  |
|-----------------------------|-------------------------|--------------------|------------|----------|---------|----------|----------|------------|-------|--|--|
| Analyte                     | Result                  | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |  |  |
| MW-102 (W206261-01) Water   | Sampled: 06/27/02 15:10 | Received           | d: 06/28/0 | 2 14:33  |         |          |          |            | QC    |  |  |
| Benzene                     | 2.38                    | 0.500              | ug/l       | 1        | 2070003 | 07/01/02 | 07/03/02 | EPA 8021B  |       |  |  |
| Bromobenzene                | ND                      | 0.500              | "          | "        | **      | "        | "        | 11         |       |  |  |
| Bromodichloromethane        | ND                      | 0.500              | "          | н        | 11      | "        | "        | 11         |       |  |  |
| n-Butylbenzene              | ND                      | 0.500              | "          | **       | **      | **       | n        | "          |       |  |  |
| sec-Butylbenzene            | ND                      | 0.500              | ,,         | tt.      | **      | "        | **       | "          |       |  |  |
| tert-Butylbenzene           | ND                      | 0.500              | "          | n        | "       | "        | "        | **         |       |  |  |
| Carbon tetrachloride        | ND                      | 0.500              | *          | н        | "       | "        | **       | **         |       |  |  |
| Chlorobenzene               | ND                      | 0.500              | "          | tt       | **      | "        | n        | 11         |       |  |  |
| Chloroethane                | ND                      | 0.500              | **         | **       | "       | "        | "        |            |       |  |  |
| Chloroform                  | ND                      | 0.140              | "          | II.      | **      | "        | rt       | **         |       |  |  |
| Chloromethane               | · ND                    | 0.600              | "          | **       | "       | **       | 11       | "          |       |  |  |
| 2-Chlorotoluene             | ND                      | 0.500              | **         | **       | "       | "        | "        | u .        |       |  |  |
| 4-Chlorotoluene             | ND                      | 0.500              | **         | u        | **      | "        | "        | 11         |       |  |  |
| Dibromochloromethane        | ND                      | 0.500              | **         | н        | **      | "        | "        | "          |       |  |  |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.390              | "          | н        | **      | **       | "        | **         |       |  |  |
| 1,2-Dibromoethane           | ND                      | 0.380              | tr         | U        | **      | **       | •        | 11         |       |  |  |
| 1,2-Dichlorobenzene         | ND                      | 0.500              | "          | "        | **      | 11       | **       | 11         |       |  |  |
| 1,3-Dichlorobenzene         | ND                      | 0.500              | 11         | u        | **      | 11       | n        | 11         |       |  |  |
| 1,4-Dichlorobenzene         | ND                      | 0.500              | "          | **       | 11      | 11       | **       | Ħ          |       |  |  |
| Dichlorodifluoromethane     | ND                      | 0.500              | 11         | **       | 11      | 11       | Ħ        | n          |       |  |  |
| 1,1-Dichloroethane          | 1.02                    | 0.500              | **         | **       | 11      | 11       | н        | <b>u</b> . |       |  |  |
| 1,2-Dichloroethane          | 0.672                   | 0.500              | Ħ          | **       | 11      | 17       | **       | 11         |       |  |  |
| 1,1-Dichloroethene          | ND                      | 0.500              | **         | **       | **      | n        | 11       | **         |       |  |  |
| cis-1,2-Dichloroethene      | 11.9                    | 0.500              | н          | 11       | **      | n.       | **       | **         |       |  |  |
| trans-1,2-Dichloroethene    | 1.28                    | 0.500              | н          | 11       | **      | 11       | u u      | 11         |       |  |  |
| 1,2-Dichloropropane         | ND                      | 0.500              | II .       | 11       | 11      | H .      | **       | **         |       |  |  |
| 1,3-Dichloropropane         | ND                      | 0.500              | и          | **       | Ħ       | U        | **       | 11         |       |  |  |
| 2,2-Dichloropropane         | ND                      | 0.500              | **         | **       | н       | H        | **       | 11         |       |  |  |
| Di-isopropyl ether          | ND                      | 5.00               | n          | 11       | "       | n        | 11       | 11         |       |  |  |
| Ethylbenzene                | 8.79                    | 0.500              | н          | 11       | "       | H        | n        | н          |       |  |  |
| Hexachlorobutadiene         | ND                      | 5.00               | н          | **       | **      | tr.      | 11       | H :        |       |  |  |
| Isopropylbenzene            | 2.40                    | 0.500              |            | **       | "       | H        | **       | 11         |       |  |  |
| p-Isopropyltoluene          | 17.4                    | 0.500              | н          | 11       | "       | H        | **       | Ħ          |       |  |  |
| Methylene chloride          | ND                      | 0.530              | *1         | **       | **      | "        | H        | 19         |       |  |  |
| Methyl tert-butyl ether     | 2.55                    | 0.500              | н          | **       | **      | "        | 11       | Ħ          |       |  |  |
| Naphthalene                 | ND                      | 2.00               | **         | Ħ        | **      | "        | 11       | "          |       |  |  |
| n-Propylbenzene             | 1.99                    | 0.500              | **         | 11       | "       | "        | н        | H .        |       |  |  |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.350              | н          | #        | **      | "        | н        | **         |       |  |  |
| Tetrachloroethene           | ND                      | 0.500              | **         | **       | **      | "        | н        |            |       |  |  |
| Toluene                     | ND                      | 0.500              | н          | **       | **      | "        | 11       | "          |       |  |  |
| 1,2,3-Trichlorobenzene      | ND                      | 2.00               | **         | "        | 11      | 11       | 11       |            |       |  |  |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

Project: 7-21058

205 Wilmont Dr. Waukesha WI, 53189 Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

# WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical—Oak Creek

|                             | Great                   | Lakes A            | Analyti   | icalOa   | k Creek | <u> </u> |          | <u></u>   |       |
|-----------------------------|-------------------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| Analyte                     | Result                  | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
| MW-102 (W206261-01) Water   | Sampled: 06/27/02 15:10 | Receive            | d: 06/28/ | 02 14:33 |         |          |          |           | QC    |
| 1,2,4-Trichlorobenzene      | ND                      | 2.00               | ug/l      | 1        | 2070003 | 07/01/02 | 07/03/02 | EPA 8021B |       |
| 1,1,1-Trichloroethane       | 1.88                    | 0.500              | **        | "        | н       | n        | "        | **        |       |
| 1,1,2-Trichloroethane       | ND                      | 0.160              | 11        | u        | "       | "        | n        | 11        |       |
| Trichloroethene             | 24.2                    | 0.500              | **        | n        | "       | "        | **       | If        |       |
| Trichlorofluoromethane      | ND                      | 0.500              | **        | 11       | **      | "        | **       | Ħ         |       |
| 1,2,4-Trimethylbenzene      | ND                      | 1.00               | **        | n        | "       | "        | **       | **        |       |
| 1,3,5-Trimethylbenzene      | ND                      | 1.00               | "         | "        | H       | 11       | **       | **        |       |
| Vinyl chloride              | ND                      | 0.170              | **        | "        | H       | 11       |          | II .      |       |
| Total Xylenes               | 1.37                    | 0.500              | **        |          | н       | n        | "        | 11        |       |
| Surrogate: 1-Cl-4-FB (ELCD) |                         | 105 %              | 80-       | -120     | "       | "        | "        | n         |       |
| Surrogate: 1-Cl-4-FB (PID)  |                         | 87.6%              |           | -120     | "       | "        | "        | "         |       |
| MW-103 (W206261-02) Water   | Sampled: 06/27/02 15:20 | Receive            | d: 06/28/ | 02 14:33 |         |          |          |           | QC    |
| Benzene                     | ND                      | 0.500              | ug/l      | 1        | 2070003 | 07/01/02 | 07/03/02 | EPA 8021B |       |
| Bromobenzene                | ND                      | 0.500              | 11        | **       | u       | "        |          |           |       |
| Bromodichloromethane        | ND                      | 0.500              | H         | "        | 0       | "        |          | u         |       |
| n-Butylbenzene              | ND                      | 0.500              | 11        | **       | **      |          | **       | n         |       |
| sec-Butylbenzene            | ND                      | 0.500              | **        | 11       | "       | "        | "        |           |       |
| tert-Butylbenzene           | ND                      | 0.500              | "         | **       | **      | 11       |          | 11        |       |
| Carbon tetrachloride        | ND                      | 0.500              | "         |          |         | 11       | 11       | n         |       |
| Chlorobenzene               | ND                      | 0.500              | 11        | **       | H       | "        | н        | n         |       |
| Chloroethane                | ND                      | 0.500              | **        | **       | **      | **       | **       | 11        |       |
| Chloroform                  | ND                      | 0.140              |           | **       | н       | **       | 11       | н         |       |
| Chloromethane               | ND                      | 0.600              | 11        |          | *1      | ıı       | 11       | **        |       |
| 2-Chlorotoluene             | ND                      | 0.500              | 11        | **       | **      | "        | 11       | 11        |       |
| 4-Chlorotoluene             | ND                      | 0.500              | 11        |          | **      | "        | "        | 11        |       |
| Dibromochloromethane        | ND                      | 0.500              | 11        | 11       | "       | н        | 11       | 11        |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.390              |           | 11       |         | "        | 11       | H         |       |
| 1,2-Dibromoethane           | ND                      | 0.380              | **        | 11       | "       | n        | ŧr       | "         |       |
| 1,2-Dichlorobenzene         | ND                      | 0.500              | **        |          | **      | "        |          | 11        |       |
| 1,3-Dichlorobenzene         | ND                      | 0.500              | 11        | "        | **      | 11       |          | 11        |       |
| 1,4-Dichlorobenzene         | ND                      | 0.500              | н         | **       | "       | **       | н        | **        |       |
| Dichlorodifluoromethane     | ND                      | 0.500              | **        | н        | н       | "        | Ħ        | **        |       |
| 1,1-Dichloroethane          | ND                      | 0.500              | "         | "        | **      | **       | **       |           |       |
| 1,2-Dichloroethane          | ND                      | 0.500              | 11        | **       | **      | Ħ        | **       | **        |       |
| 1,1-Dichloroethene          | ND                      | 0.500              | **        | **       | "       | 11       | 11       | **        |       |
| cis-1,2-Dichloroethene      | ND                      | 0.500              | 11        | 17       | "       | Ħ        | **       |           |       |
| trans-1,2-Dichloroethene    | ND                      | 0.500              | 11        | **       | "       | "        | n        | "         |       |
| 1,2-Dichloropropane         | ND                      | 0.500              | **        | 11       | н       | **       | **       | **        |       |
| 1,3-Dichloropropane         | ND                      | 0.500              | **        |          | н       | **       | •        | **        |       |
| 0.0 D'-11                   | ND                      | 0.500              | .,        | 10       | **      |          | ,,       |           |       |

Great Lakes Analytical--Oak Creek

2,2-Dichloropropane

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andrea Stathas

ND

0.500



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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

## WDNR Volatile Organic Compounds by Method 8021

### Great Lakes Analytical--Oak Creek

| Analyte                     | I<br>Result             | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| MW-103 (W206261-02) Water   | Sampled: 06/27/02 15:20 | Received           | d: 06/28/ | 02 14:33 |         |          |          |           | QC    |
| Di-isopropyl ether          | ND                      | 5.00               | ug/l      | 1        | 2070003 | 07/01/02 | 07/03/02 | EPA 8021B |       |
| Ethylbenzene                | ND                      | 0.500              | н         | n        | "       | "        | 11       | "         |       |
| Hexachlorobutadiene         | ND                      | 5.00               | n         | Ħ        | "       | u.       | "        | "         |       |
| Isopropylbenzene            | ND                      | 0.500              | Ħ         | "        | **      | 11       | "        | н         |       |
| p-Isopropyltoluene          | ND                      | 0.500              | n         | "        | H       | "        |          | **        |       |
| Methylene chloride          | ND                      | 0.530              | 11        | "        | **      | 11       | "        | n         |       |
| Methyl tert-butyl ether     | ND                      | 0.500              | "         | "        | 11      | 11       | "        | n         |       |
| Naphthalene                 | ND                      | 2.00               | "         | "        | 11      | Ħ        | **       | <b>"</b>  |       |
| n-Propylbenzene             | ND                      | 0.500              | "         | **       | **      | н        |          | 11        |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.350              | 11        | "        | 11      | *1       | **       | 11        |       |
| Tetrachloroethene           | ND                      | 0.500              | **        | н        | **      | "        | **       | 11        |       |
| Toluene                     | ND                      | 0.500              | **        | **       | "       | "        | n        | "         |       |
| 1,2,3-Trichlorobenzene      | ND                      | 2.00               | **        | 11       | "       | "        | **       | n         |       |
| 1,2,4-Trichlorobenzene      | ND                      | 2.00               | н         | 11       | "       | "        | **       | n i       |       |
| 1,1,1-Trichloroethane       | ND                      | 0.500              | н         | 11       | "       | **       | **       | 11        |       |
| 1,1,2-Trichloroethane       | ND                      | 0.160              | **        | "        | "       | "        | n        | II .      |       |
| Trichloroethene             | ND                      | 0.500              | **        | 11       | "       | "        | H        | H         |       |
| Trichlorofluoromethane      | ND                      | 0.500              | н         | н        | "       | "        | n        | и .       |       |
| 1,2,4-Trimethylbenzene      | ND                      | 1.00               | **        | 11       | Ħ       | **       | n        | н         |       |
| 1,3,5-Trimethylbenzene      | ND                      | 1.00               | **        | n        |         | "        | Ħ        | n         |       |
| Vinyl chloride              | ND                      | 0.170              | **        | **       | "       | **       |          | H         |       |
| Total Xylenes               | ND                      | 0.500              | 11        | Ħ        | "       | Ħ        |          |           |       |
| Surrogate: 1-Cl-4-FB (ELCD) | <del></del>             | 107 %              | 80        | -120     | "       | "        | "        | "         |       |
| Surrogate: 1-Cl-4-FB (PID)  |                         | 96.8 %             | 80        | -120     | "       | "        | "        | "         |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical--Oak Creek

| Analyte                     | Result                  | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| MW-7 (W206261-03) Water     | Sampled: 06/27/02 15:40 | Received:          | 06/28/02 | 14:33    |         |          |          |           | QC    |
| Benzene                     | ND                      | 0.500              | ug/l     | 1        | 2070003 | 07/01/02 | 07/03/02 | EPA 8021B |       |
| Bromobenzene                | ND                      | 0.500              | er       | "        | **      | "        | **       | H         |       |
| Bromodichloromethane        | ND                      | 0.500              | Ħ        | "        | "       | 'n       | **       | Ħ         |       |
| n-Butylbenzene              | ND                      | 0.500              | 11       | "        | 11      | 11       | н        | n         |       |
| sec-Butylbenzene            | ND                      | 0.500              | Ħ        | n        | **      | **       | 11       | 11        |       |
| tert-Butylbenzene           | ND                      | 0.500              | 11       | n        | 11      | "        | n        | 11        |       |
| Carbon tetrachloride        | ND                      | 0.500              | 11       | 11       | "       | "        | rı       | 11        |       |
| Chlorobenzene               | ND                      | 0.500              | **       | 11       | "       | **       | **       |           |       |
| Chloroethane                | ND                      | 0.500              |          | "        | "       | "        | Ħ        | · ·       |       |
| Chloroform                  | ND                      | 0.140              | **       | "        | "       | **       | **       | "         |       |
| Chloromethane               | ND                      | 0.600              | 11       | "        | н       | tt       | 11       | **        |       |
| 2-Chlorotoluene             | ND                      | 0.500              | н        | H        | 11      | Ħ        | •        | "         |       |
| 4-Chlorotoluene             | ND                      | 0.500              | **       | n        | н       | п        | "        | **        |       |
| Dibromochloromethane        | ND                      | 0.500              | #        | n        | 10      | 11       | "        | **        |       |
| 1,2-Dibromo-3-chloropropane | ND                      | 0.390              | 11       | H        | n       | Ħ        |          | **        |       |
| 1,2-Dibromoethane           | ND                      | 0.380              | 11       | н        | 11      | н        | **       | n         |       |
| 1,2-Dichlorobenzene         | ND                      | 0.500              | **       | n        | 11      | 11       | **       | n         |       |
| 1,3-Dichlorobenzene         | ND                      | 0.500              |          | 19       | 11      | 11       |          | 11        |       |
| 1,4-Dichlorobenzene         | ND                      | 0.500              | "        | Ħ        | н       | 11       |          | н         |       |
| Dichlorodifluoromethane     | ND                      | 0.500              | "        | н        | 19      | tt       | 11       | и         |       |
| 1.1-Dichloroethane          | ND                      | 0.500              | "        | н        | н       | 11       |          | u.        |       |
| 1,2-Dichloroethane          | 3.88                    | 0.500              | **       | н        | н       | rr       | **       |           |       |
| 1.1-Dichloroethene          | 1.71                    | 0.500              | **       | 11       | H       | н        | 11       | •         |       |
| cis-1,2-Dichloroethene      | 0.538                   | 0.500              | 11       | **       | H       | **       | n        | "         |       |
| trans-1,2-Dichloroethene    | ND                      | 0.500              | "        | II       | н       | . 11     | n        | "         |       |
| 1,2-Dichloropropane         | ND                      | 0.500              |          | 11       | н       | 11       | 11       | •         |       |
| 1,3-Dichloropropane         | ND                      | 0.500              |          | 11       | 11      | #        | 89       | "         |       |
| 2,2-Dichloropropane         | ND                      | 0.500              | ,,       | н        | н       | 11       | *1       | 11        |       |
| Di-isopropyl ether          | ND<br>ND                | 5.00               | "        | 11       | 11      | , н      | н        | "         |       |
| Ethylbenzene                | ND                      | 0.500              |          | 11       | 19      | п        | Ħ        | •         |       |
| Hexachlorobutadiene         | ND<br>ND                | 5.00               | н        | 11       | 11      | 11       | Ħ        |           |       |
| Isopropylbenzene            | ND<br>ND                | 0.500              | н        | 11       | 19      | 11       | н        | 11        |       |
| p-Isopropyltoluene          | ND<br>ND                | 0.500              | "        | 11       | 19      | ti       | н        |           |       |
|                             |                         |                    | н        |          | 11      | 11       | **       | "         |       |
| Methylene chloride          | ND                      | 0.530<br>0.500     | "        | 11       | 11      | 11       | н        | 11        |       |
| Methyl tert-butyl ether     | 0.993                   |                    |          | "        | 11      | #        | н        |           |       |
| Naphthalene                 | ND                      | 2.00               | ,,       | "        |         | <br>H    | <br>It   | "         |       |
| n-Propylbenzene             | ND                      | 0.500              | "        | "        | "       | 11       | "        | "         |       |
| 1,1,2,2-Tetrachloroethane   | ND                      | 0.350              | " "      | "        | "       | 11       | "        |           |       |
| Tetrachloroethene           | 1.64                    | 0.500              | "        | "        | " "     | "        | и        | "         |       |
| Toluene                     | ND                      | 0.500              |          | "        | "       | "        | n<br>H   | "         |       |
| 1,2,3-Trichlorobenzene      | ND                      | 2.00               | **       | "        | 11      | **       | "        | 11        |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha WI, 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

## WDNR Volatile Organic Compounds by Method 8021

### **Great Lakes Analytical--Oak Creek**

| Analyte                     | Result                  | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|-------------------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| MW-7 (W206261-03) Water     | Sampled: 06/27/02 15:40 | Received:          | 06/28/02 | 14:33    |         |          |          |           | QC    |
| 1,2,4-Trichlorobenzene      | ND                      | 2.00               | ug/l     | 1        | 2070003 | 07/01/02 | 07/03/02 | EPA 8021B |       |
| 1,1,1-Trichloroethane       | 73.8                    | 5.00               | **       | 10       | 11      | **       | 07/05/02 | II .      |       |
| 1,1,2-Trichloroethane       | ND                      | 0.160              | "        | 1        | н       | Ħ        | 07/03/02 | H         |       |
| Trichloroethene             | 83.4                    | 5.00               | 11       | 10       | n       | **       | 07/05/02 | II .      |       |
| Trichlorofluoromethane      | ND                      | 0.500              | *        | 1        |         | "        | 07/03/02 |           |       |
| 1,2,4-Trimethylbenzene      | ND                      | 1.00               | н        | "        | **      | n        | n        | **        |       |
| 1,3,5-Trimethylbenzene      | ND                      | 1.00               | u.       | "        | **      | "        | "        | 11        |       |
| Vinyl chloride              | ND                      | 0.170              | **       | "        | ***     | 11       | "        | 11        |       |
| Total Xylenes               | ND                      | 0.500              | "        | 11       | **      | **       | •        | 11        |       |
| Surrogate: 1-Cl-4-FB (ELCD) |                         | 99.1 %             | 80-      | 120      | "       | "        | "        | "         |       |
| Surrogate: 1-Cl-4-FB (PID)  |                         | 98.1 %             | 80-      | 120      | "       | "        | "        | n         |       |

Great Lakes Analytical--Oak Creek

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205 Wilmont Dr.

Project: 7-21058

Project Number: 7-21058

Reported: 07/10/02 18:45

Waukesha WI, 53189

Project Manager: Mike Rehfeldt

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

|         |        | Reporting |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit     | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Blank (2070003-BLK1)       |    |       |      | Prepared & Analyzed: 07/01/02 |
|----------------------------|----|-------|------|-------------------------------|
| Benzene                    | ND | 0.500 | ug/l |                               |
| Bromobenzene               | ND | 0.500 | "    |                               |
| Bromodichloromethane       | ND | 0.500 | "    |                               |
| n-Butylbenzene             | ND | 0.500 | "    |                               |
| sec-Butylbenzene           | ND | 0.500 | "    |                               |
| tert-Butylbenzene          | ND | 0.500 | **   |                               |
| Carbon tetrachloride       | ND | 0.500 | n    |                               |
| Chlorobenzene              | ND | 0.500 | н    |                               |
| Chloroethane               | ND | 0.500 | н .  |                               |
| Chloroform                 | ND | 0.140 | n    |                               |
| Chloromethane              | ND | 0.600 | n    |                               |
| 2-Chlorotoluene            | ND | 0.500 | "    |                               |
| 1-Chlorotoluene            | ND | 0.500 | и    |                               |
| Dibromochloromethane       | ND | 0.500 | Ħ    |                               |
| ,2-Dibromo-3-chloropropane | ND | 0.390 | "    |                               |
| ,2-Dibromoethane           | ND | 0.380 | 11   |                               |
| ,2-Dichlorobenzene         | ND | 0.500 | 11   |                               |
| ,3-Dichlorobenzene         | ND | 0.500 | "    |                               |
| 1,4-Dichlorobenzene        | ND | 0.500 | **   |                               |
| Dichlorodifluoromethane    | ND | 0.500 | . "  |                               |
| ,1-Dichloroethane          | ND | 0.500 | 11   |                               |
| ,2-Dichloroethane          | ND | 0.500 | 11   |                               |
| ,1-Dichloroethene          | ND | 0.500 | 11   |                               |
| cis-1,2-Dichloroethene     | ND | 0.500 | **   |                               |
| rans-1,2-Dichloroethene    | ND | 0.500 | 11   |                               |
| ,2-Dichloropropane         | ND | 0.500 | 11   |                               |
| ,3-Dichloropropane         | ND | 0.500 | "    |                               |
| 2,2-Dichloropropane        | ND | 0.500 | 11   |                               |
| Di-isopropyl ether         | ND | 5.00  | н    |                               |
| Ethylbenzene               | ND | 0.500 | н    |                               |
| Hexachlorobutadiene        | ND | 5.00  | "    |                               |
| sopropylbenzene            | ND | 0.500 | "    |                               |
| -Isopropyltoluene          | ND | 0.500 | "    |                               |
| Methylene chloride         | ND | 0.530 | "    |                               |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058
Project Manager: Mike Rehfeldt

Reported:

07/10/02 18:45

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit                    | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|---------------------------------------|-------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Batch 2070003 - EPA 5030B (P/T) |        |                                       |       |                |                  |             |                |     |              |       |
| Blank (2070003-BLK1)            |        |                                       |       | Prepared       | & Analyze        | ed: 07/01/0 | )2             |     |              |       |
| Methyl tert-butyl ether         | ND     | 0.500                                 | ug/l  |                |                  |             |                |     |              |       |
| Naphthalene                     | ND     | 2.00                                  | н     |                |                  |             |                |     |              |       |
| n-Propylbenzene                 | ND     | 0.500                                 | "     |                |                  |             |                |     |              |       |
| 1,1,2,2-Tetrachloroethane       | ND     | 0.350                                 | H     |                |                  |             |                |     |              |       |
| Tetrachloroethene               | ND     | 0.500                                 | Ħ     |                |                  |             |                |     |              |       |
| Toluene                         | ND     | 0.500                                 | Ħ     |                |                  |             |                |     |              |       |
| 1,2,3-Trichlorobenzene          | ND     | 2.00                                  | 11    |                |                  |             |                |     |              |       |
| 1,2,4-Trichlorobenzene          | ND     | 2.00                                  | "     |                |                  |             |                |     |              |       |
| 1,1,1-Trichloroethane           | ND     | 0.500                                 | **    |                |                  |             |                |     |              |       |
| 1,1,2-Trichloroethane           | ND     | 0.160                                 | "     |                |                  |             |                |     |              |       |
| Trichloroethene                 | ND     | 0.500                                 | **    |                |                  |             |                |     |              |       |
| Trichlorofluoromethane          | ND     | 0.500                                 | **    |                |                  |             |                |     |              |       |
| 1,2,4-Trimethylbenzene          | ND     | 1.00                                  | **    |                |                  |             |                |     |              | •     |
| 1,3,5-Trimethylbenzene          | ND     | 1.00                                  | H     |                |                  |             |                |     |              |       |
| Vinyl chloride                  | ND     | 0.170                                 | n .   |                |                  |             |                |     |              |       |
| Total Xylenes                   | ND     | 0.500                                 | n     |                |                  |             |                |     |              |       |
| Surrogate: 1-Cl-4-FB (ELCD)     | 11.9   | · · · · · · · · · · · · · · · · · · · | "     | 10.0           |                  | 119         | 80-120         |     |              |       |
| Surrogate: 1-Cl-4-FB (PID)      | 9.94   |                                       | "     | 10.0           |                  | 99.4        | 80-120         |     |              |       |
| LCS (2070003-BS1)               |        |                                       |       | Prepared       | & Analyze        | ed: 07/01/0 | 02             |     |              |       |
| Benzene                         | 10.9   | 0.500                                 | ug/l  | 10.0           |                  | 109         | 85-115         |     |              |       |
| Bromobenzene                    | 10.1   | 0.500                                 | "     | 10.0           |                  | 101         | 85-115         |     |              |       |
| Bromodichloromethane            | 9.50   | 0.500                                 | "     | 10.0           |                  | 95.0        | 85-115         |     |              |       |
| n-Butylbenzene                  | 10.3   | 0.500                                 | "     | 10.0           |                  | 103         | 85-115         |     |              |       |
| sec-Butylbenzene                | 11.1   | 0.500                                 | "     | 10.0           |                  | 111         | 85-115         |     |              |       |
| tert-Butylbenzene               | 10.1   | 0.500                                 | "     | 10.0           |                  | 101         | 85-115         |     |              |       |
| Carbon tetrachloride            | 10.5   | 0.500                                 | "     | 10.0           |                  | 105         | 85-115         |     |              |       |
| Chlorobenzene                   | 10.9   | 0.500                                 | "     | 10.0           |                  | 109         | 85-115         |     |              |       |
| Chloroethane                    | 10.9   | 0.500                                 | **    | 10.0           |                  | 109         | 85-115         |     |              |       |
| Chloroform                      | 10.3   | 0.140                                 | "     | 10.0           |                  | 103         | 85-115         |     |              |       |
| Chloromethane                   | 8.96   | 0.600                                 | 11    | 10.0           |                  | 89.6        | 85-115         |     |              |       |
| 2-Chlorotoluene                 | 11.1   | 0.500                                 | "     | 10.0           |                  | 111         | 85-115         |     |              |       |
| 4-Chlorotoluene                 | 10.2   | 0.500                                 | 11    | 10.0           |                  | 102         | 85-115         |     |              |       |
| Dibromochloromethane            | 9.85   | 0.500                                 | 11    | 10.0           |                  | 98.5        | 85-115         |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD     | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|---------|--------------|-------|
| Batch 2070003 - EPA 5030B (P/T) |        |                    |       | -              |                  |             |                | <u></u> |              |       |
| LCS (2070003-BS1)               |        |                    |       | Prepared       | & Analyze        | ed: 07/01/0 | )2             |         |              |       |
| 1,2-Dibromo-3-chloropropane     | 8.78   | 0.390              | ug/l  | 10.0           |                  | 87.8        | 85-115         |         |              |       |
| 1,2-Dibromoethane               | 9.41   | 0.380              | "     | 10.0           |                  | 94.1        | 85-115         |         |              |       |
| 1,2-Dichlorobenzene             | 10.4   | 0.500              | **    | 10.0           |                  | 104         | 85-115         |         |              |       |
| 1,3-Dichlorobenzene             | 10.7   | 0.500              | "     | 10.0           |                  | 107         | 85-115         |         |              |       |
| 1,4-Dichlorobenzene             | 10.3   | 0.500              | "     | 10.0           |                  | 103         | 85-115         |         |              |       |
| Dichlorodifluoromethane         | 8.94   | 0.500              | 0     | 10.0           |                  | 89.4        | 85-115         |         |              |       |
| 1,1-Dichloroethane              | 10.4   | 0.500              | "     | 10.0           |                  | 104         | 85-115         |         |              |       |
| 1,2-Dichloroethane              | 11.5   | 0.500              | **    | 10.0           |                  | 115         | 85-115         |         |              |       |
| 1,1-Dichloroethene              | 10.2   | 0.500              | 4     | 10.0           |                  | 102         | 85-115         |         |              |       |
| cis-1,2-Dichloroethene          | 10.5   | 0.500              | **    | 10.0           |                  | 105         | 85-115         |         |              |       |
| trans-1,2-Dichloroethene        | 11.5   | 0.500              | H     | 10.0           |                  | 115         | 85-115         |         |              |       |
| 1,2-Dichloropropane             | 12.2   | 0.500              | н     | 10.0           |                  | 122         | 85-115         |         |              | Н     |
| 1,3-Dichloropropane             | 9.75   | 0.500              | **    | 10.0           |                  | 97.5        | 85-115         |         |              |       |
| 2,2-Dichloropropane             | 9.74   | 0.500              | н     | 10.0           |                  | 97.4        | 85-115         |         |              |       |
| Di-isopropyl ether              | 10.8   | 5.00               | 11    | 10.0           |                  | 108         | 85-115         |         |              |       |
| Ethylbenzene                    | 9.98   | 0.500              | 11    | 10.0           |                  | 99.8        | 85-115         |         |              |       |
| Hexachlorobutadiene             | 12.1   | 5.00               | #     | 10.0           |                  | 121         | 85-115         |         |              | Н     |
| Sopropylbenzene                 | 11.1   | 0.500              | н     | 10.0           |                  | 111         | 85-115         |         |              |       |
| p-Isopropyltoluene              | 9.38   | 0.500              | **    | 10.0           |                  | 93.8        | 85-115         |         |              |       |
| Methylene chloride              | 9.79   | 0.530              | **    | 10.0           |                  | 97.9        | 85-115         |         | •            |       |
| Methyl tert-butyl ether         | 11.5   | 0.500              | **    | 10.0           |                  | 115         | 85-115         |         |              |       |
| Naphthalene                     | 11.5   | 2.00               | **    | 10.0           |                  | 115         | 85-115         |         |              |       |
| n-Propylbenzene                 | 10.9   | 0.500              | **    | 10.0           |                  | 109         | 85-115         |         |              |       |
| 1,1,2,2-Tetrachloroethane       | 10.4   | 0.350              | н     | 10.0           |                  | 104         | 85-115         |         |              |       |
| Tetrachloroethene               | 10.1   | 0.500              | Ħ     | 10.0           |                  | 101         | 85-115         |         |              |       |
| Foluene                         | 10.7   | 0.500              | Ħ     | 10.0           |                  | 107         | 85-115         |         |              |       |
| 1,2,3-Trichlorobenzene          | 9.91   | 2.00               | н     | 10.0           |                  | 99.1        | 85-115         |         |              |       |
| 1,2,4-Trichlorobenzene          | 10.7   | 2.00               |       | 10.0           |                  | 107         | 85-115         |         |              |       |
| 1,1,1-Trichloroethane           | 10.3   | 0.500              | **    | 10.0           |                  | 103         | 85-115         |         |              |       |
| 1,1,2-Trichloroethane           | 9.47   | 0.160              | "     | 10.0           |                  | 94.7        | 85-115         |         |              |       |
| Trichloroethene                 | 10.5   | 0.500              | "     | 10.0           |                  | 105         | 85-115         |         |              |       |
| Trichlorofluoromethane          | 10.4   | 0.500              | **    | 10.0           |                  | 104         | 85-115         |         |              |       |
| 1,2,4-Trimethylbenzene          | 10.2   | 1.00               | 11    | 10.0           |                  | 102         | 85-115         |         |              |       |
| ,3,5-Trimethylbenzene           | 10.8   | 1.00               | 11    | 10.0           |                  | 108         | 85-115         |         |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha WI, 53189

Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported:

07/10/02 18:45

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Batch 2070003 - EPA 5030B (P/T) |        |                    |       |                |                  |             |                |     |              |       |
| LCS (2070003-BS1)               |        |                    |       | Prepared       | & Analyze        | ed: 07/01/0 | 02             |     |              |       |
| Vinyl chloride                  | 8.85   | 0.170              | ug/l  | 10.0           |                  | 88.5        | 85-115         |     |              |       |
| Total Xylenes                   | 33.4   | 0.500              | "     | 30.0           |                  | 111         | 85-115         |     |              |       |
| Surrogate: 1-Cl-4-FB (ELCD)     | 10.5   | ····               | "     | 10.0           |                  | 105         | 80-120         |     |              |       |
| Surrogate: 1-Cl-4-FB (PID)      | 10.3   |                    | "     | 10.0           |                  | 103         | 80-120         |     |              |       |
| Matrix Spike (2070003-MS1)      | So     | urce: W2062        | 49-01 | Prepared       | & Analyze        | ed: 07/01/0 | 02             |     |              |       |
| Benzene                         | 11.3   | 0.500              | ug/l  | 10.0           | 0.610            | 107         | 75-125         |     | •            |       |
| Bromobenzene                    | 9.70   | 0.500              | **    | 10.0           | ND               | 97.0        | 75-125         |     |              |       |
| Bromodichloromethane            | 8.75   | 0.500              | Ħ     | 10.0           | ND               | 87.5        | 75-125         |     |              |       |
| n-Butylbenzene                  | 9.38   | 0.500              | 11    | 10.0           | ND               | 93.8        | 75-125         |     |              |       |
| sec-Butylbenzene                | 10.3   | 0.500              | "     | 10.0           | ND               | 103         | 75-125         |     | •            |       |
| tert-Butylbenzene               | 9.22   | 0.500              | **    | 10.0           | ND               | 92.2        | 75-125         |     |              |       |
| Carbon tetrachloride            | 9.65   | 0.500              | **    | 10.0           | ND               | 96.5        | 75-125         |     |              |       |
| Chlorobenzene                   | 9.84   | 0.500              | 11    | 10.0           | ND               | 98.4        | 75-125         |     |              |       |
| Chloroethane                    | 9.09   | 0.500              | n     | 10.0           | ND               | 90.9        | 75-125         |     |              |       |
| Chloroform                      | 9.36   | 0.140              | n     | 10.0           | ND               | 93.6        | 75-125         |     |              |       |
| Chloromethane                   | 2.88   | 0.600              | "     | 10.0           | ND               | 28.8        | 75-125         |     |              | L     |
| 2-Chlorotoluene                 | 10.2   | 0.500              | "     | 10.0           | ND               | 102         | 75-125         |     |              |       |
| 4-Chlorotoluene                 | 9.54   | 0.500              | **    | 10.0           | ND               | 95.4        | 75-125         |     |              |       |
| Dibromochloromethane            | 10.1   | 0.500              | **    | 10.0           | ND               | 101         | 75-125         |     |              |       |
| 1,2-Dibromo-3-chloropropane     | 10.9   | 0.390              | **    | 10.0           | ND               | 109         | 75-125         |     |              |       |
| 1,2-Dibromoethane               | 10.4   | 0.380              | **    | 10.0           | ND               | 104         | 75-125         |     |              |       |
| 1,2-Dichlorobenzene             | 14.1   | 0.500              | **    | 10.0           | ND               | 141         | 75-125         |     | •            | Н     |
| 1,3-Dichlorobenzene             | 9.94   | 0.500              | "     | 10.0           | ND               | 99.4        | 75-125         |     |              |       |
| 1,4-Dichlorobenzene             | 9.52   | 0.500              | "     | 10.0           | ND               | 95.2        | 75-125         |     |              |       |
| Dichlorodifluoromethane         | 8.59   | 0.500              | "     | 10.0           | ND               | 85.9        | 75-125         |     |              |       |
| 1,1-Dichloroethane              | 9.54   | 0.500              | 11    | 10.0           | ND               | 95.4        | 75-125         |     |              |       |
| 1,2-Dichloroethane              | 11.1   | 0.500              | ш     | 10.0           | ND               | 111         | 75-125         |     |              |       |
| 1,1-Dichloroethene              | 10.6   | 0.500              | ,,    | 10.0           | ND               | 106         | 75-125         |     |              |       |
| cis-1,2-Dichloroethene          | 12.2   | 0.500              | **    | 10.0           | ND               | 122         | 75-125         |     |              |       |
| trans-1,2-Dichloroethene        | 11.1   | 0.500              | "     | 10.0           | ND               | 111         | 75-125         |     |              |       |
| 1,2-Dichloropropane             | 11.4   | 0.500              | "     | 10.0           | ND               | 114         | 75-125         |     |              |       |
| 1,3-Dichloropropane             | 9.72   | 0.500              | #     | 10.0           | ND               | 97.2        | 75-125         |     |              |       |
| 2,2-Dichloropropane             | 8.48   | 0.500              | 11    | 10.0           | ND               | 84.8        | 75-125         |     |              |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr.

Waukesha WI, 53189

Project: 7-21058

Project Number: 7-21058 Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

| Analyte                         | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch 2070003 - EPA 5030B (P/T) |        |                    |       |                |                  |             |                |      |              |       |
| Matrix Spike (2070003-MS1)      | So     | urce: W2062        | 49-01 | Prepared       | & Analyze        | ed: 07/01/0 | 02             |      |              |       |
| Di-isopropyl ether              | 12.0   | 5.00               | ug/l  | 10.0           | ND               | 120         | 75-125         |      |              |       |
| Ethylbenzene                    | 9.20   | 0.500              | 11    | 10.0           | ND               | 92.0        | 75-125         |      |              |       |
| Hexachlorobutadiene             | 9.06   | 5.00               | **    | 10.0           | ND               | 90.6        | 75-125         |      |              |       |
| Isopropylbenzene                | 10.2   | 0.500              | 11    | 10.0           | ND               | 102         | 75-125         |      |              |       |
| p-Isopropyltoluene              | 8.67   | 0.500              | 11    | 10.0           | ND               | 86.7        | 75-125         |      |              |       |
| Methylene chloride              | 8.86   | 0.530              | H     | 10.0           | ND               | 88.6        | 75-125         |      |              |       |
| Methyl tert-butyl ether         | 14.9   | 0.500              | n     | 10.0           | 4.04             | 109         | 75-125         |      |              |       |
| Naphthalene                     | 10.3   | 2.00               | H     | 10.0           | ND               | 103         | 75-125         |      |              |       |
| n-Propylbenzene                 | 9.97   | 0.500              | н     | 10.0           | ND               | 99.7        | 75-125         |      |              |       |
| 1,1,2,2-Tetrachloroethane       | 11.3   | 0.350              | н     | 10.0           | ND               | 113         | 75-125         |      |              |       |
| Tetrachloroethene               | 8.93   | 0.500              | ıı    | 10.0           | ND               | 89.3        | 75-125         |      |              |       |
| Toluene                         | 9.92   | 0.500              | "     | 10.0           | ND               | 99.2        | 75-125         |      |              |       |
| 1,2,3-Trichlorobenzene          | 8.72   | 2.00               | **    | 10.0           | ND               | 87.2        | 75-125         |      |              |       |
| 1,2,4-Trichlorobenzene          | 10.2   | 2.00               | 11    | 10.0           | ND               | 102         | 75-125         |      |              |       |
| 1,1,1-Trichloroethane           | 9.47   | 0.500              | н     | 10.0           | ND               | 94.7        | 75-125         |      |              |       |
| 1,1,2-Trichloroethane           | 9.61   | 0.160              | n     | 10.0           | ND               | 96.1        | 75-125         |      |              |       |
| Trichloroethene                 | 11.3   | 0.500              | "     | 10.0           | ND               | 113         | 75-125         |      |              |       |
| Trichlorofluoromethane          | 9.62   | 0.500              | **    | 10.0           | ND               | 96.2        | 75-125         |      |              |       |
| 1,2,4-Trimethylbenzene          | 9.24   | 1.00               | H     | 10.0           | ND               | 92.4        | 75-125         |      |              |       |
| 1,3,5-Trimethylbenzene          | 10.0   | 1.00               |       | 10.0           | ND               | 100         | 75-125         |      |              |       |
| Vinyl chloride                  | 9.01   | 0.170              | **    | 10.0           | ND               | 90.1        | 75-125         |      |              |       |
| Total Xylenes                   | 30.1   | 0.500              | "     | 30.0           | ND               | 100         | 75-125         |      |              |       |
| Surrogate: 1-Cl-4-FB (ELCD)     | 10.6   |                    | "     | 10.0           |                  | 106         | 80-120         |      |              |       |
| Surrogate: 1-Cl-4-FB (PID)      | 9.91   |                    | "     | 10.0           |                  | 99.1        | 80-120         |      |              |       |
| Matrix Spike Dup (2070003-MSD1) | Son    | urce: W2062        | 49-01 | Prepared       | & Analyze        | ed: 07/01/0 | )2             |      |              |       |
| Benzene                         | 11.6   | 0.500              | ug/l  | 10.0           | 0.610            | 110         | 75-125         | 2.62 | 20           |       |
| Bromobenzene                    | 9.20   | 0.500              | 11    | 10.0           | ND               | 92.0        | 75-125         | 5.29 | 20           |       |
| Bromodichloromethane            | 8.47   | 0.500              | **    | 10.0           | ND               | 84.7        | 75-125         | 3.25 | 20           |       |
| n-Butylbenzene                  | 9.02   | 0.500              | н     | 10.0           | ND               | 90.2        | 75-125         | 3.91 | 20           |       |
| sec-Butylbenzene                | 9.77   | 0.500              | Ħ     | 10.0           | ND               | 97.7        | 75-125         | 5.28 | 20           |       |
| tert-Butylbenzene               | 8.64   | 0.500              | 11    | 10.0           | ND               | 86.4        | 75-125         | 6.49 | 20           |       |
| Carbon tetrachloride            | 9.77   | 0.500              | "     | 10.0           | ND               | 97.7        | 75-125         | 1.24 | 20           |       |
| Chlorobenzene                   | 9.63   | 0.500              | 11    | 10.0           | ND               | 96.3        | 75-125         | 2.16 | 20 ·         |       |

Great Lakes Analytical--Oak Creek

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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported: 07/10/02 18:45

# WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

|                                 |        | Reporting  |       | Spike    | Source    |             | %REC   |       | RPD   |       |
|---------------------------------|--------|------------|-------|----------|-----------|-------------|--------|-------|-------|-------|
| Analyte                         | Result | Limit      | Units | Level    | Result    | %REC        | Limits | RPD   | Limit | Notes |
| Batch 2070003 - EPA 5030B (P/T) |        |            |       |          |           |             |        |       |       |       |
| Matrix Spike Dup (2070003-MSD1) | Sou    | rce: W2062 | 49-01 | Prepared | & Analyze | ed: 07/01/0 | 02     |       |       |       |
| Chloroethane                    | 8.04   | 0.500      | ug/l  | 10.0     | ND        | 80.4        | 75-125 | 12.3  | 20    |       |
| Chloroform                      | 9.34   | 0.140      | **    | 10.0     | ND        | 93.4        | 75-125 | 0.214 | 20    |       |
| Chloromethane                   | 3.74   | 0.600      | "     | 10.0     | ND        | 37.4        | 75-125 | 26.0  | 20    | LH    |
| 2-Chlorotoluene                 | 9.82   | 0.500      | 11    | 10.0     | ND        | 98.2        | 75-125 | 3.80  | 20    |       |
| 4-Chlorotoluene                 | 9.06   | 0.500      | Ħ     | 10.0     | ND        | 90.6        | 75-125 | 5.16  | 20    |       |
| Dibromochloromethane            | 9.57   | 0.500      | **    | 10.0     | ND        | 95.7        | 75-125 | 5.39  | 20    |       |
| 1,2-Dibromo-3-chloropropane     | 12.5   | 0.390      | "     | 10.0     | ND        | 125         | 75-125 | 13.7  | 20    |       |
| 1,2-Dibromoethane               | 10.0   | 0.380      | 11    | 10.0     | ND        | 100         | 75-125 | 3.92  | 20    |       |
| 1,2-Dichlorobenzene             | 13.1   | 0.500      | 11    | 10.0     | ND        | 131         | 75-125 | 7.35  | 20    | H     |
| 1,3-Dichlorobenzene             | 9.50   | 0.500      | н     | 10.0     | ND        | 95.0        | 75-125 | 4.53  | . 20  |       |
| 1,4-Dichlorobenzene             | 9.04   | 0.500      | "     | 10.0     | ND        | 90.4        | 75-125 | 5.17  | 20 -  |       |
| Dichlorodifluoromethane         | 8.78   | 0.500      | "     | 10.0     | ND        | 87.8        | 75-125 | 2.19  | 20    |       |
| 1,1-Dichloroethane              | 9.57   | 0.500      | "     | 10.0     | ND        | 95.7        | 75-125 | 0.314 | 20    |       |
| 1,2-Dichloroethane              | 11.1   | 0.500      | 11    | 10.0     | ND        | 111         | 75-125 | 0.00  | 20    |       |
| 1,1-Dichloroethene              | 9.99   | 0.500      | **    | 10.0     | ND        | 99.9        | 75-125 | 5.93  | 20    |       |
| cis-1,2-Dichloroethene          | 11.8   | 0.500      | **    | 10.0     | ND        | 118         | 75-125 | 3.33  | 20    |       |
| trans-1,2-Dichloroethene        | 10.5   | 0.500      | U     | 10.0     | ND        | 105         | 75-125 | 5.56  | 20    |       |
| 1,2-Dichloropropane             | 10.9   | 0.500      | **    | 10.0     | ND        | 109         | 75-125 | 4.48  | 20    |       |
| 1,3-Dichloropropane             | 9.64   | 0.500      |       | 10.0     | ND        | 96.4        | 75-125 | 0.826 | 20    |       |
| 2,2-Dichloropropane             | 8.20   | 0.500      | 11    | 10.0     | ND        | 82.0        | 75-125 | 3.36  | 20    |       |
| Di-isopropyl ether              | 11.7   | 5.00       | Ħ     | 10.0     | ND        | 117         | 75-125 | 2.53  | 20    |       |
| Ethylbenzene                    | 8.91   | 0.500      | "     | 10.0     | ND        | 89.1        | 75-125 | 3.20  | 20    |       |
| Hexachlorobutadiene             | 8.69   | 5.00       | •     | 10.0     | ND        | 86.9        | 75-125 | 4.17  | 20    |       |
| Isopropylbenzene                | 9.70   | 0.500      | 11    | 10.0     | ND        | 97.0        | 75-125 | 5.03  | 20    |       |
| p-Isopropyltoluene              | 8.13   | 0.500      | 11    | 10.0     | ND        | 81.3        | 75-125 | 6.43  | 20    |       |
| Methylene chloride              | 9.11   | 0.530      | **    | 10.0     | ND        | 91.1        | 75-125 | 2.78  | 20    |       |
| Methyl tert-butyl ether         | 14.6   | 0.500      | n     | 10.0     | 4.04      | 106         | 75-125 | 2.03  | 20    |       |
| Naphthalene                     | 10.3   | 2.00       | Ħ     | 10.0     | ND        | 103         | 75-125 | 0.00  | 20    |       |
| n-Propylbenzene                 | 9.47   | 0.500      | **    | 10.0     | ND        | 94.7        | 75-125 | 5.14  | 20    |       |
| 1,1,2,2-Tetrachloroethane       | 11.5   | 0.350      | H     | 10.0     | ND        | 115         | 75-125 | 1.75  | 20    |       |
| Tetrachloroethene               | 9.24   | 0.500      | 11    | 10.0     | ND        | 92.4        | 75-125 | 3.41  | 20    |       |
| Toluene                         | 10.4   | 0.500      | "     | 10.0     | ND        | 104         | 75-125 | 4.72  | 20    |       |
| 1,2,3-Trichlorobenzene          | 8.78   | 2.00       | **    | 10.0     | ND        | 87.8        | 75-125 | 0.686 | 20    |       |
| 1,2,4-Trichlorobenzene          | 9.55   | 2.00       | **    | 10.0     | ND        | 95.5        | 75-125 | 6.58  | 20    |       |

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager



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Midwest Engineering Services

205 Wilmont Dr. Waukesha WI, 53189 Project: 7-21058

Project Number: 7-21058

Project Manager: Mike Rehfeldt

Reported:

07/10/02 18:45

### WDNR Volatile Organic Compounds by Method 8021 - Quality Control Great Lakes Analytical--Oak Creek

|                                 |        | Reporting  |       |          | Source   |            | %REC   |      | ×        |       |
|---------------------------------|--------|------------|-------|----------|----------|------------|--------|------|----------|-------|
| Analyte                         | Result | Limit      | Units | Level    | Result   | %REC       | Limits | RPD  | Limit    | Notes |
| Batch 2070003 - EPA 5030B (P/T) |        |            |       |          |          |            |        |      |          |       |
| Matrix Spike Dup (2070003-MSD1) | Sour   | rce: W2062 | 49-01 | Prepared | & Analyz | ed: 07/01/ | 02     |      |          |       |
| 1,1,1-Trichloroethane           | 9.37   | 0.500      | ug/I  | 10.0     | ND       | 93.7       | 75-125 | 1.06 | 20       |       |
| 1,1,2-Trichloroethane           | 9.50   | 0.160      | "     | 10.0     | ND       | 95.0       | 75-125 | 1.15 | 20       |       |
| Trichloroethene                 | 9.69   | 0.500      | **    | 10.0     | ND       | 96.9       | 75-125 | 15.3 | 20       |       |
| Trichlorofluoromethane          | 9.89   | 0.500      | **    | 10.0     | ND       | 98.9       | 75-125 | 2.77 | 20       |       |
| 1,2,4-Trimethylbenzene          | 8.71   | 1.00       | 11    | 10.0     | ND       | 87.1       | 75-125 | 5.91 | 20       |       |
| 1,3,5-Trimethylbenzene          | 9.42   | 1.00       | 11    | 10.0     | ND       | 94.2       | 75-125 | 5.97 | 20       |       |
| Vinyl chloride                  | 8.58   | 0.170      | 11    | 10.0     | ND       | 85.8       | 75-125 | 4.89 | 20       |       |
| Total Xylenes                   | 29.0   | 0.500      | н     | 30.0     | ND       | 96.7       | 75-125 | 3.72 | 20       |       |
| Surrogate: 1-Cl-4-FB (ELCD)     | 10.5   |            | "     | 10.0     |          | 105        | 80-120 |      | ·· ·· ·- |       |
| Surrogate: 1-Cl-4-FB (PID)      | 9.80   |            | "     | 10.0     |          | 98.0       | 80-120 |      |          |       |

Great Lakes Analytical--Oak Creek

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#### **Notes and Definitions**

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source

method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



138<del>u = ac</del>ch i ununay Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 Oak Creek, WE 50154 (414) 570/4400 FAX (414) £30/2481

|   |  | <i></i>                                |  |   | $\overline{}$                                    |                               |
|---|--|--|--|---|--|-------------------------------|
| Client: M.E.S,  | Bill To:   | CLIEN                                  | 15 )                                   |   | TAT: 5 DAY 4 DAY                                 | / 3 DAY 2 DAY 1 DAY < 24 HRS. |
| Address: 205 WILMANT DRIVE                              | Address:   |  |  | L   | DATE RESULTS NE                                  | EDED:                         |
| WAURESHA, WIT   |  |  |  | 7.  | EMPERATURE UPO                                   | ON RECEIPT: UNICO             |
| Report to: Phone #: 164 521-2125 Fax #: 641 521-247     | State & (プラ  | LUST                                   | Phone #: ( ) Fax #: ( )                | L   | Deliverable Package                              | e Needed:                     |
| Report to: K=1470   Fax #: 661 521-247                  | Program:   |  | [Fax #: ( )                            | <del>, , , , , , , , , , , , , , , , , , , </del> | □ STD □ III A                                    | □IIIB □Other                  |
| Project: 7- <b>21</b> 058                               | /  | / # of Bottl<br>Preservative           |  | / / / /   |  | / / SAMPLE /<br>/ CONTROL /   |
| Sampler: MILE RENFELDT  PO/Quote #:  FIELD ID, LOCATION | 2016 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 7777                                   |  | JANJALYSK   | 7 / / /  |                               |
| PO/Quote #:   | SAMPLE TO SAMPLE |  |  |   |  |                               |
| ,FIELD ID, LOCATION / ෮ゟ゚ / ヾ゚゙゙                        |  | [\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |  |   | /          | SE/SE/ ID NUMBER              |
| 1 MW-102 PID: 610                                       | Maried !   | 3                                      | 2/                                     |   |  |                               |
| 21/10/1/03  |  |  |  |   | <del>                                     </del> | 12256261-01                   |
| PID:  |  | 3                                      | 3/                                     |   | ~  | -02                           |
| 3 MW-72 aux   | Q J  | 3                                      | 3 X                                    |   |  | -02                           |
| PID:  |  |  | 1-3/                                   | ·   |  |                               |
| PID:  |  |  |  |   |  |                               |
| 5   |  |  |  |   |  |                               |
| PID:  |  |  |  |   |  |                               |
| 6   |  |  |  |   |  |                               |
| PID:  |  |  |  |   |  |                               |
| 7   |  |  |  |   |  |                               |
| PID:  |  |  |  |   |  |                               |
| 8   |  |  |  |   |  |                               |
| PID:  |  |  |  |   |  |                               |
| 9   |  |  |  |   |  |                               |
| PID:  |  |  |  | <del>-   -  </del>                                | <del>                                     </del> | <del></del>                   |
| A / (PID:   |  |  |  |   |  |                               |
| RELINQUISHED OF G. 25 02 BECEIVED                       | 11/1/  | OG SYD REI                             | _INQUISHED                             | DATE  | RECEIVED   | D. G.                         |
|   | 100  | 10:22                                  |  | THAE  |  | <u> </u>                      |
| RELINQUISHED RECEIVED                                   | {  | REI                                    | INQUISHED                              | DATE  | RECEIVED   | $\mathcal{D}_{t}$             |
|   |  | lua.                                   |  | TAKE  |  | $\overline{H}^{-1}$           |
| COMMENTS:   |  |  | ······································ |   |  |                               |
|   |  |  |  |   |  | PAGE 1 OF                     |

### SOIL BORING LOG

## midwest engineering services, inc.

Project Name: Location: Former Wire & Metal Specialties 4021 South Kinnickinnic Avenue

St. Francis, Wisconsin

Boring: B-3 (MW 11) Project No.: 7-21058 Date of Boring: 2-26-04

Field Representative: Mike Rehfeldt

| VISUAL SOIL CLASSIFICATION  |             | SAMPLE |                                     | Qp    | Qu  | МС                       | PID  | en en en en en en en en en en en en en e |
|---|-------------|--------|-------------------------------------|-------|---|--------------------------|------|--|
| GROUND SURFACE: ELEVATION   | (Feet)      | NO.    | N                                   | (tsf) | (tsf)                                     | (%)                      | i.u. | REMARKS                                  |
| <ul><li>Brown Sandy SILT, trace Gravel,</li><li>(and Broken Brick)</li></ul>  | _<br>_      | 1-SS   | 3                                   |       |   |                          | ND   | -<br>-                                   |
| _ `<br>_  | -<br>-      | 2-SS   | 4                                   |       |   |                          | ND   | <b>-</b> √                               |
|   | 5 <u></u>   | 3-SS   | 2                                   |       |   |                          | ND   | <u> </u>                                 |
| Moist, SAND seam, little Silt   | <u> </u>    | 4-SS   | 3                                   |       |   | !                        | ND   | -<br>-                                   |
| Bright Brown Clayey SILT  | <br>10      | 5-SS   | 8                                   |       |   |                          | ND   | ;<br>;                                   |
| Gray Clayey SILT  | -<br>-      | 6-SS   | 11                                  |       |   |                          | ND   | _<br>                                    |
| - Crov Silh, CLAV   | _<br>_      | 7-SS   | 18                                  |       |   | ,                        | ND   | -  |
| Gray Silty CLAY  Wet, Gray Sandy SILT   | 15 <u> </u> | 8-SS   | 14                                  |       |   |                          | ND   | <u> </u>                                 |
| Wet, Gray CLAY  | _           | 9-SS   | 14                                  |       |   | :                        | ND   |  |
| End of Boring: 18' bgs<br><br>Note:   | 20 <u> </u> |        |                                     |       |   |                          |      | -<br>-<br>-                              |
| SS = Split Spoon Sample PID = Photoionization Detector i.u. = Instrument Units b.g.s. = Below Ground Surface ND = Not Detected Depth Groundwater observed during drilling | 25          |        |                                     |       |   |                          |      | -<br>-<br>-<br>-<br>-                    |
| <del>-</del><br>  | 30          |        |                                     |       |   |                          |      | _  |
| <b>-</b>  | -<br>-      |        |                                     | :     |   |                          |      | _<br>_                                   |
| <del>-</del>  | 35          |        |                                     |       |   |                          |      | _  |
|   | -           |        |                                     |       |   |                          | ı    | -  |
| <u>-</u>  | 40          |        |                                     |       | :   |                          |      | _  |
| _<br>_  | -           |        |                                     |       |   |                          |      | _  |
| <br>  | _           |        |                                     |       |   |                          |      | _<br>                                    |
|   | _           |        | and a consequent of the reaching of |       | er en en en en en en en en en en en en en | ta sinti sihaapaitunaigo |      | to photographic to the analysis of the   |

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes, such as fill-to-natural soil zone transitions.

#### SOIL BORING LOG

### midwest engineering services, inc.

Project Name: Location: Former Wire & Metal Specialties 4021 South Kinnickinnic Avenue

St. Francis, Wisconsin

Boring: B-4 (PZ -1) Project No.: 7-21058 Date of Boring: 7-26-04

Field Representative: Mike Rehfeldt

| VISUAL SOIL CLASSIFICATION  | DEPTH        | SAMPLE | and residentially and | Qp    | Qu    | MC                          | PID  | The standard section is a man     |
|---|--------------|--------|-----------------------|-------|-------|-----------------------------|------|-----------------------------------|
| GROUND SURFACE: ELEVATION   | (Feet)       | NO.    | N                     | (tsf) | (tsf) | (%)                         | i.u. | REMARKS                           |
| <ul> <li>Brown Silty SAND to Clayey SILT</li> <li>and Intermixed Organic Material,</li> </ul> | _            | 1-SS   | Push                  |       |       |                             | ND   |                                   |
| — (Fill)<br>—   | -<br>-       | 2-SS   | 6                     |       | -     |                             | ND   | <br>                              |
| Dark Brown SILT, trace Sand, (Possible Buried   | 5            | 3-SS   | 8                     |       |       |                             | ND   | _                                 |
| - Topsoil) - Brown Clayey SILT, trace Sand  | _<br>_       | 4-SS   | 9                     |       |       |                             | ND   | -                                 |
|   | 10 <u> </u>  | 5-SS   | 11                    |       |       |                             | ND   | –<br>Moderate                     |
| <ul><li>Brown to Gray Silty CLAY, Wet</li><li>Sand seams at 14' to 16'</li></ul>              | -<br>-       | 6-SS   | 12                    |       |       |                             | 35   | Petroleum Odor —<br>Strong Odor — |
| -<br> -   | -<br>-<br>15 | 7-SS   | 13                    |       |       |                             | >500 | Moderate Odor                     |
|   | -            | 8-SS   | 12                    |       | ·     |                             | 145  |                                   |
| <ul><li>Gray CLAY, reduced Moisture,</li><li>reduced Petroleum Odors</li></ul>                | _            | 9-SS   | 12                    |       |       | ;                           | 5    | _                                 |
| Note A  | 20           | 10-SS  | 15                    |       |       |                             | <3   | _                                 |
| Blind Drill<br>   | -<br>-       | ·      |                       |       |       |                             |      | -<br>-                            |
| _   | _<br>_<br>   |        |                       |       |       |                             | ,    |                                   |
| Wet, Gray SILT, trace Sand and Gravel   | _            | 11-SS  | 17                    |       |       |                             | <5   | _                                 |
| End of Boring: 27' bgs  | _<br>_       |        |                       |       |       |                             |      | _                                 |
| Note A: Dark Greenish-Gray Sandy SILT-  Note:   | 30           |        |                       | :     |       |                             |      |                                   |
| - SS = Split Spoon Sample   | -<br>-       |        |                       |       |       |                             |      | -                                 |
| PID = Photoionization Detector i.u. = Instrument Units b.g.s. = Below Ground Surface          | 35 <u> </u>  |        |                       |       |       |                             |      | -                                 |
| <ul><li>ND = Not Detected</li><li>= Depth Groundwater observed</li></ul>                      | -            |        |                       |       |       |                             |      | _<br>_                            |
| during drilling  during drilling  | -            |        |                       |       |       |                             |      | -                                 |
|   | 40 <u> </u>  |        |                       |       |       |                             |      | -                                 |
| <u>-</u>  | -            |        |                       |       | !     |                             |      | -<br>-                            |
|   | _            |        |                       |       |       | a com a la manación coma co |      |                                   |

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes, such as fill-to-natural soil zone transitions.

#### State of Wisconsin

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Department of Natural Resources

Form 3300-5W

11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141. Wis Admin Code whichever is applicable. Also, see instruction on back.

| of NR 141, WIS. Admin, Code, W              | nichever is applicable. Al | so, see msu  | uction on be   | ack.             |             |                                       |
|---|----------------------------|--------------|----------------|------------------|-------------|---------------------------------------|
| 1) GENERAL INFORMATION                      |                            | (2) FACILIT  | Y NAME         |                  |             |                                       |
| Well/Drillhole/Borehole B-6                 | County Milwaukee           | Original W   | ell Owner (I   | f Known)         |             |                                       |
| Location WE Energies Vacant                 | Lot                        | <u> </u>     |                |                  |             |                                       |
|   |                            | Present We   | ell Owner      |                  |             |                                       |
| NE 1/4 of NE 1/4 of Sec.22; T.6             | 6 ; R. 22E                 |              |                | MPL Rea          | ılty        |                                       |
| (If applicable)                             |                            | Street or R  | oute           |                  |             |                                       |
|   | Grid Number                |              | W              | 302 N6015 Sp     | ence Road   |                                       |
| Grid Location                               |                            | City, State, | Zip Code       |                  |             |                                       |
| ft.[]N.[]S                                  | ft.[]E.[]W.                |              |                | Hartland WI      |             |                                       |
| Civil Town Name                             |                            | Facility We  | ll No.&/or N   | ame (If Applica  | ıble)       | WI Unique Well No.                    |
| St. Franc                                   | is                         |              |                |                  |             |                                       |
| Street Address of Well                      |                            | Reason Fo    | r Abandonn     |                  |             |                                       |
| Vacant Lo                                   |                            | <u> </u>     |                | Borehole         | Only        |                                       |
| fity, Village St. Francis                   | 3                          | Date of Aba  | andonment      |                  |             |                                       |
|   |                            |              |                | 26-Jul-0         | 4           |                                       |
| WELL/DRILLHOLE/BOREHOLE INFOR               |                            |              |                |                  |             |                                       |
| (3) Original Well/Drillhole/Borehole Consti |                            | (4) Depth t  | to Water (F    | eet) <u>N/A</u>  | <del></del> |                                       |
| (Date) <u>July 26, 2004</u>                 | <u> </u>                   |              |                |                  |             |                                       |
|   |                            |              |                |                  |             | Not Applicable                        |
| Monitoring Well Construction                | n Report Available?        | Liner(s) Re  | moved?         | [] Yes           | [ ] No [X]  | Not Applicable                        |
| ] Water Well [ ] Yes [                      | [x] No                     | Screen Rea   | moved?         | [] Yes           | [ ] No [X]  | Not Applicable Not Applicable         |
| ] Drillhole                                 |                            | Casing Left  | t in Place?    | [ ] Yes          | ] No [X]    | Not Applicable                        |
| [X] Borehole                                |                            | If No, Expla |                |                  |             |                                       |
|   |                            |              |                |                  |             |                                       |
| Construction Type:                          |                            |              |                | elow Surface?    |             |                                       |
| [X] Drilled [ ] Driven (Sand                | dpoint) [] Dug             |              |                | ise to Surface?  |             |                                       |
| Other (Specify)                             |                            | Did Materia  | al Settle Afte | er 24 Hours?     | [] Yes      | [ ] No                                |
|   |                            | If Yes, Was  | s Hole Reto    | pped?            | [] Yes      | [ ] No                                |
| Formation Type:                             |                            | (5) Require  | d Method o     | f Placing Sealir | ng Material |                                       |
| [x] Unconsolidated Formation [              | ] Bedrock                  | [] Condu     | ctor Pipe-G    | ravity [ ]       | Conducto    | or Pipe-Pumped                        |
| -   | -                          | [] Dump      | Bailer         | [X               | Gravity     |                                       |
| Total Borehole Depth (ft.)45                |                            | (6) Sealing  | Materials      | [X]<br>F         | or Monitor  | ing wells and                         |
| (From groundsurface)                        | _                          | [ ] Neat C   | ement Gro      | ut mo            |             | ell boreholes only                    |
| ,   |                            | li i Sand-0  | Cement (Co     | ncrete) Grout    |             | •                                     |
| asing Depth (ft.)                           |                            | [ ] Concre   | •              |                  | [ ] Bentor  | nite Pellets                          |
|   |                            |              | and Slurry     |                  |             | lar Bentonite                         |
| -Vas Well Annular Space Grouted? [          | 1 Yes [X] No [ ] Unknown   |              | nite-Sand Sl   |                  |             | nite-Cement-Grou                      |
| If Yes, to What Depth?                      | Feet                       | ,            | ed Bentonite   | •                | [ ] Bonto.  | mo oomon orou                         |
|   |                            | [A] CIMPPO   |                |                  |             | · · · · · · · · · · · · · · · · · · · |
|   |                            |              |                | No. Yards, Sad   |             | Mix Ratio or                          |
| 7) Sealing Materia                          | al Used                    | From (Ft.)   | To (Ft.)       | Sealant or Vol   | ume         | Mud Weight                            |
| 3/8" Chipped Bentonite                      |                            | 0            | 45             | 15               |             |                                       |
|   |                            |              |                |                  |             |                                       |
| 8) Comments:                                |                            | (10) FOR     | DNR OR C       | DUNTY USE O      | NLY         |                                       |
|   |                            |              | ved/Inspec     |                  | District/Co | urt                                   |
| (9) Name of Person or Firm Doin             | g Sealing Work             | 1            |                |                  |             |                                       |
| Midwest Engineering Services, In-           | •                          |              |                |                  |             |                                       |
| Fignature of Person Doing Work              | Date Signed                | Reviewer/Ir  | aspector       |                  |             |                                       |
|   | 7/27/04                    | 104104401711 | -spuotoi       |                  |             |                                       |
| Demis Analete Street or Route               | Telephone Number           | 1            |                |                  |             |                                       |
|   | · ·                        | Fall-        |                |                  |             |                                       |
| 205 Wilmont Drive                           | (414) 521-2125             | Follow-up N  | vecessary      |                  |             |                                       |
| City, State, Zip Code                       | <b></b>                    |              |                |                  |             |                                       |
| Waukesha, Wisconsin 53186                   | DNR/COUNTY                 |              |                |                  |             |                                       |

|  | Management MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98   |
|--|--|
| Remediation/Redevelopment A Other  |  |
| Facility/Project Name Local Grid Location of Well   N. Focusion of Well   N. Focusion Wiles & Merval Specialized | ft. □ Well Name MW − 9   |
|  | Well Towns I We I was Wall May I DAD Wall DAG  |
| Facility License, Permit or Monitoring No. Local Grid Origin (estimated: )                                       | 1 TT Q 1 M TT Q 1 Mill   |
| Facility ID St. Plane ft. N  | S. W.W. Carlotte   |
| 7 4 1 4 3 6 9 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | fr. E. S/C/N Date Well Installed 2/07/2003   |
| Type of Well And Alexander   | MB. Well Installed By: Name (first, last) and Firm   |
| Wall Code M.C. M.W. 1101/4 or 1101/4 or See 251.   | 6 N.R. 22 TW Scott Llaures   |
| Distance from Waste/   Enf. Stds.   Location of Well Relative to Waste/Sour                                      | co Gov. Lot Number   |
| Source n. Apply d d Downgradient n Not Kno   |  |
| A. Protective pipe, top elevation  | 1. Cap and lock? ☐ Yes ☐ No  |
|  | 2. Protective cover pipe:  |
| B. Well casing, top elevation - 99.6 ft. MSL   | a. Inside diameter: 12. Cin.   |
| C. Land surface elevation  | b. Length:   |
|  | gy c. Material: Steel 💆 0.4  |
| D. Surface seal, bottom 10, ft. MSL or ft.   | Other 🗆 🧮  |
| 12. USCS classification of soil near screen:   | d. Additional protection?  |
| GP GM GC GW SW G SP G  | If yes, describe:  |
| SM D SC D MLD MHD CL D CH D  | 3. Surface scal:   |
| , POST 14001   | Concrete 01  |
|  | Other D  |
| 14. Drilling method used: Rotary D 5 0   | 4. Material between well casing and protective pipe:   |
| Hollow Stem Auger 2 41   | Bentonite 🗆 30   |
| Other D  | Si WS Other DK   |
| 15. Drilling fluid used: Water 0 2 Air Q 01  | 5. Annular space scal: a. Granular/Chipped Bentonite [2] 3 3   |
| Drilling Mud 🗆 0 3 None 🖂 99   | bLbs/gal mud weight Bentonite-sand slurry 3.5  |
| A Marie Paris  | cLbs/gal mud weight Bentonite slurry   31  |
| 16. Drilling additives used?   | d % Bentonite Bentonite-cement grout 🗆 50  |
| , · · · · · · · · · · · · · · · · · · ·  | eFt <sup>-3</sup> volume added for any of the above  f. How installed: Tremit □ 0.1  |
| Describe   | # 330 M 1000M100M  |
| 17. Source of water (attach analysis, if required):  | Tremic pumped D 02 Gravity 📝 08  |
|  | 6. Bentonite seal: a. Bentonite granules 33  |
|  | b. □1/4 in. □3/8 in. □1/2 in. Bentonite chips □ 32   |
| E. Hentonite seal, top   | / c. Other D   |
|  | /  |
| F. Fine sand, topft. MSL orft.   | 7. Fine sand material: Manufacturer, product name & meth size  |
|  | American Materials 💹   |
| G. Filter pack, topft. Of the MSL or ft.   | b. Volume addedft <sup>3</sup>   |
| $\mathcal{G}_{\mathcal{O}}$ , $\mathbf{n}$   | 8. Filter pack material: Manufacturer, product name & mesh size  |
| H. Screen joint, top 1st. MSL or st.   | American Materials Red Flint,  |
| 90 4   | b. Volume added ft <sup>3</sup>  |
| I. Well bottom   | 9. Well easing: Flush threaded PVC schedule 40 2 23  |
| J. Filter pack, bottom _ #A 1 ft MSL or _ ft.  | Fhish threaded PVC schedule 80 0 24  |
| 1. Filter pack, bottom OU. II MSL or II.   | Other D 33   |
| K. Borchole, bottom & Lit MSL or ft.   | 10. Screen material:   |
| K. Borchole, bottom 20 2ft MSL or ft.  | a. Screen type: Factory cut D 11   |
| L. Borebole, diameter 2.2 in   | Sch 40 Continuous slot   |
| L. Borehole, diameter _ 2.2 in.  | 2022   |
| M. O.D. well easing $\frac{2.05}{10.00}$ in.   | b. Manufacturer  |
| M. O.D. well easing _ 4.05 in.   | 1 · · · · · · · · · · · · · · · · · · ·  |
| N. I.D. well casing $-2.00$ in.  | * · · · · · · · · · · · · · · · · · · ·  |
| N. I.D. well casing $-2.0^{\circ}$ in.   | 11, Backfill material (below filter pack): None 🗷 14 Other 🗆 🚳   |
| I hereby certify that the information on this form is true and correct to the best of my                         |  |
|  | FIGURE SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION AND ADDRESS OF THE SECTION AD |
|  | ineering Services  |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR affice and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file there forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

| C F   | Watershed/Wastewater                                  |                    | agement [   | MONITORING WEL<br>Form 4400-113A   | L CONSTRUC<br>Rev. 7-98      | TION                                   |
|---|---|--------------------|---|--|------------------------------|--|
| Facility/Project Name - State CAR                   | Remediation/Redevelopme<br> Local Grid Location of W  | <sup>'cll</sup> □N | , DE  | Well Name Man  | -10                          | 7                                      |
| Facility License, Permit or Monitoring No.          | Local Grid Origin 🗆 (e                                |                    | 34  | Wis. Unique Well No.   |                              | No.                                    |
| Facility ID 24 1 039920                             |   |                    | n.e. s/c/n  | Date Well Installed /  | 1 <u>081 200</u>             | <u> </u>                               |
| Type of Well Well Code MW / 11                      | Section Location of Waste<br><u>NS 14 of NS 14 of</u> | Sec. 22 T. 6       | N.R. 22   | Well Installed By: No  |                              |  |
| Distance from Waste/ Enf. Stds. Source n Apply      | Location of Well Relative u                           |                    | Gov. Lot Number   | M.Es.  |                              | <u></u>                                |
| A. Protective pipe, top elevation                   | ft.MSL —  |                    | 1. Cap and lock?  |  | DXYes D                      | No                                     |
|   | 0636 n MSL  | TAB                | 2. Protective cover :  a. Inside diameter                 | -  | J2-                          | Cin.                                   |
| C. Land surface elevation                           | 6.82 n.MSL  | ا الب              | b. Length:  |  | - 71                         | Ċţr.                                   |
| D. Surface seal, bottom _ \( \sqrt{Q5.8 ft. MS} \)  | Lor ft 🛒  | N. S.              | c. Material:  |  | Steel (A)                    |  |
| 12. USCS classification of soil near screen         |   | A Associate        | d. Additional pro   | tection?   | ☐ Yes 🗗                      |  |
| GP GM GC GW S                                       |   |                    | If yes, describe  | •  |                              |  |
| Bedrock   |   |                    | 3. Surface scal:  |  | Bentonite D Concrete D       |  |
| 13. Sieve analysis performed?                       | Yes DNo   |                    |   | CAN  | Other D                      | 4 54 5-6-                              |
| - 1   | tary ☐ 5 0  |                    | <ol> <li>Material hetween</li> </ol>                      | well casing and protect  |                              | 1                                      |
| Hollow Stem Au                                      | iger [2] 41<br>ther [2] (2)                           |                    |   | SAWS   | Bentonite C                  | 30                                     |
|   |   |                    | 5. Amular space sea                                       |  |                              |  |
|   | Air □ 01  |                    | bLbs/gal n  | nud weight Bentoni   |                              | 3.5                                    |
| Drilling Mud □ 03 }                                 | Vario X 99  |                    | cLbs/gal n  | nud weight Ben   | tonite slumy                 | 31                                     |
| 16. Drilling additives used?                        | Yes pX No   |                    |   | to Bentonite-  |                              | :5 0                                   |
| The Age   | • `   |                    | f. How installed:   | · · · · · · · · · · · · · · · · · · ·  | Tremie 🗆                     | 01                                     |
| Describe  | imd).   |                    | -   |  | mic pumped D                 | 0.2                                    |
|   |   |                    | 6. Bentonite scal:  | a. Bentro  | Gravity 🖄<br>nite granales 🏋 | ~ ~ ~                                  |
| 10 == 0   |   |                    |   |  | ntonite chips M              |  |
| E. Bentonite seal, top                              |   |                    | C   |  | Other 🛘                      | 100                                    |
| F. Fine sand, top                                   | / '   |                    | 7. Fine sand materis<br><u>American</u>                   | d: Manufscturer, prodi<br>Materials  | ict name & mesh              | ı size                                 |
| G. Filter pack, top G. Oft. MS                      | Lor ft.   |                    | b. Volume added   | , <del>40</del>  | 13                           |  |
| H. Screen joint, top                                | Lor B   | 掛関 ノ               |   | al: Manufacturer, prod<br>Materials Red I  |                              |  |
| · · · · · · · · · · · · · · · · · · ·               |   |                    | b. Volume added   |  | 13.                          |  |
| I. Well bottom \( \frac{9}{2} \frac{6}{2} \) ft. MS | L or ft.  |                    | 9. Well casing:   | Flush threaded PVC s   |                              | 23                                     |
| J. Filter pack, bottom _ 86_6_ft MS                 | Lorfl   |                    | · ·   | Flush threaded PVC:  | chedule 30  Other            | 2 4<br>32                              |
| K. Borchole, bottom                                 | LorfL   |                    | Screen material:     Screen type:                         |  | Factory cut                  | 2 <u>0</u><br>11                       |
| L. Borehole, diameter _ 8, 2 in.                    |   |                    | Sch 40  | Con  | tinuous slot  Other          | 01                                     |
| M. O.D. well easing 205 in.                         |   |                    | b. Manufacturer   |  | 0.00                         | A :                                    |
| -   |   | /                  | <ul><li>c. Slot size:</li><li>d. Slotted length</li></ul> | :  |                              | Qñ.                                    |
| N. I.D. well easing 200 in.                         |   | 1                  | l Backfill material                                       |  | None D                       | [14]                                   |
| I hereby certify that the information on this       |   | the best of my kno | wkedge.   |  |                              |  |
| Signature All Dell                                  | Firm  | dwest Engine       | ering Service   | <u> </u>   |                              | ······································ |
| ٠ ١   |   |                    |   | the second secon |                              |  |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and burean. Completion of these reports is required by chs. 160, 281, 283, 283, 291, 292, 293, 295, and 299, Wis. Statu, and ch. NR 141, Wis. Adm. Code. In accordance with the 281, 289, 291, 292, 293, 295, and 299, Wis. Statu, and ch. NR 141, Wis. Adm. Code. In accordance with the 281, 289, 291, 292, 293, 295, and 299, Wis. Statu, failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

|   | Vatershed/Wastewater  Remediation/Redevelopment         | Waste Management [     | MONITORING Form 4400-113A                      | WELL CONSTRUCTION<br>Rev. 7-98                |
|---|---|------------------------|--|---|
| Facility/Project Name                         | Remediation/Redevelopment  Local Grid Location of Well/ | Other                  | Well Name                                      |   |
| Former WILE & METAL                           | <u> </u>  | ₫\$:                   | - B. Well Malle                                | カーゴナ  |
| Facility License, Permit or Monitoring No.    | Local Grid Origin 🔲 (estim                              | Long.                  |  | II No. DNR Well ID No.                        |
| Pacility ID                                   | St. Plane ft. )   |                        | S/C/N Date Well Instal                         | led   |
| 241039920                                     | Section Location of Waste/So                            |                        | . SPEATE                                       | <u>70212612004</u>                            |
| Type of Well Well Code (MW) / 11              | NS 14 of NS 14 of Sec                                   | 22T. 6 N.R. 2          | 2 Well Installed B                             | iy: Name (first, last) and Firm               |
| Distance from Waste/   Enf. Stds.             | Location of Well Relative to                            | Waste/Source Gov. Lot  | Number   | 3-4-17-51-0                                   |
| Source R. Apply                               | u Upgradient s [<br>d Downgradient n [                  | Sidegradient Not Known | <u> </u>                                       |   |
| A. Protective pipe, top elevation             | n. MSL  | 1. Carp and            |  | □\Yes □ No                                    |
| B. Well casing, top elevation                 | 9.5 n. MSL -  | 1 1 2 7                | ve cover pipe:<br>e diameter:                  | _12_9m  |
| C. Land surface elevation                     | O. DOR. MSL   | b. Long                | th:  | 1 Oft.  |
|   |   | ZEZE C. Maie           |  | Steel S 04                                    |
| D. Surface seal, bottom 11ft. MS              | Lorn  |                        |  | Other 🗖 🚟                                     |
| 12. USCS classification of soil near screen   |   | Viscosias d. Addi      | tional protection?                             | ☐ Yes ☐ No                                    |
| GP GM GM GC GW G S                            |   | 114                    | s, describe:                                   |   |
| SM D SC D MLD MHD C                           | TO CHO  |                        |  | Bentonite 🛘 30                                |
| Bedrock                                       | ~   M   | 3. Surface             | scal:  | Concrete 101                                  |
| 13. Sieve analysis performed?                 | Yes 🖾 No  |                        |  | Other D                                       |
| 14. Drilling method used: Ro                  | ary □ 50   Ø  | # 4. Materia           | l between well casing and p                    |   |
| Hollow Stem Av                                |   |                        |  | Bentonite 🗆 30                                |
|   | ther 🗆 💮  |                        | CHAC   | Other AD                                      |
|   |   | S Amonia               | r space scal: 2. Granular                      | Chipped Bentonite 2 33                        |
| 15. Drilling fluid used: Water 0 2            | Air 🔲 01 📗 🔯  |                        | Lbs/gal mod weight Be                          |   |
| Drilling Mud 🖂 0 3 1                          | Tome 209  |                        | Lbs/gal mud weight                             |   |
|   |   |                        | % Bentonjte Bent                               |   |
| 16. Drilling additives used?                  | Yes IZNo 🖁  |                        | Fi <sup>3</sup> volume added fo                |   |
| 8 4   | 188   | f. How                 | installod:                                     | Tremie 🛛 01                                   |
| Describe                                      | <del></del>   🐰   |                        |  | Tremie pumped D 02                            |
| 17. Source of water (attach analysis, if requ | area):  |                        |  | Gravity PK 08                                 |
|   |   | 6. Bentoni             | ite scal: a. I                                 | Bentonite granules 🔲 33                       |
| 00.0  |   | b. □1                  | /4 in. □3/8 in. □1/2 in.                       | Bentonite chips 🗵 32                          |
| E. Bentonize seal, top                        | <b>\</b>  | /                      |  | Other 🛚 💥                                     |
| F. Fine send, top93.5ft. MS                   | ro  |                        | nd material: Manufecturer,<br>erican Materials | -   |
| G. Filter pack, top 92.5 ft. MS               | Lorft.  |                        | me added                                       |   |
|   | <b>\ 1</b> 31   | 1                      | ack material: Manufacturer                     | product name & mesh size                      |
| II. Screen joint, top 12,0 ft. MS             | Lorft   |                        | erican Materials R                             |   |
|   | Frit  |                        | une added                                      | n <sup>3</sup>                                |
| I. Well bottom 82 Oft. MS                     | Lorft   | 9. Well ca             |  | VC schedule 40 🔲 23                           |
|   | 128   |                        | Flush threaded I                               | PVC schedule 80 🔲 24                          |
| J. Filter pack, bottom 82.0 ft MS             | Lorfl.  |                        |  | Other D                                       |
| K. Borchole, bottom 820 ft MS                 | Lor (L  | 10. Screen<br>a. Scre  |  | Factory cut   11                              |
| L. Borchole, diameter _ &. Z in.              |   | Sch                    | n 40   | Continuous slot   01                          |
| L Durchole, disincici _ D in.                 |   | 1.                     | ufacturer                                      | Other 🗆 💥                                     |
| M. O.D. well easing $Z_1 \subseteq S$ in.     |   | c, Slot<br>d, Slot     | size:<br>ted length:                           | o <u>. <i>O</i> (O</u> in.<br><u>1,0 o</u> n. |
| N. I.D. well casing _200 in.                  |   |                        | lou length;<br>I material (below filter pack   | iX  |
| <del>-</del> <del></del>                      |   |                        | *  | Other 🗆 🎎                                     |
| I hereby certify that the information on this | formis the and correct to the                           | best of my knowledge.  |  |   |
| Signature /                                   | // Firm   |                        |  |   |
| MANNE   | Midw Midw   | est Engineering S      | Services                                       |   |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and burean. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 280, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on those forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

| State of Wisconnia Department of Natural Resources Route to: | Watershed/Wastewater  Remediation/Redevelopment | Waste Management Other   | MONITORING WELL CONSTRUCTION Form 4400-113A Ray, 7-98             |
|--|---|--|---|
| Facility/Project Name (Foxuse                                | Local Grid Location of Well                     | · · · · · · · · · · · · · · · · · · ·  | Well Name PZ-1  |
| Writch Matthe Speciality License, Permit or Monitoring No.   |   |  | Wis. Unique Well No.   DNR Well ID No.                            |
| Facility License, Permit of Monitoring No.                   |   | ongor  | PLSS 8  |
| Pacifity ID  | St. Plano ft. N                                 | and the second s |   |
| 241039920  | Carried Location of Wester Cont.                | ***  | mm/dd v v v v   |
| Type of Well Code 12 / PZ                                    | NE 14 OF NE 14 OF Sea.                          | 72 T. 6 N.R. R2 8  | Well Installed By: Name (first, last) and Firm                    |
| Distance from Waste/   Enf. Stds.                            | Location of Well Relative to W                  | aste/Source Gov. Lot Number<br>Sidegradient  | - CONTROL CONTROL   |
| Sourcen. Apply   |   | Not Known  | M. E. S.  |
| A. Protective pipe, top elevation                            | n. MsL —  | 1. Cap and lock?   | . Yes □ No  |
| B. Well casing, top elevation $-10$ .                        | 6.67 n. MSL - C                                 | 2. Protective cover  | 1 ~ A   |
|  | 7.22n.MSL                                       | b. Length:   | - 1 On  |
| D. Surface seal, bottom                                      |   | c. Material:   | Steel Ch 04   |
| T  | 7.55 C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.  |  | Other D   |
| GP GM GC GW S  | 1 1 1   | d. Additional pro  |   |
| SM D SC D MLD MHD C  | T GH D  |  | Bentonite D 30  |
| Bedrock 🗆  |   | 3. Surface scali   | Auf Concrete A 01   |
|  | Yes 🗆 No  |  | Other E   |
| 14. Drilling method used: Rot Hollow Stem Au                 | tary D 50                                       | 4. Material hetween  | well casing and protective pipe:  Bentonite  30                   |
| Noticw Stein At  | ther D  |  | SAWS Other EX EX  |
|  |   | 5. Annular space se  |   |
| 15. Drilling fluid used: Water □ 0 2  Drilling Mud □ 0 3     | Air 🗆 01  | bLbs/gal 1   | and weight Bentonite-sand slurry □ 35                             |
| Duming rated Cl 0.3 V  | Tome □ 99                                       |  | mid weight Bentonite slumy D 31                                   |
| 16. Drilling additives used?                                 | Yes 🗆 No  |  | your added for any of the above                                   |
|  |   | f. How installed   |   |
| Describe   |   | **   | Tremie pumped 🗓 , 02  |
| 17. Source of water (attach Bialysia, if itse                | arcaj:  |  | Gravity 🖄 08  |
|  |   | 6. Bentonite scal:   | a. Bentonite granules 3 3 3 3/8 in. 1/2 in. Bentonite chips 1 3 2 |
| E. Hentonite seal, top                                       | LorfL   | Ø / c  | Other D   |
| F. Fine sand, top  |   | 2. Fine sand materi  | al: Manufacturer, product name & mesh size                        |
| F. Fine sand, top  | LorIL   | American   | -   |
| G. Filter pack, top  | Lorft.  | b. Volume adde   |   |
|  | - Hi  | 8. Filter pack mater   | ial: Manufacturer, product name & mesh size                       |
| H. Screen joint, top   | Lorft   | American American  | Materials Red Flint,  |
| I. Well bottom 79 6 ft. MS                                   | Lorf  | h. Volume adde<br>9. Well casing:  | d R <sup>3</sup> Flush threaded PVC schedule 40 □ 23              |
|  |   | y, wen casing:   | Flush threaded PVC schedule 80 24                                 |
| J. Filter pack, bottom _ 79.6ft MS                           | Lorfl.  | <b>刻</b>   | Other 🛛 💥   |
| 39 /4.50   |   | 10. Screen rasterial:  | <u> </u>  |
| K. Borchole, bostom ? 9. 6st MS                              | L or IL   | a. Screen type:  | Factory cut 1 11 Continuous slot 0 01                             |
| L. Borehole, dismeter _ £. 2 in.                             |   | Sch 40   | Continuous slot  0 0 1  |
| ,  |   | b. Manufacturer  | <del>.</del>  |
| M. O.D. well easing $2.05$ in.                               |   | c. Stot size:  | 0. <u>A</u> <u>Q</u> in.  |
| N. I.D. well casing 200 in.                                  |   | d. Slotted length  |   |
| IV. I.D. WEII CESING   |   | 11, Backfill material  | (below filter pack): None 14                                      |
| I hereby certify that the information on this                | form is true and correct to the b               | est of my knowledge.   |   |
| Signature 0 0/2  | /)/// Firm                                      |  |   |
| _/MEHOUSEN   | Midwe   | st Engineering Service   | es  |

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|  | Watershed/Wastewater                                  | Waste Management                            | MONITORING WELL CONSTRUCTION<br>Form 4400-113A Rev. 7-98                        |
|--|---|---|---|
| Facility/Project Name Course                           | Remediation/Redevelopment Local Grid Location of Well | Other D                                     | Well Name NW-12   |
| Ficility License, Permit or Monitoring No.             | Local Grid Origin   (estimat                          | ted: 🗆 ) or Well Location 🗆                 | Wis. Unique Well No. DNR Well ID No.  |
| Facility ID  |   | ong.  | Dear Well Installed   |
| 241039920  | St. Planeft. N. Section Location of Waste/Sour        |   | 07/26/2007  |
| Type of Well Code // / NW                              | NE 14 OF NE 14 OF SOC.                                | 22r. 6 n.r. 22 0                            | Well Installed By: Name (first, last) and Fire                                  |
| Distance from Waste/ Enf. Stds.                        | JI BORTION OF WALL KALIDING TO WE                     | astc/Source Gov. Lot Number<br>Sidegradient | H.E.S.  |
| Source n. Apply  | d Downgradient n                                      | Not Known                                   | Yes No  |
| /^   | 3.0° n. MSL 250n. MSL                                 | 2. Projective cover                         |   |
| 441  | · • • • • • • • • • • • • • • • • • • •               | a. Inside diamete                           | n <u>/ 2 ¢in.</u>   |
|  | 00 n. MSL   | b. Longth:                                  | Steel Di 04   |
|  | SL or fL  |   | Other 🛚   |
| 12. USCS classification of soil near screen            |   | d. Additional pro                           | · .   |
| SM C SC C MLC MHC C                                    |   | 3, Surface scal:                            | Bentonite D 30  |
| Bedrock   13. Sieve analysis performed?                | Yes □ No  | 3. Surface scal:                            | Concrete 2 01   |
|  | tary D 50   | 4 Material between                          | Other O well casing and protective pipe:  |
| Hollow Stem At   | nger 🛘 41 🔯   |   | Bentonite □ 30  |
|  | ther 🗆 🕌  |   | S.M.D. Other DK   |
| 15. Drilling fluid used: Water 0 2                     | Air 🗆 01  | 5. Amular space se                          | al: a. Granular/Chipped Bentonite [A 33] mud weight Bentonite-sand slurry [] 35 |
| Drilling Mud 🗆 0 3                                     | Nomes 🗆 99  |   | and weight Bentonite slurry D 31  |
| 16. Drilling additives used7                           | Yes 🗆 No  |   | ite Bentonite-cement grout 5 0  |
|  |   | f. How installed                            | ovolume added for any of the above Tremie  01                                   |
| Describe 17. Source of water (attach analysis, if requ | rired):   |   | Tremie pumped D 02  |
| 11, bombo et water (castar Emilyard (1104)             |   | 6. Bentonite scal:                          | Gravity 2 08  a. Bentonite granules 1 33  |
| Cla A  |   |   | 13/8 in. 1/2 in. Bentonite chips 2 32   |
| E. Bentoniie seal, topft. MS                           | Lorn  | [ ] c,                                      | Other D   |
| F. Fine sand, top                                      | Lorft   | LIXE /                                      | all Manufacturer, product name & mesh size                                      |
| G. Filter pack, top 92 Grt. MS                         | Lorft   | a American b. Volume adde                   |   |
|  | - Fill  | 8. Filter pack mater                        | ial: Manufacturer, product name & mesh size                                     |
|  | Lorft.  | a American                                  | Materials Red Flint,  |
| I. Well bottom   | LorfL   | 9. Well casing:                             | Flush threaded PVC schedule 40   23   |
| J. Filter pack, bottom 82.3ft MS                       | Lorf.   |   | Fhuh threaded PVC schedule 80 0 24 Other 0 33                                   |
| K. Borchole, bottom &2.3 ft MS                         | LorA  | 10. Screen material:<br>a. Screen type:     | Factory cut   11  |
| 9.5  |   |   | Continuous slot   01  |
| L. Borehole, diameter in.                              | ·   | Sch 40                                      | Other 🗆 🚉   |
| M. O.D. well easing _Z. 55 in.                         |   | b. Manufacturer c. Slot size:               | 0, <u>C(0</u> in.   |
| N. 1.D. well casing 2.00 in.                           |   | d. Slotted length                           | (below filter pack): None 2 14  |
| I hereby certify that the information on this          | form is true and correct to the h                     | est of my knowledge.                        | Other D   |
| Signature / C   Signature                              | /)  |   |   |
|  | Midwe   | st Engineering Service                      | PS  |

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| S | cate of Wisconsin  pastment of Natural Resource | ES |
|---|---|----|
|   | <b>II</b>                                       |    |

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Route to: Watershed/Wastew   | vater 🔲                              | Waste Management                                 |  |  |   |
|--|--------------------------------------|--|--|--|---|
| Remediation/Rede   | velopment 🔯                          | Other  |  |  |   |
| acility/Project Name   | County Name                          |  | Well Name                                    |  |   |
| Forwar Wilson Manter Sazzinamos  |                                      | AUKEE  | MW-  | -9   |   |
| Facility License, Permit or Monitoring Number  | County Code                          | Wis. Unique Well N                               | umber  | DNR Wel                                      | I ID Number   |
|  | 41                                   | <u>21.</u>                                       | 910  | İ  |   |
| 1. Can this well be purged dry?  | s 🗆 No                               | 11. Depth to Water (from top of                  |  |  | After Development   |
| Well development method surged with bailer and bailed  4   | •                                    | well casing)                                     | a  | <u>v                                    </u> |   |
| surged with bailer and pumped  surged with block and bailed  surged with block and pumped  surged with block, bailed and pumped  compressed air  bailed only  pumped only  pumped slowly  Other  3. Time spent developing well | 1<br>2<br>2<br>0<br>0<br>0<br>1<br>0 | Date   | c. <u>l O</u> : O  Clear  Turbid  (Describe) | 8 □ p.m. O inches 0 5                        | 23 0 3 / 0 3 / 2003 y m m d d y y y y  12:15 p.m.  _ 0 0 inches  Clear 20  Turbid 25 (Describe) Clear |
| Depth of well (from top of well casisng) $-11$   | <u>. 5</u> ft.                       |  |  | <del></del>                                  |   |
| Inside diameter of well  | <u> </u>                             |  |  |  |   |
| Volume of water in filter pack and well casing  Volume of water removed from well  Volume of water added (if any)  Source of water added   | gal.                                 |  |  | mg/l   | t solid waste facility:mg/l   |
| Analysis performed on water added?   (If yes, attach results)  | s 🗆 No                               | 16. Well developed to First Name: And Firm: Mrdh | by: Name (first,<br>lrew<br>est En           | last) and Firm  Last Nam  A (hear)           | e: La Vizue<br>ng Sepuites  |
| _ Additional comments on development:  |                                      |  |  | v  | U   |
| Slight petrolaum od  |                                      |  | ·  |  |   |
| Time and Address of Facility Contact/Owner/Responsible  First Last Puchware  Name: Puchware  |                                      | I hereby certify the of my knowledge.            |  | ıformation i                                 | is true and correct to the best   |
| Facility/Firm: MPL Restry  |                                      | Signature:                                       | fila   | 121  |   |
| Set: W302 N6015 Spanes   | 12011                                | Print Name:                                      | ichson 1                                     |  | 246-87DL  |
| City/State/Zip: 1 WRTLAWY WI S   | 3029                                 | Firm:  | 3. La  | <u>, , S , </u>                              |   |

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Route to: Watershed/Wastewa   | ıter 🔲           | Waste Management                       |  |                  |                                      |
|---|------------------|--|--|------------------|--------------------------------------|
| Remediation/Redeve  | Other            |  |  |                  |                                      |
|   | County Name      |  | Well Name                                |                  | •                                    |
| Facility License, Permit or Monitoring Number C   | Make             | Wis. Unique Well No                    | _  | MW.              | •                                    |
| Facility License, Permit or Monitoring Number C   | County Code      | Wis. Unique Well No<br>PL              | umber<br>- 556                           | DNR Wel          | 1 ID Number                          |
| 1. Can this well be purged dry? Yes   | □ No             | 11. Depth to Water                     |  |                  | After Development                    |
| 2. Well development method surged with bailer and bailed 4 1                                  |                  | (from top of well casing)              | a <u>13</u> .                            | <u>23</u> n.     | _ <u>18,4</u> 3n.                    |
| surged with bailer and pumped   |                  | Date                                   | $b.\frac{O1}{m} \frac{1}{d} \frac{Q}{d}$ | 1 2 0 0<br>y y y | 4 01/19/2004<br>y m m d d y y y y    |
| surged with block, bailed and pumped  |                  | Time                                   | c <u>q</u> : <u>1</u> §                  | _   a.m.<br>     | 10:50 p.m.                           |
| pumped only 51 pumped slowly 55   |                  | 12. Sediment in well<br>bottom         | _ Q.                                     | (inches          | OO. O inches                         |
| Other   3. Time spent developing well   9   |                  | 13. Water clarity                      | Clear [] 1<br>Turbid [] 1<br>(Describe)  | 5                | Clear (20<br>Turbid 25<br>(Describe) |
| 4. Depth of well (from top of well casising)  | ∑min.<br>≥ ft.   |  |  |                  | (Describe)                           |
| 5, Inside diameter of well  | <u>O</u> in.     |  |  |                  |                                      |
| 6. Volume of water in filter pack and well casing   | 3 gal.           |  |  |                  |                                      |
| 7. Volume of water removed from well  | O gal.           |  |  |                  | t solid waste facility:              |
| 8. Volume of water added (if any)   | ∑gal.            | solids                                 |  | mg/r             |                                      |
| 9. Source of water added  |                  | 15. COD                                |  | -                | mg/l                                 |
| 10. Analysis performed on water added?  (If yes, attach results)                              | DXN <sub>0</sub> | 16. Well developed b  First Name: LA   | •  | -                | これでからないない!                           |
| 17. Additional comments on development:   |                  | h                                      | <del></del>                              |                  |                                      |
| No obvious obors,   |                  |  |  |                  |                                      |
|   |                  |  |  |                  |                                      |
| Name and Address of Facility Contact/Owner/Responsible First  Name: Last PUENNER  Name: Name: | =                | I hereby certify that of my knowledge. | at the above inf                         | ormation is      | s true and correct to the best       |
| Facility/Firm: OPL Rahaing  |                  | Signature:                             | 1 in (a)                                 | 121              |                                      |
| , , ,   | orRs.            |  | 10 MARS                                  | <u>w.</u> 6      | SHELDT .                             |
| City/State/Zip: 1 + AR TAND WI  | 53029            | Firm: 0                                | 1, E. C.                                 | ·····            |                                      |

State of Wisconsin Department of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Route to: Watershed/Wastewater   | 1 , 7   | Waste Management   |
|--|---------|--|
| Remediation/Redevelopmen   | nt 🔯 🕠  | Other  |
| Facility/Project Name   County   | Name    | Well Name  |
| Former W. 232 MARAL Spariments 1)  | 1 run   | VEST PZ-1  |
| Facility License, Permit or Monitoring Number County 6   | Code (V | Wis. Unique Well Number DNR Well ID Number   |
| 1. Can this well be purged dry?  |         | Before Development After Development  1. Depth to Water  |
| 2. Well development method surged with bailer and bailed   |         | (from top of well casing)  Date $b = \frac{\sqrt{8} \cdot 23}{m m} \text{ ft.} \qquad \frac{\sqrt{9} \cdot 42}{d y y y y m m} \text{ ft.}$ Time $c = \frac{9 \cdot 30}{m m} \text{ ft.} \qquad \frac{\sqrt{9} \cdot 42}{m m} \text{ ft.}$  |
| pumped only  | ľ       | 2. Sediment in wellOinchesOinches bottom 3. Water clarity Clear 10 Clear 10 20 Turbid 15 Turbid 25   |
| 3. Time spent developing well65 min.   |         | (Describe) (Describe)  |
| 4. Depth of well (from top of well easising)   |         | Diger Bommith.   |
| 5. Inside diameter of well   | İ       | ( de l'all d |
| 6. Volume of water in filter pack and well casing  7. Volume of water removed from well  8. Volume of water added (if any)  9 gal. | F       | ill in if drilling fluids were used and well is at solid waste facility:  14. Total suspended mg/l mg/l solids   |
| 9. Source of water added   | _ 1     | 5. COD mg/l  |
| 10. Analysis performed on water added? Yes [] Yes [] Yes. (If yes, attach results)   | No      | 6. Well developed by: Name (first, last) and Firm  First Name: Au Last Name: Twenty see  Firm: in E.S.   |
| No obvious obors,  |         |  |
| Name and Address of Facility Contact /Owner/Responsible Party  |         | I hereby certify that the above information is true and correct to the best  |
| Facility/Firm:   |         | of my knowledge. Signature:  |
| Facility/Firm: OPPL KERALTY  Street: W302 N 6015 Spence (  |         | Print Name: M. CIMOL W. REMECTOR   |
|  |         | Firm: M.E.S.   |