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## **Phase 3 Investigation Former Northwoods Laundry Minocqua, Wisconsin**

**WisDOT Project I.D. 0651-50-10  
RMT Project #10742.01**

**January 2002**

*Prepared For  
Wisconsin Department of Transportation*

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# Executive Summary

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## Background

The former Northwoods Laundry property was purchased by the Wisconsin Department of Transportation (WisDOT) as part of the reconfiguration of USH 51 in Minocqua, Wisconsin. Following Phase 2 and Phase 2 ½ investigations in 1993 and 1994, PCE impacts to shallow soil (0.5 to 4 feet) at the former Northwoods Laundry were delineated in the southeastern quarter of the site. A remedial plan was implemented in 1996, during which 350 tons of PCE-impacted soil were removed from the site. The Wisconsin Department of Natural Resources (WDNR) closed the activity at this site in 1996. In 1998, the WDNR reopened the former Northwoods Laundry site due to detections of PCE and TCE in groundwater sampled at two adjacent Petroleum Environmental Cleanup Fund Administration (PECFA) sites. The purpose of this Phase 3 investigation was to determine the extent of tetrachloroethene (PCE) and trichloroethene (TCE) impacts to groundwater in the vicinity of the former Northwoods Laundry.

## Phase 3 Investigation

During the week of November 5, 2001, RMT, Inc. (RMT), conducted a Phase 3 investigation to define the nature and extent of PCE and TCE groundwater impacts in the area. Groundwater samples were collected from 10 existing monitoring wells at the two adjacent PECFA sites (Z-Best and New Concord Inn sites), and from six soil borings that were advanced to the water table in and around the former Northwoods Laundry property. All investigative borings were logged in the field and screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Temporary wells were installed in the soil borings, and groundwater samples were collected. A total of 16 groundwater samples were sent for laboratory analysis of VOCs.

The groundwater beneath the former Northwoods Laundry contained low concentrations of PCE (6.5 and 8.7 µg/L) and no detections of TCE or daughter products. PCE was detected in all the wells sampled at the Z-Best site, at concentrations approximately 10 to 20 times higher (42-180 µg/L) than in the temporary wells at the former Northwoods Laundry site, suggesting that the source of chlorinated solvents in the area is located west of the former Northwoods Laundry. While groundwater contamination above drinking water standards is present at the former Northwoods Laundry, the quantity and extent of PCE in the groundwater are not consistent with that of a source area. The WisDOT should not be required to perform

additional investigations or remediation of the groundwater impacts in the vicinity of the former Northwoods Laundry site.

# Section 1

## Introduction

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### 1.1 Purpose and Scope

The purpose of this investigation was to determine the extent of impacted groundwater that may be present in the vicinity of the former Northwoods Laundry in the USH 51 corridor, in Minocqua, Wisconsin (Figure 1). The Phase 3 investigation focused on determining the extent of tetrachloroethene (PCE) and trichloroethene (TCE) impacts to groundwater at the location of the former Northwoods Laundry and in adjacent areas where previous sampling had detected these constituents.

The tasks performed as part of this investigation were as follows:

- Observed and documented the installation of six Geoprobe® borings to depths of 24 to 28 feet at the location of the former Northwoods Laundry and in the surrounding rights-of-way. Temporary wells were installed in the borings to depths of approximately 23 feet.
- Field-screened soil samples for VOCs using a photoionization detector (PID).
- Collected groundwater samples from six temporary wells using low-flow techniques. An additional 10 groundwater samples were collected from permanent groundwater monitoring wells at the adjacent Z-Best Auto Detailing (Z-Best) and New Concord Inn Petroleum Environmental Cleanup Fund Administration (PECFA) sites. Groundwater samples were analyzed in the laboratory for chlorinated and nonchlorinated VOCs.
- The six temporary wells and the 10 existing wells were surveyed to a common datum.

### 1.2 Background

The former Northwoods Laundry is located in a mixed commercial and residential area in the town of Minocqua. The history of this area has been reviewed in previous investigations of the former Northwoods Laundry and adjacent properties. The earliest records of industrial use in the area are from the 1920s, with warehouses and railroad tracks north of the former Northwoods Laundry. Oil tanks were present in this industrial area, and a Standard Oil Bulk Facility was located approximately 300 feet northeast of the former Northwoods Laundry during this time. A gasoline service station was located 50 feet north of the former Northwoods Laundry in the 1960s.

The site of the former Northwoods Laundry was originally developed as a hotel and tavern in the early 1900s. In the mid-1960s, the former building was built and housed Foltz Realty and a liquor store. Northwoods Laundry and Dry Cleaning took over the liquor store portion of the

former building in the 1970s. The dry cleaning operation portion of the company ceased in 1992. The WisDOT acquired the site in 1995 for the realignment of USH 51 in Minocqua.

A Phase 2 Environmental Site Assessment (ESA) was performed for the WisDOT by Giles Engineering Associates, Inc. (Giles), within the proposed USH 51 right-of-way acquisition area in 1993. The results of the Phase 2 ESA indicated that soil in the area of the former Northwoods Laundry contained residual PCE. A Phase 2 ½ ESA was performed by Giles in 1994 to define the extent of PCE in the soil and to investigate groundwater in the proposed USH 51 right-of-way. The results of the Phase 2 ½ ESA indicated that the PCE-impacted soil at the former Northwoods Laundry was limited to a depth of 0.5 to 4 feet. Groundwater collected from two “grab” samples in borings B-4 and B-7 (Figure 2) contained PCE at concentrations above the WDNR Enforcement Standard (ES). In addition, TCE was measured in one of the groundwater samples at a level exceeding the WDNR Preventive Action Limit (PAL). A third compound, cis-1,2-dichloroethene (cis-1,2-DCE), was detected in one of the groundwater grab samples at a level below the PAL.

Additional soil borings were installed by RMT in 1996 to further define the extent of PCE-impacted soil. The results of the investigations showed that PCE was limited to the eastern end of the former Northwoods Laundry site at concentrations ranging from 2.1 µg/kg to 3,100 µg/kg. Impacted soil was limited to the upper 2 feet over the majority of the area; however, PCE was detected to a depth of 4 feet below grade at two locations. The analytical results of the 24 borings and two groundwater samples are included in Appendix A. In summary, Giles and RMT drilled 24 soil borings at the former Northwoods Laundry site, with five borings extending 17 feet below ground surface; and the extent of VOCs in soil was limited to the upper 4 feet.

The data from these investigations were included in the Remedial Action Plan (RAP) dated July 12, 1996. Approximately 350 tons of PCE-impacted soil were removed by overexcavation and treated by incorporation in asphalt. A map showing the limits of excavation is included in Appendix A. The groundwater was not remediated due to the presence of PCE groundwater contamination at other local site investigations in the area (New Concord Inn, Bassett Jewelers, and No Sweat Clothing Co.), indicating a regional problem. Remedial activities were documented in a letter dated September 19, 1996, from the Wisconsin Department of Transportation (WisDOT) to the Wisconsin Department of Natural Resources (WDNR). The WDNR approved closure for the former Northwoods Laundry site in a letter dated October 10, 1996.

During the time the soil at the former Northwoods Laundry was investigated and remediated, two adjacent properties were involved with PECFA-funded activities. The Z-Best Auto Detailing site (WDNR Activity Number 03-44-001150) was investigated in 1995 and found to

have petroleum impacts to groundwater. The New Concord Inn East/Site 2 (WDNR Activity Number 03-44-000829) was investigated in 1994 and was also found to have petroleum impacts to groundwater. During the investigations at Z-Best and New Concord Inn, full VOC analyses were only performed on the first groundwater sample collected from each monitoring well. PCE and TCE were detected in five wells (Z-Best MW-2, Z-Best MW-3, Z-Best MW-4, Z-Best MW-5, and Z-Best MW-6) at the Z-Best site at concentrations ranging from 8.1 µg/L to 160 µg/L and 30 µg/L to 160 µg/L, respectively. PCE and TCE were detected in one well (New Concord Inn MW-6) at the New Concord Inn site at 470 µg/L and 160 µg/L, respectively. The results of the previously reported groundwater impacts from 1994 are shown on Figure 2.

On September 9, 1998, the WDNR reopened the former Northwoods Laundry site due to the presence of chlorinated VOCs in groundwater samples from the adjacent sites. RMT, Inc. (RMT), was retained by the Wisconsin Department of Transportation (WisDOT) to investigate the extent of PCE and TCE impacts in the groundwater at the former Northwoods Laundry.

RMT's on-site field representatives for this project were:

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RMT, Inc.  
744 Heartland Trail  
Madison, Wisconsin 53717  
(608) 662-5331

RMT's Geoprobe® contractor for this project was:

SGS, Inc. (SGS)  
W4490 Pope Road 12-7  
Merrill, Wisconsin 54452  
(715) 539-2661

RMT's survey contractor for this project was:

Coleman Engineering Company  
200 E. Ayer Street  
Ironwood, Michigan 49938  
(906) 932-5048



# Section 2

## Description of the Site Activities

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### 2.1 Overview

On November 5, 2001, RMT, Inc. (RMT), mobilized to the former Northwoods Laundry site in Minocqua to conduct a Phase 3 investigation to define the nature and extent of PCE and TCE in groundwater. RMT reviewed all available data from previous site investigations in the area and identified 10 monitoring wells at two adjacent sites for groundwater sampling. Groundwater samples were collected on November 5 and 6, 2001, from monitoring wells at the Z-Best site and the New Concord Inn site. On November 7, 2001, SGS, Inc., advanced a total of six investigative borings to the water table in and around the former Northwoods Laundry property using Geoprobe® direct-push technology. The six investigative borings were located to provide information on the extent of PCE and TCE impacts in areas of previous detections as well as in the vicinity of the former Northwoods Laundry. A dense array of underground utilities at the corner of Front Street and USH 51 prevented the investigation of soil near the site of previous Boring B-7 and the abandoned well New Concord Inn MW-6 (Figure 2). All investigative borings were logged in the field and screened for VOCs using a photoionization detector (PID). Field observations of soil and groundwater are contained in the boring logs provided in Appendix B, and the water sample logs are provided in Appendix C.

Temporary wells were installed in the borings, and groundwater samples were collected on November 8, 2001. Coleman Engineering Company surveyed the existing monitoring wells and the temporary wells to a common datum. The temporary wells were abandoned by SGS on November 8, 2001. A total of 16 groundwater samples and a field duplicate were sent for laboratory analysis of VOCs. Field activities were completed on November 8, 2001.

### 2.2 Sampling Methods

Soil samples were collected using a direct-push soil sampler with a 4-foot-long, by 2-inch-I.D. stainless-steel sample barrel. New sample barrel liners were used for each sample interval. Aliquots of each soil sample were placed in resealable plastic bags and allowed to equilibrate. After approximately 25 minutes, a photoionization detector (PID) probe was inserted into the bag to sample the headspace above the soil sample. Temporary wells made of 1-inch-diameter Schedule 40 PVC with 5-foot-long factory-slotted screens were installed in the soil borings, and the native formation was allowed to collapse around the well.

Groundwater samples were collected from the temporary and existing wells using clean polyethylene tubing and a peristaltic pump. Samples were collected following stabilization of the following parameters: pH, conductivity, and temperature. Oxygen and oxidation-reduction potential (ORP) were also measured. Headspace-free groundwater samples were collected in 40-mL sample vials containing preservative (HCl), and were then placed on ice at 4°C and transported by courier for laboratory analysis.

# Section 3

## Results

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### 3.1 Site Geology

The geology in the Minocqua area is dominated by glaciofluvial deposits from the Wisconsinian age. The sandy aquifers in this area consist of glacial outwash and are characterized by high hydraulic conductivity. The subsurface material within the project area consists of uniform fine to medium sand from just below the surface to a depth of 28 feet. Trace amounts of clay and fine gravel were observed in four of the borings, but there was no evidence of any continuous units traceable between borings. The results are consistent with the observations made during site investigations at the adjacent properties and the regional geology. Boring logs are included in Appendix B.

### 3.2 Groundwater Flow

Groundwater in the Minocqua area is continuous with Minocqua Lake that surrounds the town. The closest distance to Minocqua Lake is approximately 600 feet north of the site. Groundwater flow at the adjacent sites has been reported to fluctuate between a northerly and a westerly direction. The water table at the Former Northwoods Laundry and surrounding sites was measured between approximately 16 and 18 feet below ground surface (Table 1).

During this investigation, the shallow groundwater had very small horizontal gradients, and the general direction of groundwater flow across the study area was barely measurable (Figure 3). The proximity of the Northwoods Laundry site to the center of the Town of Minocqua, which is surrounded by water (Figure 1), may result in variable flow directions. The groundwater flow direction in the area is expected to remain quite flat throughout the year, but subject to short-term changes in flow directions based on anthropogenic effects and precipitation events.

### 3.3 Field and Laboratory Analytical Data

No VOCs were detected from the PID field-screening in any of the soil borings. The PID readings are included on the individual boring logs in Appendix B. Results for the field-screening parameters (pH, conductivity, oxidation/reduction potential, oxygen, and temperature) are included on the individual water sample logs in Appendix C. EnChem, Inc., of Madison, Wisconsin, performed the laboratory analyses of the groundwater samples. A full scan of VOCs were analyzed for using EPA Method 8260. A summary of the laboratory

analytical results is included in Table 2. The laboratory analytical reports are contained in Appendix D.

### **3.4 Groundwater Chemistry**

Analytical results indicate that chlorinated aliphatic compounds are present in groundwater in the site vicinity. PCE; TCE; cis-1,2-DCE; and trans-1,2-DCE were detected in samples collected during the groundwater investigation (Table 2). The aromatic compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) were also detected. The aromatic compounds are associated with releases of petroleum products from the adjacent PECFA site.

Previous soil borings installed by Giles and RMT at the former Northwoods Laundry did not detect TCE or the DCE isomers. The previous groundwater samples from the former Northwoods Laundry site contained PCE; TCE; and cis-1,2-DCE. TCE and the DCE isomers are daughter products of PCE degradation, and may be present as a result of natural reductive dechlorination.

The results from the field-screening for dissolved oxygen (DO), conductivity, and pH were reviewed to determine if these parameters are correlated with groundwater contamination. The DO measured in wells was strongly correlated with the amount of BTEX present. In wells with high BTEX, the groundwater was anaerobic. In wells without high BTEX, the groundwater was aerobic. Conductivity measurements appeared to be quite elevated for natural waters (440 to 2,990  $\mu\text{mhos/cm}$ ), probably reflecting the influence of road salt. Measurements of pH ranged from 5.73 to 6.87 standard units and showed no evidence of acidic conditions in the anaerobic wells.

#### **3.4.1 Temporary Wells**

PCE was detected in five of six temporary wells. None of the other four aliphatic compounds and no petroleum-related VOCs were detected in these wells. PCE was detected above the NR 140 Enforcement Standard (5  $\mu\text{g/L}$ ) at TW-2 (6.5  $\mu\text{g/L}$ ) and TW-6 (8.7  $\mu\text{g/L}$ ) on the former Northwoods Laundry site. Low concentrations of PCE were also detected at the off-site temporary wells TW-4 (1.5  $\mu\text{g/L}$ ) and TW-5 (1.6  $\mu\text{g/L}$ ). TW-1, near the corner of eastbound Front Street and USH 51, had no detected VOCs.

#### **3.4.2 Z-Best Site**

Chlorinated VOCs were detected in the five permanent monitoring wells sampled at the Z-Best site. PCE was detected above the NR 140 Enforcement Standard in each well, with concentrations ranging from 42  $\mu\text{g/L}$  to 180  $\mu\text{g/L}$ . TCE was detected in all five wells at concentrations ranging from 1.6  $\mu\text{g/L}$  to 40  $\mu\text{g/L}$ . At three of the five wells,

TCE concentrations exceeded the NR 140 Enforcement Standard of 5 µg/L. Cis-1,2-DCE and trans-1,2-DCE were detected in four wells and one well, respectively, at concentrations ranging from 0.79 µg/L to 12 µg/L. Two of the wells at the Z-Best site also contained BTEX and other petroleum-related compounds at concentrations of 3,094 µg/L (MW-2) and 932 µg/L (MW-5) total BTEX.

### **3.4.3 New Concord Inn Site**

Two of the chlorinated VOCs were detected in two wells at the New Concord Inn site. PCE was detected at MW-4 and MW-11 at very low concentrations (0.49 µg/L to 0.84 µg/L, respectively). Cis-1,2-DCE was also detected in MW-11 at 6.6 µg/L. BTEX was detected in four of the five New Concord Inn wells at concentrations ranging from 12.3 µg/L to 221 µg/L total BTEX.

### **3.4.4 Trends in Groundwater Chemistry**

The groundwater monitoring performed during this investigation in November 2001 is the first time VOCs were sampled and analyzed by one party over a broader area at a point in time. The historical data for this area are a composite of samples collected by different consulting firms using different techniques. Thus, while spatial trends and temporal comparisons can be made, the data are of unknown quality.

The concentrations of PCE measured in historical borings B4, B7, and from New Concord Inn MW-6 in 1995 (130 µg/L, 410 µg/L, and 470 µg/L, respectively) were significantly higher than those measured at TW-2 (6.5 µg/L) and TW-6 (8.7 µg/L) in 2001. The concentrations of PCE measured in wells at the Z-Best site in 1995 were greater than (MW-2) and less than (MW-3 and MW-4) the PCE measured in 2001.

The variable groundwater chemistry measured in November 2001 in the USH 51 corridor indicates that conditions favorable to degradation of PCE are not present in all areas. At the former Northwoods Laundry, the aerobic conditions in each temporary well; the lack of a large carbon source, such as BTEX in the groundwater; and the lack of daughter products, such as TCE or the DCE isomers, indicate that conditions are not favorable for reductive dechlorination. In contrast, groundwater at the Z-Best site has low concentrations of dissolved oxygen, high concentrations of BTEX, and the daughter products of reductive dechlorination of PCE are present.

# Section 4

## Conclusions and Recommendations

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The former Northwoods Laundry is located in a mixed commercial area with a varied history, including numerous potential industrial and commercial sources of PCE and TCE. The subsurface investigation revealed a highly permeable sand aquifer consistent with the regional geology. The water table is flat and subject to varied flow direction in response to small-scale precipitation events. The groundwater chemistry in the area reflects the varied history in the area with BTEX and chlorinated solvent impacts.

The PCE-impacted soil at the former Northwoods Laundry site was delineated during previous investigations and subsequently remediated by overexcavation and off-site treatment. The past remedial efforts at the former Northwoods Laundry were effective in removing residual PCE from the soil at the former Northwoods Laundry site. Based on the results of this Phase 3 investigation, the former Northwoods Laundry does not appear to be the source of PCE groundwater contamination in the area. The presence of chlorinated hydrocarbons in wells at the Z-Best site at concentrations approximately 10 to 20 times higher than in wells at the former Northwoods Laundry site suggests that there is an alternate source. The previous investigations also support the finding that PCE groundwater contamination is not a result of the former Northwoods Laundry. The historical concentration of PCE was higher off-site at B7 and New Concord Inn MW-6 in 1994 than at on-site boring B6 (Figure 2). We conclude that groundwater in the vicinity of the former Northwoods Laundry is contaminated from an unknown source(s) owing, in part, to its location near the center of a small town. We recommend that no further action be required of the WisDOT at the former Northwoods Laundry site.

**Table 1**  
**Summary of Groundwater Elevations**  
**November 8, 2001**  
**WisDOT Former Northwoods Laundry Site**  
**WisDOT Project I.D. #0651-50-10**

WELL	TOP OF CASING ELEVATION (ft, M.S.L.)	DEPTH OF WELL (ft, bgs)	DEPTH TO WATER (ft/top of casing)	GROUNDWATER ELEVATION (ft, M.S.L.)
Z-Best MW-2	1602.62	27.41	17.37	1585.25
Z-Best MW-3	1603.24	27.77	18.03	1585.21
Z-Best MW-4	1603.44	23.01	18.22	1585.22
Z-Best MW-5	1603.00	23.69	17.82	1585.18
Z-Best PZ-1	1602.99	38.37	17.75	1585.24
New Concord Inn MW-4	1602.60	25.07	17.21	1585.39
New Concord Inn MW-5	1602.09	25.97	16.63	1585.46
New Concord Inn MW-9	1601.68	24.72	16.46	1585.22
New Concord Inn MW-10	1602.67	25.59	17.41	1585.26
New Concord Inn MW-11	1603.00	24.42	17.66	1585.34
TW-1 <sup>(1)</sup>	1604.32	23.50	19.00	1585.32
TW-2 <sup>(1)</sup>	1604.50	23.21	19.29	1585.21
TW-3 <sup>(1)</sup>	1606.23	23.41	21.06	1585.17
TW-4 <sup>(1)</sup>	1605.09	23.35	19.84	1585.25
TW-5 <sup>(1)</sup>	1604.64	23.78	19.45	1585.19
TW-6 <sup>(1)</sup>	1605.28	23.37	20.05	1585.23

Notes:

ft, bgs = feet below ground surface.  
ft, M.S.L. = feet above mean sea level.

Created by: PJT 12/01  
Checked by: LJB 12/20/01

- <sup>(1)</sup> Temporary wells were constructed of 1-inch-diameter Sch. 40 PVC with 5-foot factory-slotted 0.010-inch screens. Following sampling, each well was abandoned with bentonite chips.

**Table 2**  
**Summary of Groundwater Analytical Data**  
**November 2001**  
**WisDOT Former Northwoods Laundry Site**  
**WisDOT Project I.D. #0651-50-10**

WELL	PCE	TCE	CIS-1,2,-DCE	TRANS-1,2 DCE	TOTAL BTEX
<b>Groundwater Standard<sup>(1)</sup></b>	5	5	70	100	NA
<b>Z-Best Auto Detailing Site Monitoring Wells</b>					
Z-Best MW-2	120	40	12	ND	3,094 <sup>(2)</sup>
Z-Best MW-3	57	1.6	2.5	ND	ND
Z-Best MW-4	54	4.7	ND	ND	ND
Z-Best MW-5	42	14	10	0.79	932.4 <sup>(2)</sup>
Z-Best PZ-1	180	7	10	ND	ND
<b>New Concord Inn East/Site 2 Monitoring Wells</b>					
New Concord Inn MW-4	0.49	ND	ND	ND	221 <sup>(2)</sup>
New Concord Inn MW-5	ND	ND	ND	ND	13.1 <sup>(2)</sup>
New Concord Inn MW-9	ND	ND	ND	ND	ND
New Concord Inn MW-10	ND	ND	ND	ND	112.2 <sup>(2)</sup>
New Concord Inn MW-11	0.84	ND	6.6	ND	12.3 <sup>(2)</sup>
<b>Temporary Wells</b>					
TW-1	ND	ND	ND	ND	ND
TW-2	6.5	ND	ND	ND	ND
TW-3	2.9	ND	ND	ND	ND
TW-4	1.5	ND	ND	ND	ND
TW-5	1.6	ND	ND	ND	ND
TW-6	8.7	ND	ND	ND	ND

Notes:

Detection limits were below the Enforcement Standard for all compounds shown.

ND = not detected above the limit of detection.

NA = the NR 140 groundwater Enforcement Standards for the individual BTEX compounds are between 5 µg/L (benzene) and 10,000 µg/L (xylenes).

**Shading** = exceedence of groundwater Enforcement Standards.

<sup>(1)</sup> Wisconsin NR 140 groundwater quality Enforcement Standards.

<sup>(2)</sup> Additional volatile organic compounds, interpreted to be associated with petroleum impacts, were detected at these wells. See Appendix D for the complete list.

Created by: PJT 12/01

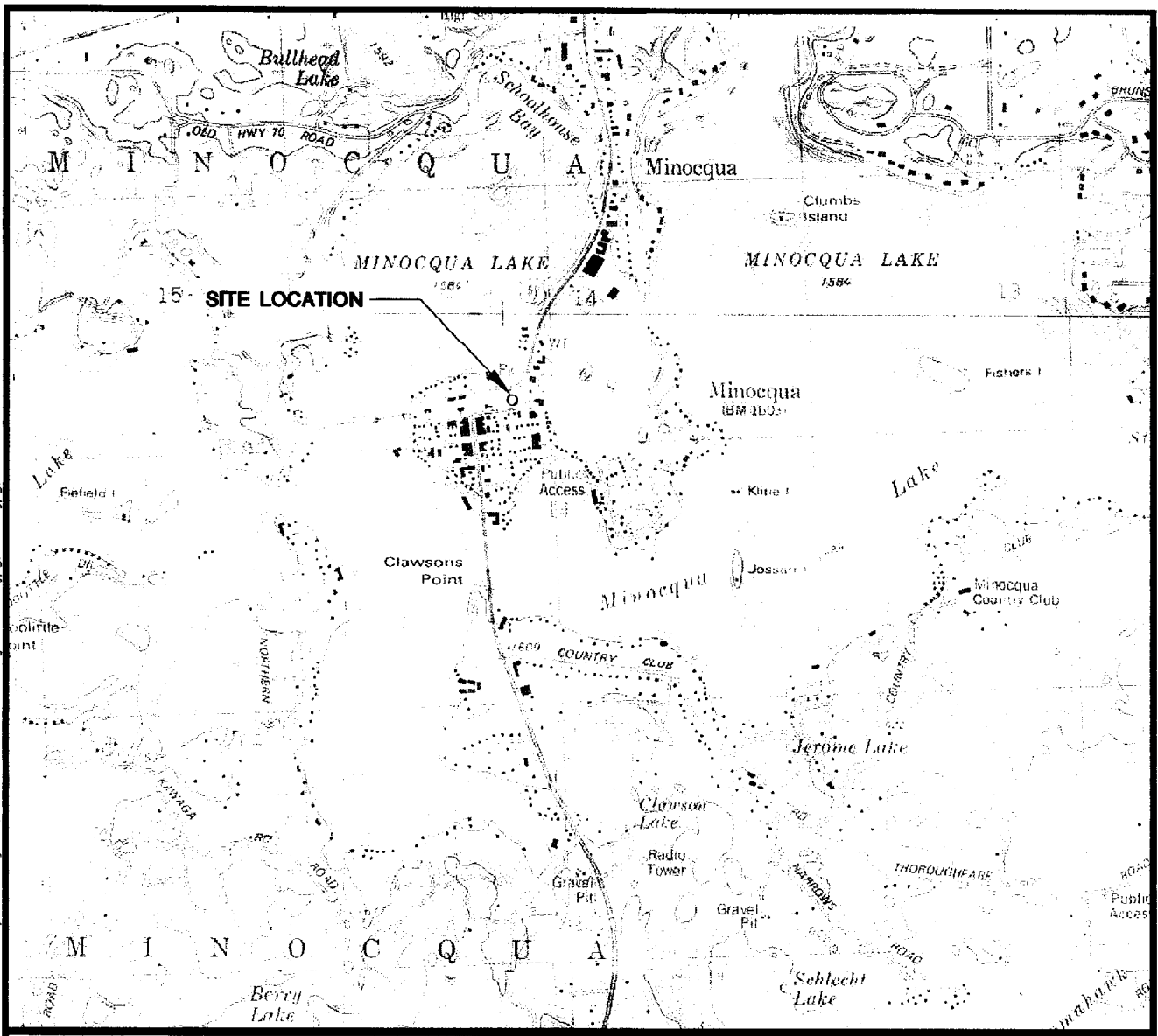
Checked by: LJB 12/01



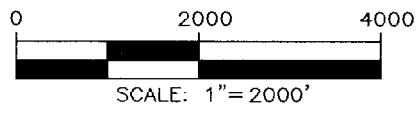
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 Attached Xrefs: No xrefs attached.  
 Plot Date: Wednesday, January 23, 2002  
 Attached Image s: site1.jpg; site2.jpg

Scale: 1"=2000'  
 Dwg Size: 50799 Bytes  
 Plot Date: Wednesday, January 23, 2002

J:\10742\01\107420101.dwg  
 Operator Name: wellonsk



**STATE LOCATION**  
 SECTION 14, T39N, R6E



SOURCE: BASE MAP FROM HAZELHURST (1982) AND WOODRUFF (1982)  
 7.5 MIN. USGS QUADRANGLE



**WISCONSIN DOT  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, WISCONSIN  
 WISDOT ID: 0651-50-10**

**SITE LOCATION MAP**

DRAWN BY:	WELLONSK
APPROVED BY:	
PROJECT NO.	10742.01
FILE NO.	107420101.DWG
DATE:	JANUARY 2002

**FIGURE 1**



# Appendix A

## Historical Soil and Groundwater Results

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FILE # 10  
 Project Name: 10585.03  
 General Name: 10585.03  
 Scale: 1"=20'  
 Date: 11/15/1986  
 Drawn by: WDK  
 Checked by: WDK  
 Approved by: WDK  
 Title: Final Excavation Map  
 Drawing No.: 10585.03.DWG

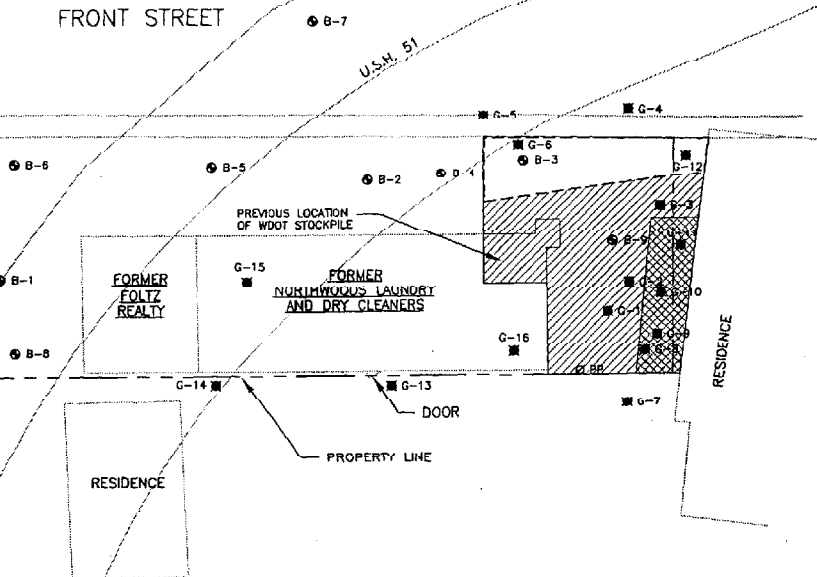
CHIPPEWA STREET

FRONT STREET

U.S.M. 51

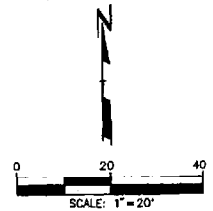
447+00

445+00



**LEGEND**

- G-3 GEOPROBE
- ⊙ B-3 BORING
- P.P. POWER POLE
- BUILDING LINE
- PROPERTY LINE
- ▨ EXTENT OF 4 FOOT EXCAVATION
- ▩ EXTENT OF 2 FOOT EXCAVATION
- ⋯ EXTENT OF 5 FOOT EXCAVATION BY THE WISDOT



**FINAL EXCAVATION MAP**  
 WISDOT FORMER NORTHWOODS LAUNDRY PROPEE  
 MINOCQUA WISCONSIN  
 WISDOT LD: 1175-05-22

	Drawn by: WDK
	APPROVED BY: <i>WDK</i>
	DATE: SEPTEMBER 19
	SERIAL # 10585.03 FILE # 0302.DWG

FIGURE 3 1/4

The results on this table are from 1994 and were included in the Remedial Documentation of September 19, 1996, by RMT.

**TABLE 1**

**SUMMARY OF SOIL LABORATORY ANALYSIS RESULTS  
SOIL BORINGS INSTALLED BY GILES ENGINEERING ASSOCIATES, INC.**

Parameters	Sample Depth (feet)	1,2-Dichloroethane (total)	Trichloroethene	Tetrachloroethene	Vinyl Chloride
B-1	2.3 - 5	< 1.1	< 1.1	1.2	< 1.1
	17 - 18.5	< 1.2	< 1.2	< 1.2	< 1.2
B-2	2.3 - 5	< 0.98	< 0.98	1.9	< 0.98
	19.5 - 21	< 1.1	< 1.1	< 1.1	< 1.1
B-3	2.3 - 5	< 1.0	< 1.0	54	< 1.0
	19.5 - 21	< 1.2	< 1.2	< 1.2	< 1.2
B-4	3 - 5	< 0.86	< 0.43	< 0.54	< 0.86
	15 - 17	< 0.81	< 0.40	< 0.50	< 0.81
B-5	0.5 - 2	< 0.89	< 0.44	1.6	< 0.89
	4 - 6	< 0.85	< 0.43	< 0.53	< 0.85
B-6	2 - 4	< 0.99	< 0.49	< 0.62	< 0.99
	4 - 6	< 0.93	< 0.46	< 0.58	< 0.93
B-7	3 - 5	< 0.86	< 0.43	< 0.54	< 0.86
	18 - 20	< 0.94	< 0.47	< 0.59	< 0.94
B-8	0.5 - 2	< 0.86	< 0.43	2.3	< 0.86
	4 - 6	< 0.86	< 0.43	< 0.54	< 0.86
B-9	0.5 - 2	< 4.0	< 2.0	360 E	< 4.0
	2 - 4	< 0.94	< 0.47	4.4	< 0.94

NOTES:

E Value lies outside calibration range of instrument.

The results on this table are from 1996 and were included in the Remedial Documentation of September 19, 1996, by RMT.

**TABLE 2**

**SUMMARY OF SOIL LABORATORY ANALYSIS RESULTS  
GEOPROBE® SOIL BORINGS INSTALLED BY RMT, INC.**

Parameters	Sample Depth (feet)	1,2-Dichloroethane (total)	Trichloroethene	Tetrachloroethene	Vinyl Chloride
G-1	0-2	<2.2	<1.1	33	<1.1
	2-4	<2.1	<1.1	<2.1	<1.1
	4-6	<2.2	<1.1	<2.2	<1.1
G-2	0-2	<120	<58	1,500	<58
	2-4	<2.3	<1.1	<2.3	<1.1
	4-6	<2.1	<1.1	<2.1	<1.1
G-3	0-2	<11	<5.7	68	<5.7
	2-4	<2.2	<1.1	<2.2	<1.1
	4-6	<2.3	<1.1	<2.3	<1.1
G-4	0-2	<2.2	<1.1	<18	<1.1
	2-4	<2.3	<1.1	<2.3	<1.1
	4-6	<2.5	<1.3	<2.5	<1.3
G-5	0-2	<2.2	<1.1	<2.2	<1.1
	2-4	<2.0	<1.0	<2.0	<1.0
	4-6	<2.0	<1.0	<2.0	<1.0
G-6	4-6	<2.1	<1.1	<2.1	<1.1
G-7	0-2	<25	<25	<25	<25
	2-4	<25	<25	<25	<25
	4-6	<25	<25	<25	<25
G-8	0-2	<25	<25	130	<25
	2-4	<25	<25	36	<25
	4-6	<25	<25	<25	<25
G-9	0-2	<25	<25	170	<25
	2-4	<25	<25	68	<25
	4-6	<25	<25	<25	<25
G-10	0-2	<25	<25	2,600	<25
	4-6	<25	<25	<25	<25
G-11	0-2	<25	<25	1,300	<25
	2-4	<25	<25	3,600	<25
	4-6	<25	<25	<25	<25
G-12	0-2	<25	<25	190	<25
	2-4	<25	<25	<25	<25
	4-6	<25	<25	<25	<25
G-13	0-2	<25	<25	<25	<25
	2-4	<25	<25	<25	<25
	4-6	<25	<25	<25	<25
G-14	0-2	<25	<25	<25	<25
	2-4	<25	<25	<25	<25
	4-6	<25	<25	<25	<25
G-15	0-2	<25	<25	<25	<25
	2-4	<25	<25	<25	<25
G-16	0-2	<25	<25	<25	<25
	2-4	<25	<25	<25	<25

TABLE 3

## RESULTS OF GROUNDWATER ANALYTICAL TESTING

Northwoods Laundry and Drycleaning (Site #3)  
 405 Front Street  
 Minocqua, Oneida County, Wisconsin  
 WDOT Project No. 1175-05-04  
 Project No. 1E-940730

DATE COLLECTED: August 16, 1994

Detected Volatile Organic Compounds (VOCs) (1)	Concentrations (ug/L)		Wisconsin Administrative Code Enforcement Standards (ES)	Wisconsin Administrative Code Preventive Action Limit (PAL)
	Test Borings (2)			
	4	7		
cis-1,2-Dichloroethylene	1.4	BQL	70	7
Methylene Chloride	7.8(a)	93*(b)	150	15
Tetrachloroethylene	130**	410**	5	0.5
Trichloroethylene	1.1*	BQL	5	0.5

- (1) Analytical test results expressed in micrograms per liter (ug/L), equivalent to parts per billion (ppb)
- (2) Test boring location shown on Map 3.
- VOCs Volatile organic compounds, for complete listing of compounds included in analysis see analytical reports in Section 3.9 (Appendix 9)
- (a) Analyte was found in and can be attributed to method blank.
- (b) Methylene chloride value can be attributed to laboratory background.
- BQL Below Quantification Limit
- \* Exceeds the Wisconsin Administrative Code NR 140.10 Preventive Action Limit (PAL)
- \*\* Exceeds the Wisconsin Administrative Code NR 140.10 Enforcement Standard (ES)

(1e940730.tb3)

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# Appendix B

## Soil Boring Logs

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RMT Field Soil Boring Log Information

RMT Project No:

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Project Name WisDOT Northwoods Laundry		Start Date 11/7/01	End Date 11/7/01	Boring Number TW-1
Boring Drilled By SLB inc.		Drilling Method Geo probe		
Drill Rig Dodge 2500	Common Well Name TW-1	Initial Water Level ~18' bgs	Surface Elevation	Borehole Diameter 2" Inches
Boring Location State Plane Easting 1/4 of 1/4 of Section T N,R		Local Grid Location (if applicable) SE corner of Chippewa + Front St. Northing <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County Oneida	State WI	DNR County Code	Civil Town/City/ or Village Minocqua	

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FIO	Standard Penetration	Well Diagram	ROD	Comments
			2	Sandy soil with 20% gravel. Sand lg fine to medium, dry 10YR 5/6	2" macrocore					
1	36"		4	SP, poorly graded fine to med. sand, few gravel, Munsell 10YR 5/6, loose, dry.	"	0				
2	3'		8	Same as above, but becoming trace gravel and a couple zones with trace silt.	"					
3	3'		12		"	0				
4	4'		16	some small laminations visible, possibly cross bedding, cm-scale	"	0				
				MOIST						
5	4'		20	saturated same as above	"	0	19'			
6	4'		24	E.O.B @ 24' bgs	"	0	24'			

Logged By: Peter Taglia

Checked By: [Signature]

RMT Field Soil Boring Log Information

RMT Project No: 10742.01

Page 47 of 53

Project Name Northwoods Wis DOT Laundry		Start Date 1/7/01	End Date 4/7/01	Boring Number TW-2
Boring Drilled By SGS, Inc. Jeff & Rho		Drilling Method Geoprobe		
Drill Rig Dodge 2500	Common Well Name TW-2	Initial Water Level <del>18</del> ~18 bgs	Surface Elevation	Borehole Diameter 2 Inches
Boring Location State Plane 1/4 of Easting 1/4 of Section		Northing T N,R		Local Grid Location (if applicable) Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County Oneida	State WI	DNR County Code	City/Town/Village MINDORA	

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PI0/F10	Standard Penetration	Well Diagram	RDV	Comments
				Sand + gravel fill concrete at 2.5' - 3.5' bgs						
1	3'		4		2" macrocore					
2	3'		8	SP, clean fine med sand 10YR 5/6 yellowish brn no odor, dry, loose.	"	0				
3	3'		12	Same as above	"	0				
4	4'		16	Same as above	"	0				
				— GW @ ~18' bgs						
5	4'		20		"	0				
				moist/saturated						
6	4'		24	Same as above	"					
				— E.O.B. @ 24' bgs						

Logged By: Peter Taglia  
Checked By: [Signature]

RMT Field Soil Boring Log Information

RMT Project No:

Page 48 of 53

Project Name WisDOT Northwoods Laundry		Start Date 11/7/01	End Date 11/7/01	Boring Number TW-3
Boring Drilled By SGS, Inc.		Drilling Method Geoprobe		
Drill Rig Dodge 2500 w/ GH-40	Common Well Name TW-1	Initial Water Level 18' bgs	Surface Elevation	Borehole Diameter 2 Inches
Boring Location State Plane 1/4 of 1/4 of Section		Northing T N,R		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County Oneida	State WI	DNR County Code	Civil Town/City/ or Village Minocqua	

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	ROD/ Comments
				Sandy soil, roots. (Fill)					
1			4'	SP, poorly graded fine/red sand, uniform, light yellow brn, 10%R 5/4, loose, dry.	Geoprobe Macro core				
2			8'	Same as above		0			
3			12'	Small chunks of clay, sandy clay, soft cohesion 10%R 4/4 dk. yellowish, brn. medium plasticity		0			
4			16'	Same as above.		0			
5			20'	Same as above Wet sand @ ~ 18' bgs		0		19' →	
6			24'	Same as above E.O.B. 24' bgs		0		24' →	1" PVC

Logged By:

Peter Taglio

Checked By:

Jenna

RMT Field Soil Boring Log Information

RMT Project No:

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Project Name WIS DOT Northwoods Laundry		Start Date 11/7	End Date 11/7	Boring Number TW-4
Boring Drilled By SGS, Inc. Jeff + <del>Rita</del> Rowe Klade Amis		Drilling Method Geoprobe		
Drill Rig Dodge 3500 w/ GH-40	Common Well Name TW-4	Initial Water Level 18' bgs	Surface Elevation	Borehole Diameter 2 Inches
Boring Location State Plane Easting Northing		Local Grid Location (If applicable)		
1/4 of	1/4 of Section	T	N,R	Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County Oneida	State NY	DNR County Code	Civil Town/City/ or Village MADOCWA	

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	ROD/ Comments
				Sandy soil to red sand. Dry, some root fragments, some gravel.					
1	36"		4'	SP, poorly sorted med/fine sandy uniform, 10YR 5/4, yellowish brn,	Geoprobe Macrocore				
2	48"		8'	SC, sandy clay 10YR 6/4 dk yellowish brn, nat-plastic no odor, soft	"				
				SP same as above					
3	48"		12'	Same as above	"	0			
4	48"		16'		"	0			
				→ saturation @ ~ 18' bgs					
5			20'	Sand as above.	"	0			
6			24'	Same as above - D.O.B. @ 24'	"	0			

Logged By: Pete Taghri	Checked By: Jan [Signature]
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RMT Field Soil Boring Log Information

RMT Project No:

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Project Name WisDOT Northwoods Laundry		Start Date 11/7/01	End Date 11/7/01	Boring Number TW-5
Boring Drilled By SGS, Inc. Jeff and Rowe		Drilling Method Geoprobe		
Drill Rig Geoprobe GH-40 Dodge Pickup	Common Well Name TW-5	Initial Water Level 18' bgs	Surface Elevation	Borehole Diameter 2 Inches
Boring Location State Plane Easting Northing		Local Grid Location (if applicable)		
County Oneida		State WI	DNR County Code	Civil Town/City/Village Minocqua

Number	Length (in) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PIU/FID	Standard Penetration	Well Diagram	ROD/Comments
1	36"		4'	Soil, sandy, some roots, few gravel Red <del>sand</del> sand, SP, 5YR 4/6 yellowish red grading into SP, fine sand, trace silt. no odor Grading into SP, fine/med. sand, uniform					
2	48"		8'	SC, sandy clay, low-non-plastic, medium dense 1.37g/cc 7.5YR 5/4 brown, ~70% fine sand 30% clay		0			
3	48"		12'	SP, fine/medium sand, uniform, 10YR 5/4, dry no odor		0			
4	48"		16'	Same as above		0			
5			20'	Same as above		0			
6			24'	Same as above		0			

Logged By: *[Signature]* Checked By: *[Signature]*

RMT Field Soil Boring Log Information

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RMT Project No:

Project Name <i>Northwoods Laundry</i>		Start Date <i>11/7/01</i>	End Date <i>11/7/01</i>	Boring Number <i>TW-6</i>
Boring Drilled By <i>Self + Rowe</i>		Drilling Method <i>Geoprobe</i>		
Drill Rig <i>Dodge P/U w/ GH-40</i>	Common Well Name <i>TW-6</i>	Initial Water Level <i>18' bgs</i>	Surface Elevation	Borehole Diameter <i>2</i> Inches
Boring Location State Plane Eastings                      Northings		Local Grid Location (if applicable)		
1/4 of	1/4 of Section	T	N, R	<input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W
County <i>Oreida</i>	State <i>WI</i>	DNR County Code	Civil Town/City/ or Village <i>Muskegon</i>	

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	ROD/Comments
				<i>Dark brown sandy soil, some gravel roots</i>					
<i>1</i>	<i>36</i>		<i>4</i>	<i>SP, poorly graded clean medium-fine sand, little gravel, some trace clay zones &gt;1" 10YR 4/6 dark yellowish brown, no odor, dry, loose.</i>	<i>Geoprobe</i>				
<i>2</i>	<i>36</i>		<i>8</i>	<i>Same as above, uniform no gravel</i>	<i>"</i>	<i>0</i>			
<i>3</i>	<i>36</i>		<i>12</i>	<i>Same as above</i>	<i>"</i>	<i>0</i>			
<i>4</i>	<i>48</i>		<i>16</i>	<i>Same as above</i>	<i>"</i>	<i>0</i>			
				<i>~ 18' bgs</i>					
<i>5</i>	<i>48</i>		<i>20</i>	<i>Some local gravel zones &gt;1" some trace coarse sand.</i>	<i>"</i>	<i>0</i>			
<i>6</i>	<i>48</i>		<i>24</i>		<i>"</i>	<i>0</i>			
<i>7</i>	<i>48</i>		<i>28</i>	<i>Same as above (top of sample was slough)</i>	<i>"</i>				<i>" PVC</i>
				<i>--- 28' bgs E.O.B.</i>					

Logged By <i>Peter Taylor</i>	Checked By: <i>Tommy R</i>
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# Appendix C

## Water Sample Logs

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# WATER SAMPLE LOG

744 Heartland Trail

Madison, WI 53717-8923

P. O. Box 8923 (Zip: 53708-8923)

(608) 831-4444

Sheet 15 of 53  
FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT</u> <u>Northwoods Laundry</u>	PREPARED By: <u>PST</u> Date: <u>11/7/01</u>	CHECKED By: <u>LJR</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: TW-1 WELL DIAMETER:  2"  4"  Other 1"  
 WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_  
 SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1500 DEPTH TO WATER: 18.97' + 0.00 TI PVC  
 WELL VOLUME: \_\_\_\_\_ gallons? DEPTH TO BOTTOM: 25' + TI  
 TOTAL VOLUME REMOVED: 42 gallons METHOD:  Bailer,  Pump, Peristaltic  
 ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Slight  Moderate  Very  
 DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1530 DATE: 11/7/01  
 ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Slight  Moderate  Very  
 pH: 6.15 CONDUCTIVITY: 1029 umhos/cm TEMPERATURE: 11.4 °C  
 COMMENTS: ORP = 131mV O<sub>2</sub> = 0.54mg/L CORRECTED CONDUCTIVITY: 50 + (1 + [0.0191 x (T - 25)])F: ATZ

**FILTRATE (0.45 µm)**  NOT APPLICABLE  
 ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H <sub>2</sub> SO4 D - NaOH E - HCL F - _____							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y</u> <u>(N)</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	

CHAIN-OF-CUSTODY NUMBER: ENCHEM 74308 DATE SHIPPED: 11/8/01 METHOD: Lourier via PLU  
 AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/7/01





# WATER SAMPLE LOG

Sheet 17 of 33

744 Heartland Trail

Madison, WI 53717-8923

P. O. Box 8923 (Zip: 53708-8923)

(608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT Northwoods Laundry</u>	PREPARED By: <u>PST</u> Date: <u>11/7/01</u>	CHECKED By: <u>LJB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
--	---	---	--------------------------------

SAMPLE NO.: TW-2 WELL DIAMETER:  2"  4"  Other 1"  
 WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_  
 SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1540 DEPTH TO WATER: 19.20 + 0.00 11 PVC  
 WELL VOLUME: \_\_\_\_\_ gallons DEPTH TO BOTTOM: 25' total PVC length  
 TOTAL VOLUME REMOVED: 3.5 liters gallons METHOD:  Bailor, \_\_\_\_\_  Pump, Peristaltic  
 ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Moderate  
 Slight  Very  
 DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1600 DATE: 11/7/01  
 ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Moderate  
 Slight  Very  
 pH: 10.26 CONDUCTIVITY: 538 umhos/cm TEMPERATURE: 11.5 °C  
 COMMENTS: ORP = 37mV O<sub>2</sub> = 2.10 mg/l CORRECTED CONDUCTIVITY: SC + ((1 + (0.0131 \* (T - 25))) ATC

**FILTRATE (0.45 µm)**  NOT APPLICABLE  
 ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H <sub>2</sub> SO4 D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y/N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>

CHAIN-OF-CUSTODY NUMBER: Enchem 74308 DATE SHIPPED: 11/8/01 METHOD: Courier via PLU  
 AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/8/01

2



# WATER SAMPLE LOG

Sheet 19 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>WisDOT Northwoods Laundry</u>	PREPARED By: <u>PJT</u> Date: <u>11/7/01</u>	CHECKED By: <u>LSB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
---	--	--	-----------------------------

SAMPLE NO.: TW-3 WELL DIAMETER:  2"  4"  Other 1"

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1630 DEPTH TO WATER: 21.02' 0.00' TI PVC

WELL VOLUME: \_\_\_\_\_ gallons DEPTH TO BOTTOM: 25' + total PVC length TI

TOTAL VOLUME REMOVED: 3.3L gallons METHOD:  Bailor  Pump Peristaltic

ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Slight  Moderate  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1650 DATE: 11/7/01

ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Slight  Moderate  Very

pH: 6.22 CONDUCTIVITY: 6000  $\mu\text{mhos/cm}$  TEMPERATURE: 9.6 °C

COMMENTS: ORP = 94 mV O<sub>2</sub> = 5.14 mg/L CORRECTED CONDUCTIVITY:  $SC = \{T + [0.0191 \times (T - 25)]\}$ : ATZ

**FILTRATE (0.45  $\mu\text{m}$ )**  NOT APPLICABLE

ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES:						
			A - None B - HNO <sub>3</sub> C - H <sub>2</sub> SO <sub>4</sub> D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>glass</u>	<u>E</u>	<u>Y (N)</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>

CHAIN-OF-CUSTODY NUMBER: Enchem 74308 DATE SHIPPED: 11/8/01 METHOD: carrier via P/L

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/7/01

3



# WATER SAMPLE LOG

Sheet 21 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT</u> <u>Northwoods Laundry</u>		PREPARED	CHECKED		PROJECT NO.
By: <u>PJT</u>	Date: <u>11/7/01</u>	By: <u>LJB</u>	Date: <u>11/27/01</u>	<u>10742.01</u>	

SAMPLE NO.: TW-4 WELL DIAMETER: ~~4"~~  4"  Other 1"

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1712 DEPTH TO WATER: 19.81 + 0.00 TI PVC

WELL VOLUME: \_\_\_\_\_ gallons DEPTH TO BOTTOM: 25 - total PVC length TI

TOTAL VOLUME REMOVED: 6 Liters gallons METHOD:  Bailor  Pump Peristaltic

ODOR:  None COLOR: clear TURBIDITY:  None  Moderate  
 Other  Slight  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1740 DATE: 11/7/01

ODOR:  None COLOR: clear TURBIDITY:  None  Moderate  
 Other  Slight  Very

pH: 6.42 CONDUCTIVITY: 440 ATC umhos/cm TEMPERATURE: 12.1 °C

COMMENTS: ORP = 67mV O<sub>2</sub> = 3.46 mg/L CORRECTED CONDUCTIVITY:  $SC = (1 + [0.0191 \times (T - 25)])$ : ATC

**FILTRATE (0.45 μm)**  NOT APPLICABLE

ODOR:  None COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_  
 Other \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES:						
			A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>10ml</u>	<u>Glass</u>	<u>E</u>	<u>Y (N)</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>

CHAIN-OF-CUSTODY NUMBER: EW CHEM 74308 DATE SHIPPED: 11/8/01 METHOD: Courier via P/L

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/7/01



# WATER SAMPLE LOG

744 Heartland Trail

Madison, WI 53717-8923

P. O. Box 8923 (Zip: 53708-8923)

(608) 831-4444

Sheet 23 of 53  
FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT</u> <u>Northwoods Laundry</u>	PREPARED By: <u>PJT</u> Date: <u>11/8/01</u>	CHECKED By: <u>LJB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: TW-5 WELL DIAMETER:  2"  4"  Other 1"  
 WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_  
 SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1000 DEPTH TO WATER: 19.45+000 TI PVC  
 WELL VOLUME: \_\_\_\_\_ gallons DEPTH TO BOTTOM: 25 + Total PVC length TI PVC  
 TOTAL VOLUME REMOVED: 4 liters gallons METHOD:  Bailor, \_\_\_\_\_  Pump, Peristaltic  
 ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Moderate  
 Slight  Very  
 DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1020 DATE: 11/8/01  
 ODOR:  None  Other \_\_\_\_\_ COLOR: Clear TURBIDITY:  None  Moderate  
 Slight  Very  
 pH: 6.79 CONDUCTIVITY: 1059 umhos/cm TEMPERATURE: 11.7 °C  
 COMMENTS: ORP = 116mV O<sub>2</sub> = 5.20mg/L CORRECTED CONDUCTIVITY: SC + (1 + [0.0191 x (T - 25)]) AVC

**FILTRATE (0.45 μm)**  NOT APPLICABLE  
 ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H <sub>2</sub> SO4 D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>glass</u>	<u>B</u>	<u>Y</u> <u>(N)</u>					<u>Y</u> <u>N</u>
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>

CHAIN-OF-CUSTODY NUMBER: ENCHEM 74309 DATE SHIPPED: 11/8/01 METHOD: Courier via P/V  
 AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/8/01



# WATER SAMPLE LOG

Sheet 25 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT</u> <u>Northwoods Laundry</u>	PREPARED By: <u>PJT</u> Date: <u>11/8/01</u>	CHECKED By: <u>LSB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: TW-6 WELL DIAMETER:  2"  4"  Other 1"  
 WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_  
 SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 0915 DEPTH TO WATER: 20.06 ± 0.00 TI PVC  
 WELL VOLUME: \_\_\_\_\_ gallons DEPTH TO BOTTOM: 29.00 ± TI PVC  
 TOTAL VOLUME REMOVED: 4.5 liters gallons METHOD:  Bailer, \_\_\_\_\_  Pump, Peristaltic  
 ODOR:  None - COLOR: Brown TURBIDITY:  None  Moderate -  
 Other \_\_\_\_\_  Slight  Very  
 DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 0945 DATE: 11/8/01  
 ODOR:  None - COLOR: Clear TURBIDITY:  None -  Moderate  
 Other \_\_\_\_\_  Slight  Very  
 pH: 6.5 CONDUCTIVITY: 1225 ATC  $\mu\text{mhos/cm}$  TEMPERATURE: 11.4 °C  
 COMMENTS: ORP = 72mV O<sub>2</sub> = 3.49 mg/L CORRECTED CONDUCTIVITY:  $SC = (T + [0.0191 \times (T - 25)])$  ATC

**FILTRATE (0.45  $\mu\text{m}$ )**  NOT APPLICABLE  
 ODOR:  None COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_  
 Other \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES:				PRESERVATIVE CODES:			
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y</u> <u>(N)</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	

CHAIN-OF-CUSTODY NUMBER: ENCHAM 74309 DATE SHIPPED: 11/8/01 METHOD: Courier via p/u  
 AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/8/01



# WATER SAMPLE LOG

Sheet 27 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT Northwoods Laundry</u>	PREPARED		CHECKED		PROJECT NO. <u>10742.01</u>
	By: <u>PJT</u>	Date: <u>11/8/01</u>	By: <u>LJB</u>	Date: <u>11/27/01</u>	

SAMPLE NO.: Z-Best PZ-1 WELL DIAMETER:  2"  4"  Other 1"

WELL MATERIAL:  PVC  SS  Iron  Other

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other

**PURGING** TIME: 1245 DEPTH TO WATER: 17.75 + 0.00 TI PVC

WELL VOLUME: 3.2 gallons DEPTH TO BOTTOM: 37.25 + 0.27 TI PVC

TOTAL VOLUME REMOVED: 7 gallons METHOD:  Bailor,  Pump, Per installed

ODOR:  None - COLOR: Clear TURBIDITY:  None  Moderate  
 Other  Slight  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other

**SAMPLE** TIME: 1317 DATE: 11/8/01

ODOR:  None - COLOR: Clear TURBIDITY:  None  Moderate  
 Other  Slight  Very

pH: 6.60 CONDUCTIVITY: 1688 umhos/cm TEMPERATURE: 10.2 °C

COMMENTS: ORP = 119 mV O<sub>2</sub> = 0.32 mg/L CORRECTED CONDUCTIVITY: SC = (1 + [0.0191 x (T - 25)]): ATC

**FILTRATE (0.45 µm)**  NOT APPLICABLE

ODOR:  None COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_  
 Other

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F -						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y</u> <input checked="" type="checkbox"/>					<u>Y</u> <input type="checkbox"/>
				<u>Y</u> <input type="checkbox"/>					<u>Y</u> <input type="checkbox"/>
				<u>Y</u> <input type="checkbox"/>					<u>Y</u> <input type="checkbox"/>
				<u>Y</u> <input type="checkbox"/>					<u>Y</u> <input type="checkbox"/>

CHAIN-OF-CUSTODY NUMBER: EN CHEM 74309 DATE SHIPPED: 11/8/01 METHOD: Carrier via P/U

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/8/01



# WATER SAMPLE LOG

Sheet 29 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip. 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME: <u>WisDOT Northwoods Laundry</u>	PREPARED		CHECKED		PROJECT NO. <u>10742.01</u>
	By: <u>PST</u>	Date: <u>11/6/01</u>	By: <u>LSB</u>	Date: <u>11/27/01</u>	

SAMPLE NO.: Z-Best MW-2 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1615 DEPTH TO WATER: 17.36 + 0.00 TI PVC

WELL VOLUME: 1.5 gallons DEPTH TO BOTTOM: 26.30 + 0.27 TI PVC

TOTAL VOLUME REMOVED: 4.3 gallons METHOD:  Bailer  Pump Peristaltic

ODOR:  None  Other Gasoline COLOR: Clear TURBIDITY:  None  Moderate  Slight  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1640 DATE: 11/27/01

ODOR:  None  Other Gasoline COLOR: Clear TURBIDITY:  None  Moderate  Slight  Very

pH: 10.55 CONDUCTIVITY: 1225 ATC  $\mu\text{mhos/cm}$  TEMPERATURE: 12.4 °C

COMMENTS: ORP = -63 mV O<sub>2</sub> = 0.31 mg/l CORRECTED CONDUCTIVITY: SC - (1 + [0.0191 x (T - 25)]): ATC

**FILTRATE (0.45  $\mu\text{m}$ )**  NOT APPLICABLE

ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y (N)</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>

CHAIN-OF-CUSTODY NUMBER: Enchem 74308 DATE SHIPPED: 11/27/01 METHOD: Carrier via P/u

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/6/01

Note: This sample was not put on the COC.  
The lab added it to the COC.



# WATER SAMPLE LOG

Sheet 31 of 53  
FAX: (608) 831-3334

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

PROJECT NAME <u>Northwoods Laundry</u>	PREPARED By: <u>PST</u> Date: <u>11/5/01</u>	CHECKED By: <u>LJR</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: Z-Best mw-3 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_  
 WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_  
 SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1600 DEPTH TO WATER: 17.99' + 0.00 TI PVC  
 WELL VOLUME: 1.4 gallons x 6L DEPTH TO BOTTOM: 26.60' + 0.27 TI PVC  
 TOTAL VOLUME REMOVED: 4.65L gallons METHOD:  Bailor,  Pump, Peristaltic  
 ODOR:  None - COLOR: clear TURBIDITY:  None -  Moderate  
 Other \_\_\_\_\_  Slight  Very  
 DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1630 DATE: 11/5/01  
 ODOR:  None - COLOR: clear TURBIDITY:  None -  Moderate  
 Other \_\_\_\_\_  Slight  Very  
 pH: 6.33 CONDUCTIVITY: 1450 umhos/cm TEMPERATURE: 11.4 °C  
 COMMENTS: ORP = 173 mV O2 = 3.55 mg/L CORRECTED CONDUCTIVITY =  $SC = (1 + 0.0191 \times (T - 25))$  ATC

**FILTRATE (0.45 µm)**  NOT APPLICABLE  
 ODOR:  None COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_  
 Other \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
<u>3</u>	<u>40ml</u>	<u>glass</u>	<u>E</u>	<u>Y</u> <input checked="" type="checkbox"/>					<u>Y</u> <input type="checkbox"/>	
				<u>Y</u> <input type="checkbox"/>					<u>Y</u> <input type="checkbox"/>	
				<u>Y</u> <input type="checkbox"/>					<u>Y</u> <input type="checkbox"/>	
				<u>Y</u> <input type="checkbox"/>					<u>Y</u> <input type="checkbox"/>	

CHAIN-OF-CUSTODY NUMBER: ENCHEN 74308 DATE SHIPPED: 11/8/01 METHOD: Courier P/U  
 AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/8/01





# WATER SAMPLE LOG

Sheet 33 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>WisDOT Northwoods Laundry</u>	PREPARED		CHECKED		PROJECT NO. <u>10742.01</u>
	By: <u>PJT</u>	Date: <u>11/5/01</u>	By: <u>LSB</u>	Date: <u>11/27/01</u>	

SAMPLE NO.: Z-Best MW-4 WELL DIAMETER:  2"  4"  Other 1"

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1708 DEPTH TO WATER: 18.19' + 0.00 TI PVC

WELL VOLUME: 3L gallons DEPTH TO BOTTOM: 22.45' + 0.27 TI PVC

TOTAL VOLUME REMOVED: 6 <sup>liters</sup> gallons METHOD:  Bailor,  Pump, Peristaltic

ODOR:  None  Other Petroleum COLOR: Clear TURBIDITY:  None  Moderate  Slight  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1737 DATE: 11/5/01

ODOR:  None  Other Petroleum COLOR: Clear TURBIDITY:  None  Moderate  Slight  Very

pH: 6.37 CONDUCTIVITY: 1683 umhos/cm TEMPERATURE: 12.3 °C

COMMENTS: ORP = 58mV O<sub>2</sub> = 0.34 mg/L CORRECTED CONDUCTIVITY:  $SC = (T - 10) \times 1.0191 \times (T - 25)^{-2}$ : ATC

**FILTRATE (0.45 µm)**  NOT APPLICABLE

ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO <sub>3</sub> C - H <sub>2</sub> SO <sub>4</sub> D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>GLASS</u>	<u>E</u>	<u>Y (N)</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>

CHAIN-OF-CUSTODY NUMBER: ENCHM 74308 DATE SHIPPED: 11/8/01 METHOD: Carrier P/U

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/8/01



# WATER SAMPLE LOG

744 Heartland Trail

Madison, WI 53717-8923

P. O. Box 8923 (Zip: 53708-8923)

(608) 831-4444

Sheet

35 of 53

FAX: (608) 831-3334

PROJECT NAME <i>WisDOT Northwoods Laundry</i>	PREPARED		CHECKED		PROJECT NO. <i>10742.01</i>
	By: <i>AJT</i>	Date: <i>4/6/01</i>	By: <i>LJB</i>	Date: <i>11/27/01</i>	

+ DUPLICATE

SAMPLE NO.: *Z-Best MW-5* WELL DIAMETER:  2"  4"  Other \_\_\_\_\_

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: *1510* DEPTH TO WATER: *17.77 ± 0.00* TI

WELL VOLUME: *1.3* gallons DEPTH TO BOTTOM: *25.45 ± 0.27* TI *PVC*

TOTAL VOLUME REMOVED: *8* <sup>1.5</sup> gallons METHOD:  Bailor,  Pump, *Peristaltic*

ODOR:  None  Other *Gasoline* COLOR: *Clear* TURBIDITY:  None  Moderate  Slight  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: *1540* DATE: *11/6/01*

ODOR:  None  Other *Gasoline* COLOR: *Clear* TURBIDITY:  None  Moderate  Slight  Very

pH: *6.87* CONDUCTIVITY: *642* umhos/cm TEMPERATURE: *13.7* °C

COMMENTS: *ORP = -9.2V O<sub>2</sub> = 0.19 mg/L* CORRECTED CONDUCTIVITY: *SC + (1 + [0.0191 x (T - 25)])*: *ATC*

**FILTRATE (0.45 µm)**  NOT APPLICABLE

ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<i>63</i>	<i>40ml</i>	<i>Glass</i>	<i>E</i>	<i>Y (N)</i>					<i>Y N</i>
				<i>Y N</i>					<i>Y N</i>
				<i>Y N</i>					<i>Y N</i>
				<i>Y N</i>					<i>Y N</i>

CHAIN-OF-CUSTODY NUMBER: *EXHIBIT 74308* DATE SHIPPED: *11/6/01* METHOD: *Courier via P/C*

AIRBILL NUMBER: *N/A* SIGNED: *[Signature]* DATE: *11/6/01*



# WATER SAMPLE LOG

Sheet 37 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Nonthwoods</u> <u>WisDOT Laundry</u>	PREPARED By: <u>PST</u> Date: <u>11/6/01</u>	CHECKED By: <u>LSB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: NCE MW-4 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

<b>PURGING</b>	TIME: <u>12:12</u>	DEPTH TO WATER: <u>17.14 ± 0.00</u> TI <u>PVC</u>
WELL VOLUME: <u>1.3</u> gallons		DEPTH TO BOTTOM: <u>24.55 ± 0.27</u> TI <u>PVC</u>
TOTAL VOLUME REMOVED: <u>5</u> <sup>liters</sup> gallons		METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, <u>Peristaltic</u>
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>Clear</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very
DISPOSAL METHOD: <input checked="" type="checkbox"/> Ground <input type="checkbox"/> POTW <input type="checkbox"/> Drum <input type="checkbox"/> Other _____		

<b>SAMPLE</b>	TIME: <u>12:40</u>	DATE: <u>11/6/01</u>
ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <u>Fuel</u>	COLOR: <u>Clear</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very
pH: <u>6.27</u>	CONDUCTIVITY: <u>1268</u> $\mu$ mhos/cm	TEMPERATURE: <u>13.1</u> °C
COMMENTS: <u>ORP = 101 mV O<sub>2</sub> = 6.19 mg/L CORRECTED CONDUCTIVITY: SC + (1 - (0.0191 x (T - 25))) = ATC</u>		

<b>FILTRATE (0.45 <math>\mu</math>m)</b>	<input checked="" type="checkbox"/> NOT APPLICABLE
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: _____ COMMENTS: _____

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H <sub>2</sub> SO4 D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>H</u>	<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>
				<u>Y N</u>					<u>Y N</u>

CHAIN-OF-CUSTODY NUMBER: ENCHEM 74308 DATE SHIPPED: 11/8/01 METHOD: Courier via PHV

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/6/01

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# WATER SAMPLE LOG

Sheet 39 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Wis DOT Northwoods Laundry</u>	PREPARED By: <u>EPST</u> Date: <u>11/6/01</u>	CHECKED By: <u>LSB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: NCF MW-5 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: 1700 DEPTH TO WATER: 16.63 + 0.00 TI PVC

WELL VOLUME: 1.5 gallons DEPTH TO BOTTOM: 25.49 + 0.27 TI PVC

TOTAL VOLUME REMOVED: 5.8 <sup>Liters</sup> gallons METHOD:  Bailor,  Pump, Peristaltic

ODOR:  None fuel - COLOR: None TURBIDITY:  None  Moderate  Slight  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 1725 DATE: 11/6/01

ODOR:  None Gasoline - COLOR: Clear TURBIDITY:  None  Moderate  Slight  Very

pH: 6.36 CONDUCTIVITY: 707 umhos/cm TEMPERATURE: 12.4 °C

COMMENTS: ORP = -41mV O<sub>2</sub> = .3 mg/L CORRECTED CONDUCTIVITY: SC = (1 + [0.0191 \* (T - 25)]): ATL

**FILTRATE (0.45 µm)**  NOT APPLICABLE

ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H <sub>2</sub> SO4 D - NaOH E - HCL F - _____							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y</u> <u>(N)</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	

CHAIN-OF-CUSTODY NUMBER: EnCHEM 74308 DATE SHIPPED: 11/6/01 METHOD: Lower via P/L

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/6/01



# WATER SAMPLE LOG

Sheet 41 of 53  
FAX: (608) 831-3334

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

PROJECT NAME <u>WisDOT Northwoods Laundry</u>	PREPARED By: <u>PST</u> Date: <u>11/6/01</u>	CHECKED By: <u>LJN</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: NGE MW-9 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_  
 WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_  
 SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

<b>PURGING</b>	TIME: <u>0826</u>	DEPTH TO WATER: <u>16.42 - 0.00</u> TI <u>PVC</u>
WELL VOLUME: <u>1.3</u> gallons	DEPTH TO BOTTOM: <u>24.2 + 0.27</u> TI <u>PVC</u>	
TOTAL VOLUME REMOVED: <u>1.5</u> gallons	METHOD: <input type="checkbox"/> Bailor, <input checked="" type="checkbox"/> Pump, <u>Peristaltic</u>	
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>Clean</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very
DISPOSAL METHOD: <input checked="" type="checkbox"/> Ground <input type="checkbox"/> POTW <input type="checkbox"/> Drum <input type="checkbox"/> Other _____		

<b>SAMPLE</b>	TIME: <u>0900</u>	DATE: <u>11/6/01</u>
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>Clean</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very
pH: <u>6.65</u>	CONDUCTIVITY: <u>781 ATC</u> $\mu\text{mhos/cm}$	TEMPERATURE: <u>11.3</u> °C
COMMENTS: <u>O<sub>2</sub> = 6.19 mg/L, ORP = 230, CORRECTED CONDUCTIVITY: SC = (1 + [0.0191 x (T - 25)]): ATC</u>		

<b>FILTRATE (0.45 <math>\mu\text{m}</math>)</b>	<input checked="" type="checkbox"/> NOT APPLICABLE
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: _____ COMMENTS: _____

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
<u>3</u>	<u>40ml</u>	<u>Glass</u>	<u>E</u>	<u>Y</u> <u>(N)</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>	

CHAIN-OF-CUSTODY NUMBER: ENCHEM 4308 DATE SHIPPED: 11/3 METHOD: Carrier via PV  
 AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/6



# WATER SAMPLE LOG

Sheet 43 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>Northwoods WisDOT Laundry</u>	PREPARED By: <u>AST</u> Date: <u>11/6/01</u>	CHECKED By: <u>LSB</u> Date: <u>11/27/01</u>	PROJECT NO. <u>10742.01</u>
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SAMPLE NO.: NGI MW-10 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

<b>PURGING</b>	TIME: <u>1040</u>	DEPTH TO WATER: <u>17.36 ± 0.00</u> TI <u>PVC</u>
WELL VOLUME: <u>1.3</u> gallons	DEPTH TO BOTTOM: <u>24.85 ± 0.27</u> TI <u>PVC</u>	METHOD: <input type="checkbox"/> Bailer, _____ <input checked="" type="checkbox"/> Pump, <u>Peristaltic</u>
TOTAL VOLUME REMOVED: <u>4</u> <sup>Liters</sup> gallons	ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <u>Gasoline</u>	COLOR: <u>Clear</u>
DISPOSAL METHOD: <input checked="" type="checkbox"/> Ground <input type="checkbox"/> POTW <input type="checkbox"/> Drum <input type="checkbox"/> Other _____	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very	

<b>SAMPLE</b>	TIME: <u>1100</u>	DATE: <u>11/6/01</u>
ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <u>Gas</u>	COLOR: <u>Clear</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very
pH: <u>5.73</u>	CONDUCTIVITY: <u>1422</u> <u>ATC</u> $\mu\text{mhos/cm}$	TEMPERATURE: <u>13.1</u> °C
COMMENTS: <u>ORP = 217mV - O<sub>2</sub> = 0.11 mg/L</u>	CORRECTED CONDUCTIVITY: <u>30</u> $(1 + [0.0191 \times (T - 25)])$ ; <u>ATC</u>	

<b>FILTRATE (0.45 <math>\mu\text{m}</math>)</b>	<input checked="" type="checkbox"/> NOT APPLICABLE
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: _____ COMMENTS: _____

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO <sub>3</sub> C - H <sub>2</sub> SO <sub>4</sub> D - NaOH E - HCL F - _____						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>3</u>	<u>40ml</u>	<u>glass</u>	<u>B</u>	<u>Y</u> <u>(N)</u>					<u>Y</u> <u>N</u>
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>
				<u>Y</u> <u>N</u>					<u>Y</u> <u>N</u>

CHAIN-OF-CUSTODY NUMBER: Enchem 74308 DATE SHIPPED: 11/27/01 METHOD: Courier via P/V

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/6

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# WATER SAMPLE LOG

Sheet 45 of 53

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444

FAX: (608) 831-3334

PROJECT NAME <u>WisDOT Northland Laundry</u>	PREPARED		CHECKED		PROJECT NO. <u>10742-01</u>
	By: <u>PJT</u>	Date: <u>11/6/01</u>	By: <u>LSB</u>	Date: <u>11/27/01</u>	

SAMPLE NO.: NCE MW-11 WELL DIAMETER:  2"  4"  Other \_\_\_\_\_

WELL MATERIAL:  PVC  SS  Iron  Other \_\_\_\_\_

SAMPLE TYPE:  GW  WW  SW  DW  Leachate  Other \_\_\_\_\_

**PURGING** TIME: ~~11:25~~ 11:25 DEPTH TO WATER: 17.69 + 0.00 TI PVC

WELL VOLUME: 1.0 gallons DEPTH TO BOTTOM: 23.6 + 0.27 TI PVC

TOTAL VOLUME REMOVED: 5 <sup>liters</sup> gallons METHOD:  Bailor,  Pump Peristaltic

ODOR:  None  Other Gasoline COLOR: None TURBIDITY:  None  Slight  Moderate  Very

DISPOSAL METHOD:  Ground  POTW  Drum  Other \_\_\_\_\_

**SAMPLE** TIME: 11:25 DATE: 11/6/01

ODOR:  None  Other Gasoline COLOR: Clear TURBIDITY:  None  Slight  Moderate  Very

pH: 6.25 CONDUCTIVITY: 2.99  $\mu\text{mhos/cm}$  TEMPERATURE: 13.6 °C

COMMENTS: ORP = 122mV O<sub>2</sub> = 0.46 mg/L CORRECTED CONDUCTIVITY:  $SC + \{1 + [0.0191 \times (T - 25)]\}$ : ATC

**FILTRATE (0.45  $\mu\text{m}$ )**  NOT APPLICABLE

ODOR:  None  Other \_\_\_\_\_ COLOR: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
<u>3</u>	<u>1/2 Gall</u>	<u>Glass</u>	<u>E</u>	<u>Y (N)</u>					<u>Y N</u>	
				<u>Y N</u>					<u>Y N</u>	
				<u>Y N</u>					<u>Y N</u>	
				<u>Y N</u>					<u>Y N</u>	

CHAIN-OF-CUSTODY NUMBER: 74308 DATE SHIPPED: 11/8/01 METHOD: Courier via P/C

AIRBILL NUMBER: N/A SIGNED: [Signature] DATE: 11/6/01

# Appendix D

## Laboratory Analytical Data Sheets and Chain-of-Custody Records

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : Z-BEST MW-2

Collection Date : 11/6/01

Lab Sample Number : 913952-007

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 2.4	2.4	7.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 2.6	2.6	8.3		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 3.4	3.4	11		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 2.3	2.3	7.3		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 3.0	3.0	9.6		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 2.3	2.3	7.3		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 2.9	2.9	9.2		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 2.6	2.6	8.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 3.5	3.5	11		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 1.8	1.8	5.7		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	740	2.3	7.3		ug/L		11/15/01	SW846 8260B
2-Dibromo-3-chloropropane	< 6.2	6.2	20		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 2.4	2.4	7.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 1.8	1.8	5.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 2.7	2.7	8.6		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 1.7	1.7	5.4		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	270	2.2	7.0		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 3.2	3.2	10		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 2.1	2.1	6.7		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 2.1	2.1	6.7		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 2.0	2.0	6.4		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 3.2	3.2	10		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 2.8	2.8	8.9		ug/L		11/15/01	SW846 8260B
Benzene	4.0	2.2	7.0		ug/L	Q	11/15/01	SW846 8260B
Bromobenzene	< 2.3	2.3	7.3		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 1.1	1.1	3.5		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 2.0	2.0	6.4		ug/L		11/15/01	SW846 8260B
Bromoform	< 2.9	2.9	9.2		ug/L		11/15/01	SW846 8260B
Bromomethane	< 4.7	4.7	15		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 4.5	4.5	14		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 2.1	2.1	6.7		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 2.1	2.1	6.7		ug/L		11/15/01	SW846 8260B
Chloroethane	< 3.1	3.1	9.9		ug/L		11/15/01	SW846 8260B
Chloroform	< 2.0	2.0	6.4		ug/L		11/15/01	SW846 8260B

**Corporate Office & Laboratory**  
 1241 Bellevue Street  
 Green Bay, WI 54302  
 920-469-2436 • FAX: 920-469-8827  
 800-7-ENCHEM



**Madison Office & Laboratory**  
 525 Science Drive  
 Madison, WI 53711  
 608-232-3300 • FAX: 608-233-0502  
 888-5-ENCHEM

**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : Z-BEST MW-2**

**Collection Date : 11/6/01**

**Lab Sample Number : 913952-007**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 2.2	2.2	7.0	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	12	2.3	7.3	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 2.7	2.7	8.6	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 3.0	3.0	9.6	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 3.0	3.0	9.6	ug/L		11/15/01	SW846 8260B
Ethylbenzene	580	2.5	8.0	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 2.3	2.3	7.3	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 2.4	2.4	7.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	47	1.9	6.1	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 1.9	1.9	6.1	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	26	1.9	6.1	ug/L		11/15/01	SW846 8260B
n-Propylbenzene	69	2.7	8.6	ug/L		11/15/01	SW846 8260B
Naphthalene	190	2.9	9.2	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	35	2.5	8.0	ug/L		11/15/01	SW846 8260B
s-Butylbenzene	6.3	2.9	9.2	ug/L	Q	11/15/01	SW846 8260B
Styrene	< 1.8	1.8	5.7	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 2.5	2.5	8.0	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	120	2.0	6.4	ug/L		11/15/01	SW846 8260B
Toluene	460	2.0	6.4	ug/L		11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 3.2	3.2	10	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 1.3	1.3	4.1	ug/L		11/15/01	SW846 8260B
Trichloroethene	40	2.4	7.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.85	0.85	2.7	ug/L		11/15/01	SW846 8260B
Xylene, o-	350	2.7	8.6	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	1700	3.9	12	ug/L		11/15/01	SW846 8260B



**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : Z-BEST MW-3**

**Collection Date : 11/5/01**

**Lab Sample Number : 913952-001**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

**Volatile Organic Results**

**EPA 8260 VOLATILE LIST**

**Prep Method: SW846 5030B**

**Prep Date: 11/16/01**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMI - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : Z-BEST MW-3

Collection Date : 11/5/01

Lab Sample Number : 913952-001

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	2.5	0.46	1.5	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Tetrachloroethene	57	0.41	1.3	ug/L		11/16/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	1.6	0.49	1.6	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 8260B

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : Z-BEST MW-4

Collection Date : 11/5/01

Lab Sample Number : 913952-002

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/16/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : Z-BEST MW-4

Collection Date : 11/5/01

Lab Sample Number : 913952-002

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 B260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 B260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 B260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 B260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 B260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 B260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 B260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 B260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 B260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 B260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 B260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 B260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 B260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 B260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 B260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 B260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 B260B
Tetrachloroethene	54	0.41	1.3	ug/L		11/16/01	SW846 B260B
Toluene	< 0.40	0.40	1.3	ug/L		11/16/01	SW846 B260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 B260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 B260B
Trichloroethene	47	0.49	1.6	ug/L		11/16/01	SW846 B260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 B260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 B260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 B260B

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : Z-BEST MW-5

Collection Date : 11/6/01

Lab Sample Number : 913952-006

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/16/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropane	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	150	0.47	1.5		ug/L		11/16/01	SW846 8260B
2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	52	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	2.4	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : Z-BEST MW-5**

**Collection Date : 11/6/01**

**Lab Sample Number : 913952-006**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	10.0	0.46	1.5	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
Ethylbenzene	150	0.50	1.6	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	18	0.39	1.2	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	5.0	0.39	1.2	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	19	0.54	1.7	ug/L		11/16/01	SW846 8260B
Naphthalene	81	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	7.0	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 8260B
Styrene	13	0.37	1.2	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	0.85	0.50	1.6	ug/L	Q	11/16/01	SW846 8260B
Tetrachloroethene	42	0.41	1.3	ug/L		11/16/01	SW846 8260B
Toluene	170	0.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	0.79	0.64	2.0	ug/L	Q	11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	14	0.40	1.6	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 8260B
Xylene, o-	160	0.54	1.7	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	450	1.5	4.8	ug/L	D	11/16/01	SW846 8260B



Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : Z BEST PZ-1

Collection Date : 11/8/01

Lab Sample Number : 913952-015

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/12/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.98	0.98	3.1		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.4	1.4	4.5		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 1.4	1.4	4.5		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.72	0.72	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 2.5	2.5	8.0		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.98	0.98	3.1		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.72	0.72	2.3		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.84	0.84	2.7		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
Benzene	< 0.88	0.88	2.8		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.92	0.92	2.9		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B
Bromoform	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 1.9	1.9	6.1		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 1.8	1.8	5.7		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 8260B
Chloroethane	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B

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**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : Z-BEST PZ-1**

**Collection Date : 11/8/01**

**Lab Sample Number : 913952-015**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 0.88	0.88	2.8	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	10	0.92	2.9	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 1.1	1.1	3.5	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
Ethylbenzene	< 1.0	1.0	3.2	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.94	0.94	3.0	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.98	0.98	3.1	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	< 0.70	0.70	2.5	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.76	0.76	2.4	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.78	0.78	2.5	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	< 1.1	1.1	3.5	ug/L		11/16/01	SW846 8260B
Naphthalene	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	3.2	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
Styrene	< 0.74	0.74	2.4	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 1.0	1.0	3.2	ug/L		11/16/01	SW846 8260B
Tetrachloroethene	180	0.82	2.6	ug/L		11/16/01	SW846 8260B
Toluene	< 0.80	0.80	2.5	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.3	1.3	4.1	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.52	0.52	1.7	ug/L		11/16/01	SW846 8260B
Trichloroethene	7.0	0.98	3.1	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.34	0.34	1.1	ug/L		11/16/01	SW846 8260B
Xylene, o-	< 1.1	1.1	3.5	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	< 1.5	1.5	4.8	ug/L		11/16/01	SW846 8260B

**- Analytical Report -**

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : NCI MW-4

Collection Date : 11/6/01

Lab Sample Number : 913952-016

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/12/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	140	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	37	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : NCI MW-4**

**Collection Date : 11/6/01**

**Lab Sample Number : 913952-016**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
Ethylbenzene	66	0.50	1.6	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	5.7	0.39	1.2	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	13	0.54	1.7	ug/L		11/16/01	SW846 8260B
Naphthalene	27	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Tetrachloroethene	0.49	0.41	1.3	ug/L	Q	11/16/01	SW846 8260B
Toluene	11	0.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 8260B
Xylene, o-	60	0.54	1.7	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	84	0.77	2.5	ug/L		11/16/01	SW846 8260B

**- Analytical Report -**

Project Name : WDOT NORTHWOODS LAUNDRY  
 Project Number : 10742.01  
 Field ID : NCI MW-5  
 Lab Sample Number : 913952-008  
 Lab Project Number : 913952

Submitter : RMT - MADISON  
 Report Date : 11/28/01  
 Collection Date : 11/6/01  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	27	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	7.2	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : NCI MW-5**

**Collection Date : 11/6/01**

**Lab Sample Number : 913952-008**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	2.7	0.50	1.6	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	1.7	0.39	1.2	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
n-Propylbenzene	3.4	0.54	1.7	ug/L		11/15/01	SW846 8260B
Naphthalene	4.0	0.59	1.9	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	0.83	0.51	1.6	ug/L	Q	11/15/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/15/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		11/15/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 8260B
Xylene, o-	2.0	0.54	1.7	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	8.4	0.77	2.5	ug/L		11/15/01	SW846 8260B

**- Analytical Report -**

**Project Name :** WDOT NORTHWOODS LAUNDRY  
**Project Number :** 10742.01  
**Field ID :** NCI MW-9  
**Lab Sample Number :** 913952-003  
**Lab Project Number :** 913952

**Submitter :** RMT - MADISON  
**Report Date :** 11/28/01  
**Collection Date :** 11/6/01  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Volatile Organic Results**

**EPA 8260 VOLATILE LIST**

**Prep Method:** SW846 5030B

**Prep Date:** 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : NCI MW-9

Collection Date : 11/6/01

Lab Sample Number : 913952-003

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/15/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/15/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		11/15/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/15/01	SW846 8260B



**- Analytical Report -**

**Project Name :** WDOT NORTHWOODS LAUNDRY  
**Project Number :** 10742.01  
**Field ID :** NCI MW-10  
**Lab Sample Number :** 913952-004  
**Lab Project Number :** 913952

**Submitter :** RMT - MADISON  
**Report Date :** 11/28/01  
**Collection Date :** 11/6/01  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	5.3	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	0.99	0.45	1.4		ug/L	Q	11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	95	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : NCI MW-10

Collection Date : 11/6/01

Lab Sample Number : 913952-004

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	5.0	0.50	1.6	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	3.4	0.39	1.2	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	2.5	0.39	1.2	ug/L		11/15/01	SW846 8260B
n-Propylbenzene	4.2	0.54	1.7	ug/L		11/15/01	SW846 8260B
Naphthalene	9.9	0.59	1.9	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	0.99	0.51	1.6	ug/L	Q	11/15/01	SW846 8260B
s-Butylbenzene	1.4	0.58	1.8	ug/L	Q	11/15/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		11/15/01	SW846 8260B
Toluene	0.93	0.40	1.3	ug/L	Q	11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 8260B
Xylene, o-	2.3	0.54	1.7	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	9.0	0.77	2.5	ug/L		11/15/01	SW846 8260B

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : NCI MW-11

Collection Date : 11/6/01

Lab Sample Number : 913952-005

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORIWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : NCI MW-11

Collection Date : 11/6/01

Lab Sample Number : 913952-005

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	6.6	0.46	1.5	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	2.9	0.50	1.6	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	1.8	0.39	1.2	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	0.60	0.39	1.2	ug/L	Q	11/15/01	SW846 8260B
n-Propylbenzene	2.5	0.54	1.7	ug/L		11/15/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/15/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/15/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	0.84	0.41	1.3	ug/L	Q	11/15/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.04	0.04	2.0	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	9.4	0.77	2.5	ug/L		11/15/01	SW846 8260B



- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TW-1

Collection Date : 11/7/01

Lab Sample Number : 913952-009

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Volatile Organic Results

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TW-1

Collection Date : 11/7/01

Lab Sample Number : 913952 009

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 B260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 B260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 B260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 B260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 B260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 B260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 B260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 B260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 B260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 B260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 B260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 B260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/15/01	SW846 B260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/15/01	SW846 B260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/15/01	SW846 B260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 B260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 B260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		11/15/01	SW846 B260B
Toluene	< 0.40	0.40	1.3	ug/L		11/15/01	SW846 B260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW846 B260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 B260B
Trichloroethene	< 0.40	0.40	1.6	ug/L		11/15/01	SW846 B260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 B260B
Xylene, n-	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 B260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/15/01	SW846 B260B

**- Analytical Report -**

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TW-2

Collection Date : 11/7/01

Lab Sample Number : 913952-010

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TW-2

Collection Date : 11/7/01

Lab Sample Number : 913952-010

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/15/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/15/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	6.5	0.41	1.3	ug/L		11/15/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/15/01	SW846 8260B



- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY  
 Project Number : 10742.01  
 Field ID : TW-3  
 Lab Sample Number : 913952-011  
 Lab Project Number : 913952

Submitter : RMT - MADISON  
 Report Date : 11/28/01  
 Collection Date : 11/7/01  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/15/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/15/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/15/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/15/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/15/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/15/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/15/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/15/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/15/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/15/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/15/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/15/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/15/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/15/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/15/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/15/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/15/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/15/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/15/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260B

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**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : TW-3**

**Collection Date : 11/7/01**

**Lab Sample Number : 913952-011**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.01	0.01	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/15/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/15/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/15/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/15/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/15/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/15/01	SW846 8260B
Tetrachloroethene	2.9	0.41	1.3	ug/L		11/15/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/15/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/15/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/15/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/15/01	SW846 8260B

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY  
 Project Number : 10742.01  
 Field ID : TW-4  
 Lab Sample Number : 913952-012  
 Lab Project Number : 913952

Submitter : RMT - MADISON  
 Report Date : 11/28/01  
 Collection Date : 11/7/01  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/16/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TW-4

Collection Date : 11/17/01

Lab Sample Number : 913952-012

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Tetrachloromethane	1.5	0.41	1.3	ug/L		11/16/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 8260B

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY  
 Project Number : 10742.01  
 Field ID : TW-5  
 Lab Sample Number : 913952-014  
 Lab Project Number : 913952

Submitter : RMT - MADISON  
 Report Date : 11/28/01  
 Collection Date : 11/8/01  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/12/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TW-5

Collection Date : 11/8/01

Lab Sample Number : 913952-014

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Tetrachloroethene	1.6	0.41	1.3	ug/L		11/16/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 8260B

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY  
 Project Number : 10742.01  
 Field ID : TW-6  
 Lab Sample Number : 913952-013  
 Lab Project Number : 913952

Submitter : RMT - MADISON  
 Report Date : 11/28/01  
 Collection Date : 11/8/01  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/12/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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**- Analytical Report -**

**Project Name : WDOT NORTHWOODS LAUNDRY**

**Submitter : RMT - MADISON**

**Project Number : 10742.01**

**Report Date : 11/28/01**

**Field ID : TW-6**

**Collection Date : 11/8/01**

**Lab Sample Number : 913952-013**

**Matrix Type : WATER**

**Lab Project Number : 913952**

**WI DNR LAB ID : 113172950**

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 B260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 B260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 B260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 B260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 B260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 B260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 B260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 B260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 B260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 B260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 B260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 B260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 B260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 B260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 B260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 B260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 B260B
Tetrachloroethene	8.7	0.41	1.3	ug/L		11/16/01	SW846 B260B
Toluene	< 0.40	0.40	1.3	ug/L		11/16/01	SW846 B260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 B260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 B260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 B260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 B260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 B260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 B260B



- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY  
 Project Number : 10742.01  
 Field ID : DUPLICATE  
 Lab Sample Number : 913952-017  
 Lab Project Number : 913952

Submitter : RMT - MADISON  
 Report Date : 11/28/01  
 Collection Date : 11/6/01  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/12/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.98	0.98	3.1		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.4	1.4	4.5		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 1.4	1.4	4.5		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.72	0.72	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	150	0.94	3.0		ug/L		11/16/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 2.5	2.5	8.0		ug/L		11/16/01	SW846 8260B
1,2-Dibromoethane	< 0.98	0.98	3.1		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.72	0.72	2.3		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	47	0.90	2.9		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.84	0.84	2.7		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 1.1	1.1	3.5		ug/L		11/16/01	SW846 8260B
Benzene	2.4	0.88	2.8		ug/L	Q	11/16/01	SW846 8260B
Bromobenzene	< 0.92	0.92	2.9		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B
Bromoform	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 1.9	1.9	6.1		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 1.8	1.8	5.7		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 8260B
Chloroethane	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B

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 800-7-ENCHEM



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 Madison, WI 53711  
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 888-5-ENCHEM

- Analytical Report -

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : DUPLICATE

Collection Date : 11/6/01

Lab Sample Number : 913952-017

Matrix Type : WATER

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.88	0.88	2.8	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	8.3	0.92	2.9	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 1.1	1.1	3.5	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
Ethylbenzene	150	1.0	3.2	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.94	0.94	3.0	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.98	0.98	3.1	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	16	0.78	2.5	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.76	0.76	2.4	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.78	0.78	2.5	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	18	1.1	3.5	ug/L		11/16/01	SW846 8260B
Naphthalene	78	1.2	3.8	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 1.0	1.0	3.2	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 1.2	1.2	3.8	ug/L		11/16/01	SW846 8260B
Styrene	15	0.74	2.4	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 1.0	1.0	3.2	ug/L		11/16/01	SW846 8260B
Tetrachloroethene	47	0.82	2.6	ug/L		11/16/01	SW846 8260B
Toluene	170	0.80	2.5	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 1.3	1.3	4.1	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.52	0.52	1.7	ug/L		11/16/01	SW846 8260B
Trichloroethene	12	0.98	3.1	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.34	0.34	1.1	ug/L		11/16/01	SW846 8260B
Xylene, o-	150	1.1	3.5	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	420	1.5	4.8	ug/L		11/16/01	SW846 8260B

**- Analytical Report -**

Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TRIP BLANK

Collection Date : 11/5/01

Lab Sample Number : 913952-018

Matrix Type : BLANK

Lab Project Number : 913952

WI DNR LAB ID : 113172950

**Volatile Organic Results**

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Prep Date: 11/12/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		11/16/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		11/16/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		11/16/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		11/16/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		11/16/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		11/16/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		11/16/01	SW846 8260B
2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/16/01	SW846 8260B
2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/16/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/16/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		11/16/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/16/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		11/16/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/16/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		11/16/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		11/16/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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Project Name : WDOT NORTHWOODS LAUNDRY

Submitter : RMT - MADISON

Project Number : 10742.01

Report Date : 11/28/01

Field ID : TRIP BLANK

Collection Date : 11/5/01

Lab Sample Number : 913952-018

Matrix Type : BLANK

Lab Project Number : 913952

WI DNR LAB ID : 113172950

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		11/16/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		11/16/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		11/16/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/16/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 8260B

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank
- M Methanol leakage.
- N Spiked sample recovery not within control limits.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two columns was greater than 40%.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #: 405132750.
- & Laboratory Control Spike recovery not within control limits. (See Sample Narrative)
- Duplicate analyses not within control limits. (See Sample Narrative)

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## **SAMPLE NARRATIVE**

**PROJECT NAME** : WDOT NORTHWOODS LAUNDRY  
**WORKORDER NUMBER** : 913952  
**DATE** : 11/19/01

**VOLATILE ORGANICS:** One or more samples in this package have analytes qualified with an "&" qualifier because they are associated to a Laboratory Control Sample (LCS) that had recoveries outside of the laboratory control limits. Data for these analytes is qualified, without further corrective action, because the laboratory SOP allows a limited number of analytes to be outside of the control limits based on the number of analytes spiked.

Company Name: NW  
 Branch or Loca: Madison  
 Project Contact: Peter Taglia  
 Telephone: 608 831-4244  
 Project Number: 10742.01  
 Project Name: WisDOT Northwoods Laundry  
 Project State: WI  
 Sampled By (Print): Peter Taglia



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### CHAIN OF CUSTODY

74308

Page 1 of 2

A=None B=NDL C=H2SO4 \*Transmission Codes  
 H = Sodium Hydroxide Solution D=HNO3 E=EtCare F=Methanol G=NaOH  
 L=Other  
 FILTERED? (YES/NO) NO  
 PRESERVATION (CODE): B

ANALYSES REQUESTED  
 VOLS via EPA 8260 B

TOTAL # OF BOTTLES SENT

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Peter Taglia

Company: RMT  
 Address: SAME AS

Invoice To: Accounts Payable  
 Company: RMT - Madison

Address: \_\_\_\_\_

Mail Invoice To: Peter Taglia

**Data Package Options**  
 (Please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program: NET  
 RCRA  
 SDWA  
 NPDES  
 CERCLA

Matrix Codes:  
 W-Water  
 S-Soil  
 A-Air  
 C-Charcoal  
 B-Bio  
 S-Sludge

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	CLIENT COMMENTS																	
		DATE	TIME																			
913452-001	Z-Best MW-3	11/5	1630	W	3																	
002	Z-Best MW-4	11/5	1237	W	3																	
003	NCI MW-9	11/6	0900	W	3																	
004	NCI MW-10	11/6	1100	W	3																	
005	NCI MW-11	11/6	1155	W	3																	
006	Z-BEST-MW-5	11/6	1548	W	3																	
007	Z-BEST-MW-2	11/6	1640	W	3																	
008	NCI MW-5	11/6	1725	W	3																	
009	TW-1	11/7	1530	W	3																	
010	TW-2	11/7	1605	W	3																	
011	TW-3	11/7	1650	W	3																	
012	TW-4	11/7	1740	W	3																	

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

Relinquished By: [Signature] Date/Time: 10/18/01 810  
 Relinquished By: [Signature] Date/Time: 11/9/01 0901  
 Relinquished By: [Signature] Date/Time: 11/9/01 0930  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: RMT Cooper Date/Time: 11/8/01 1570  
 Received By: [Signature] Date/Time: 11/9/01 0900  
 Received By: Ryan Chouen Date/Time: 11/9/01 0930  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\_\_\_\_\_ Date/Time: \_\_\_\_\_  
 \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 \_\_\_\_\_ Date/Time: \_\_\_\_\_

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

Company Name: KIVI, Inc.  
 Branch or location: Madison  
 Project Contact: Peter Taglia  
 Telephone: 608 831 4444  
 Project Number: 10742.01  
 Project Name: WisDOT Northwood Laundry  
 Project State: WI  
 Sampled By (Print): Peter Taglia



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### CHAIN OF CUSTODY 74309

Page 2 of 2

A=Hex B=HCL C=2204  
 H = Sodium Bisulfate Solution  
 Presentation Codes  
 D=HMS L=Other  
 E=EnCore F=Methanol G=NaOH  
 FILTERED? (YES/NO) NO  
 PRESERVATION (CODE)\* B

Mail Report To: Peter Taglia  
 Company: RMT  
 Address: Madison

Data Package Options  
 (Please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

Regulatory Program:  
 UST  
 RCRA  
 SDWA  
 NPDES  
 CERCLA

Matrix Codes:  
 W-Water  
 S-Gull  
 A-Air  
 C-Carousel  
 B-Bottle  
 S-Slug

ANALYSES REQUESTED  
VOCs via EPA 8160

TOTAL # OF BOTTLES SENT

Invoice To: Accounts Payable  
 Company: RMT  
 Address: Madison  
 Mail Invoice To: Peter Taglia

LABORATORY (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	CLIENT COMMENTS								LABORATORY (Lab Use Only)	
		DATE	TIME											
413951-015	TW-6	11/8	0945	W	3									
016	TW-5	11/8	1020	W	3									
015	Z-Best PZ-1	11/8	<del>1020</del>	W	3									
016		11/6	1317											
017		11/6												
018														

*Dates from vials 11/4/01*

*NCI-MW-4 Duplicate trip blanks*

*3 added to COL 5 in Lab*

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

Relinquished By: <u>[Signature]</u>	Date/Time: <u>11/9/01 0910</u>	Received By: <u>RMT Cooper</u>	Date/Time: <u>11/9/01 1310</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>11/9/01 0930</u>	Received By: <u>Judy Volkmann</u>	Date/Time: <u>11/9/01 0930</u>
Relinquished By: <u>Judy Volkmann</u>	Date/Time: <u>11/9/01 0930</u>	Received By: <u>Ryan Chronen</u>	Date/Time: <u>11/9/01 0930</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Lab Use Only

413951

312

NA

Version 1.0 9/01