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Phase 3 Investigation Former Northwoods Laundry Minocqua, Wisconsin

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

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Prepared For Wisconsin Department of Transportation

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Executive Summary

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 2½ 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 μ g/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 μ g/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 reme former Northwoods Laundry site	diation of the groundwater impacts in the vicinity of the

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Section 1 Introduction

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 μ g/kg to 3,100 μ g/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 μ g/L to 160 μ g/L and 30 μ g/L to 160 μ g/L, respectively. PCE and TCE were detected in one well (New Concord Inn MW-6) at the New Concord Inn site at 470 μ g/L and 160 μ g/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:

Peter Taglia, Staff Hydrogeologist 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

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.

3.1 Site Geology

The geology in the Minocqua area is dominated by glaciofluvial deposits from the Wisconsian 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 $2,990~\mu mhos/cm$), 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 μ g/L) at TW-2 (6.5 μ g/L) and TW-6 (8.7 μ 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 μ g/L) and TW-5 (1.6 μ 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 μ g/L to 180 μ g/L. TCE was detected in all five wells at concentrations ranging from 1.6 μ g/L to 40 μ g/L. At three of the five wells,

TCE concentrations exceeded the NR 140 Enforcement Standard of 5 μ g/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 μ g/L to 12 μ g/L. Two of the wells at the Z-Best site also contained BTEX and other petroleum-related compounds at concentrations of 3,094 μ g/L (MW-2) and 932 μ g/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 $\mu g/L$ to 0.84 $\mu g/L$, respectively). Cis-1,2-DCE was also detected in MW-11 at 6.6 $\mu g/L$. BTEX was detected in four of the five New Concord Inn wells at concentrations ranging from 12.3 $\mu g/L$ to 221 $\mu g/L$ 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 $\mu g/L$, 410 $\mu g/L$, and 470 $\mu g/L$, respectively) were significantly higher than those measured at TW-2 (6.5 $\mu g/L$) and TW-6 (8.7 $\mu g/L$) 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

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 ⁽¹⁾	1604.32	23.50	19.00	1585.32
TW-2 ⁽¹⁾	1604.50	23.21	19.29	1585.21
TW-3 ⁽¹⁾	1606.23	23.41	21.06	1585.17
TW-4 ⁽¹⁾	1605.09	23.35	19.84	1585.25
TW-5 ⁽¹⁾	1604.64	23.78	19.45	1585.19
TW-6 ⁽¹⁾	1605.28	23.37	20.05	1585.23

Notes:

ft, bgs = feet below ground surface.

ft, M.S.L. = feet above mean sea level.

(1) 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.

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Checked by: LJB 12/20/01

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						
Groundwater Standard ⁽¹⁾	5	5	70	100	NA						
Z-Best Auto Detailing Site	Monitoria	ng Wells									
Z-Best MW-2	120	40	12	ND	3,094 (2)						
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 (2)						
Z-Best PZ-1	180	7	10	ND	ND						
New Concord Inn East/Site	New Concord Inn East/Site 2 Monitoring Wells										
New Concord Inn MW-4	0.49	ND	ND	ND	221 (2)						
New Concord Inn MW-5	ND	ND	ND	ND	13.1 (2)						
New Concord Inn MW-9	ND	ND	ND	ND	ND						
New Concord Inn MW-10	ND	ND	ND	ND	112.2 (2)						
New Concord Inn MW-11	0.84	ND	6.6	ND	12.3 (2)						
Temporary Wells											
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:

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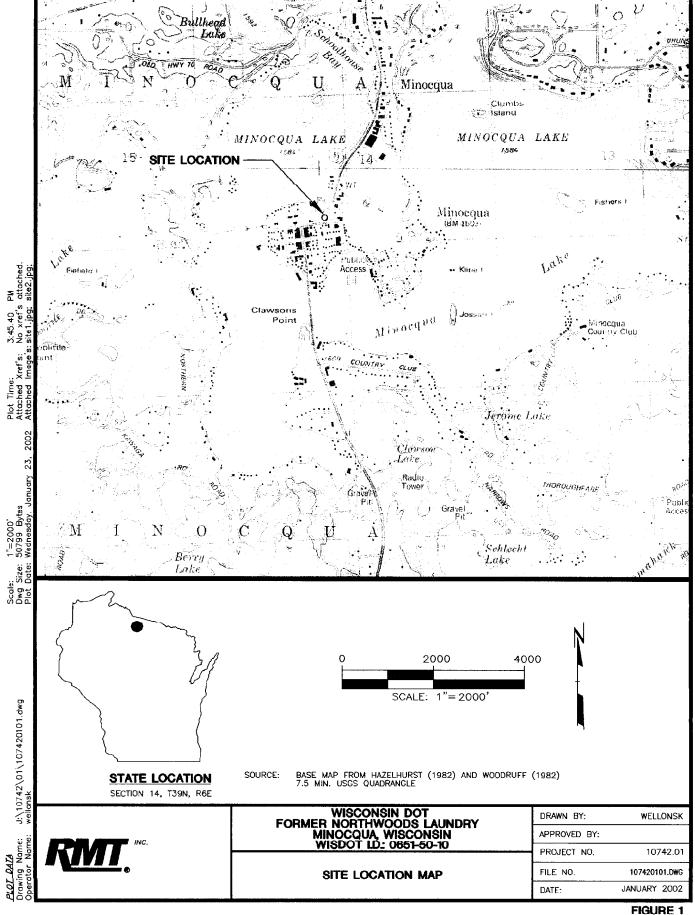
Detection limits were below the Enforcement Standard for all compounds shown.

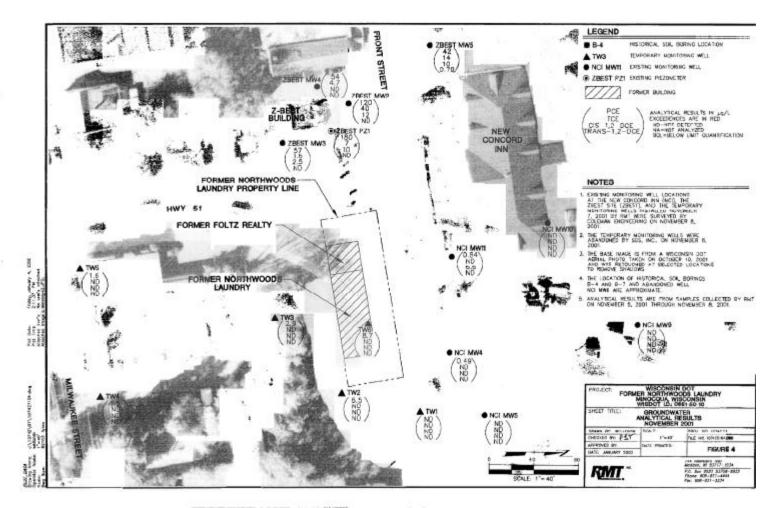
ND = not detected above the limit of detection.

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

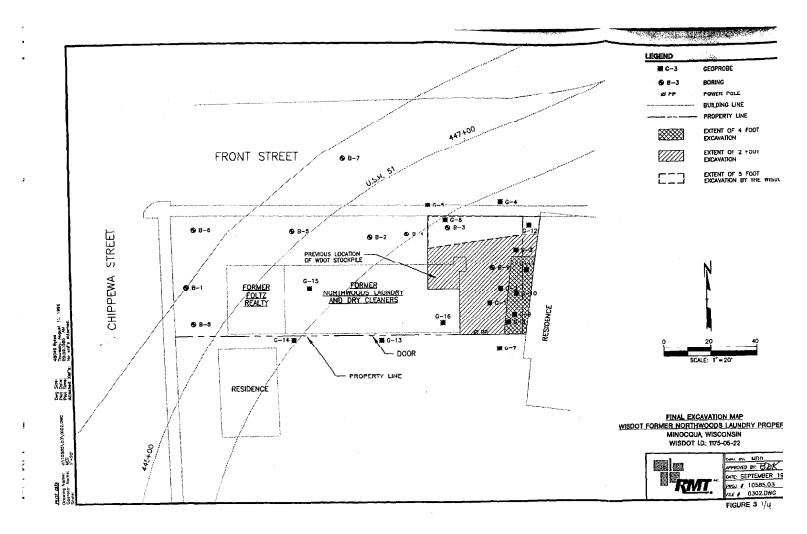
Shading = exceedence of groundwater Enforcement Standards.

- (1) Wisconsin NR 140 groundwater quality Enforcement Standards.
- (2) Additional volatile organic compounds, interpreted to be associated with petroleum impacts, were detected at these wells. See Appendix D for the complete list.





Appendix A Historical Soil and Groundwater Results



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.

arameters	Sample Depth (feet)	1,2-Dichloroethane (total)		Tetrachloroethene	Vinyl Chlorid
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
135	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:

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.

学生企业	Sample Depth	1,2-Dichloroethane	The Surface back	THE THE PARTY OF THE PARTY.	
arameters	(feet)	(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
25 57	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)	PARTY CONTRACTOR OF THE PARTY O	trations /L) rings (2)	Administrative Code Enforcement Standards (ES)	Wisconsin Administrative Code Preventive Action Limit (PAL)
	4	7		Action Digit (FAL)
cis-1,2-Dichlorethylene	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)

Appendix B Soil Boring Logs

RMT	Proje	ect !	No:				Pag	.46	of	53
	t Name		Nor-	Hww oods Laundry Start Pate (End	Date / 1 /	01	В	oning N		r
-	Drilled	ву		Drilling Method	++			-/1.VV		
	35	100	٠	Geo probe						
Drill R	lig Ne 25	m.		TI.1-1 10/ has	ce Elev	vation	В	orehole Z	1	nches
	Locati		Ea		Grid I			pplicat	le)	
State	1/4	of	1/4	4 of Section T N,R		t		F		JE Jw
Count	new	6		State DNR County Code Civil Town/City/ or						
Number	Length (In) Recovered	Blaw 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	Hett Biagram	ROD∕ Comments
			à=	Sandy soil with 2000 gravel. Said ig fine to mediu	mi	_2" _Maa	roc	ore		
1	3/6"		4	Dry 104R 5/6 5P, Poorly oraded fretomed. Sound, few gravel, Munse 104R 570, 1005e, dry.	U	111	0			
2	3'		8 =	Some as abover but becoming trace gravel and a couple zones with trace suft		<u> </u>				
				- To be stored to the state of	1					
3	3'		12=		1	-h	0			
					-	E				
4	4'		16 =	some small laminations visible, possibly cross bedding, conscale	-	E,	0			
				- MOIST				19	13	
5	4'		30=		-	*	0			
				solviated some an almone						
6	4'		24		-	= 11	0	24		
				E.D.B @ 24' bys	-				10	Y
Logge	Pot	<u></u>	tag	Checked By:						
F - 204	A (R 1		/							

RMT	Proje			16742.01						<u> </u>	Pa		of J	17
Projec	t Name DOT	_ 4	Novy	aundury			Start Date	101	End Date	101	I	Boring N	lumbe	r
Boring	Drilled	Ву		Jeff & Rh	0		Drilling M	ethod	· · · / · · /					
<u>SG</u>				· · · · · · · · · · · · · · · · · · ·		· <u>· · · · · · · · · · · · · · · · · · </u>		probe	T					
Drill R	ig	257	20		Common Well	Name	Initial Wa	ter Level ~ 18 65	Surface Ele	vation		Borehole Z		nches_
Boring State	Locati	ол		sting	Nor	thing			Local Grid	Locatio	-	applica	-	□ E
	1/4	of	1/4	of Section		,R		Civil Town)Ci		et 🗆		I	eet	<u>j̃ w</u>
Count	"Ung	udu			State	DIAR CO	unty Code	CIWI TOWN CI	MIND	t Q	N	<u> </u>		
Number	Length (In) Recovered	Blow Counts	Depth In Feet	Size Densit	Name. Per s, Plasticity y/Consister	Color.	Odor, M litional (Ioisture, Comments.		Sample Type	PIO/FID	Standard Peretration	Well Diagram	Rad/ Comments
ž	7 %	ω.	Ŏ.		ologic Origi	ın (Sıra	ugrapnic	: Onu)		Ø F	g.	N. G.	77	<u>Σ</u> Ω
				Soud+ Graves concrete at		5 has	i			E			$ \langle $	
	3'	,	니를						•	Edr			1	
)		-	SP. clean fine	I'med L.	م، اس	U.A =-1			-	roc	wre.	+H	
			_=	SP, clear fine	r, 100se	•	1K 5/(g Yellowig	in brn	<u>E</u> _	<u> </u>			ļ
2	3'		8							=(,	0			
				-						E				
				6.000						= -	 -		╁╁╂	-
3	3'		13 =	Soul as als	00 E					E	C	 	111	
			=							E				
4	4'		14=		1					Eu	0			
	+		- VV			<i>(</i> ,				E	1	-	H	-
	-	-			DN 18	bgs				E_	ļ	_	111	<u> </u>
5	14'		20=					· •		声	0			
				most/san	-					E			\prod	
	4'		24=	5 and	no apone	ւ					+-	-	++)	+
<u>(</u>	-	<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	E.O.B.@	24 has					<u> </u>	 -		111	
				1	.7.	. —								
Loga	ed By:			<u> </u>			Checked:	Rv·		<u> </u>	1_			_L
Po88.		ton		aglia			700	کے نہے	2					
F - 204	4A (R			J			-							
														2

RMT	Proje	ct N	lo:								Pag	e 48	of \	<u> </u>
Project	Name	N		bods Laune	dong		Start Date	101	End Date	01	B	Foring N	nurpei	3
Boring	Drilled			Teff+ Rho			Drilling Meth							
	55 ₁				Common Well	Name		prob	Surface Ele	vation		orehole	Diam	atar
Drill R	ae 2	500	ω/	GH-40	TW-	I anne	initial Water	845×				7	I	nches
Boring State	Locati	on		sting	Non	thing			Local Grid	Locatio	•	applicab	٠ ـ	J E
Count	1/4			of Section	T N,	R DNR Co	inty Code Ci	vil Town/Ci	Fee ty/ or Villag		S	F	eet [□ w
	12/16	010	a-		WI				<u>CQ U A</u>			· - I		1
	Length (In) Recovered	Counts	د	=	Name. Per							+ q		v
Je.	th over		다 다		s, Plasticity v/Consisten					a le	JO/FID	Standard	雪	ROD/ Comments
Number	Reco	B Q	Depth Feet		ologic Origi			•		Sample Type	PIO	Star	He H	S C C
		=		Sandy 5011, V	00ts. (Fill)					-		17	
			-	<u></u>					-	Geof	2054	2	+	<u> </u>
-			4'	SP, poorly oro	dod Gine/no	ed sad	, uniform	n, light	Yellow	Mod	roc	ore	11	
				Torn, 104R J	14/ (003	e, 0	ry.			E				
2			B 8=	_					•	E	0		11	
	-		 	Some as a									++	
				Some as a	mt of co	w	sady clan	r, soft a	them on	Ė_				
3			8 , =	Some as	WOOVE	1,00	sondy clander of the self driver plant	k, yeuwisi Ecity	n, lorn.	E	0			
			•61			_						-		
4			10 =	Some as	about	e .				E_	0			ļ
			=							E		19'-	1	
5			00_ 00_	Some we Wet sound	above	f_{i}					0		13	
	 		- 47	Wet sand	@~ 10	bys				E	 	و المحالية		
				<u></u>	(<u> </u>	 	1	11/	
(J			34=	Sue ara	40Ve	\bigcirc	24'10	33		E	0	39'		•
					- 2.0	. ري .						1	NO	
											<u> </u>			
Logg	ed By:	D_0	~ 7				Checked By	: -17.00						
F · 204	4A (R 1		<u>~</u>	action -			140	4-						

RMT	Proje										Page	.49	of 5	7
Projec	t Name	- 1	hov	hwoods Laundry			Start Date	12	End Date		В	oring N		1
	Drilled	Ву	<u>Je</u>	FF + RESO	Rowe	Klade	Drilling M	ethod	1 1/			700		<u>. </u>
56	5,	<u>I</u> ,	(C	AMIS		710000	Ge	& PLQK	ne .					
Drill R	ue Ĉ	150d	W	GH-40	Common Wel		Initial Wa	ier Level \	Surface Ele	vation	(166	rehole 7		cter
Boring	Locati Plane			sting	<u> </u>	thing			Local Grid		•	pplical	r le)	
State	1/4	of	1/4	1 of Section		i,r			Fee			F	eet [
Count	On	ارو	la		State _	DNR Co	unty Code	Civil TowolC M.A.	ity/ or Villag OCQUO					
Number	Length (In) Recovered	Blow Counts	Depth In Feet	Size Densit	Name, Per s, Plasticity y/Consister ologic Orig	v, Color, ncy, Ada	Odor, M litional C	Particle loisture, Comments,		Sanple Type	PIO/FID	Standard Penetration	Well Diagram	RQD/ Comments
				Sondy 5011 +	o red :	sand.	Dry,	sone roc) [
	(t		1,1=	SP, Pourly 50	inted me	2) Fine	Sandi	INIFOLM.	TOYR		prob			
	36		17 =	5/4, Yellow	en Brag	• , . –	·/	<i>y y</i>	-	Mc	NO CO	1		
			-	3C Bandy cla	1048 1	· //	, ,			<u>-</u>				
3	48"		8' =	rodor	1 LOYR (0/4 ds	- yellor	ush ban, n	ON-PLASTIC	Eu				
	-10		0 -	3/5 ms as	above									
	10		=	_						Ē				
3	48"		12,[=	,						ĘΨ	0			
				Some as	done				•	E				
- 6	1111									<u> </u>				
4	48"		[6 =	_		,			e #	Eu	0			
				> saturat	~ @NO	18'6	gs		-{	E				
5			90=	Sal as	above.				·	-11	0			
	 		=	<u> </u>							-			
										E	<u> </u>			
0			94=	Same as 0.0.13.	Ball					Ξu	0			
		 		EINIO.	グレイ・					+				
Logge	ed By:	Pel	()	Taghi			Checked E	2m 12	Q					•
F · 204	A (R 1												L	,

RMT	Proj∈	ct M									Pag	.50	ot C	[,] ク	
Project	t Name	T	N	to country	oundru		Start Date	01	End Date			oring N			
Boring	Drilled	-		Jeff o	d Row	e	Drilling M	ethod	(-/-/			'	<u> </u>		
SG	55	, I	NC	_		_	GOL	probe	 -						
Drill R	ig 0009		Ded	lge Pickup	Common Well		Initial Wa	ler Level	Surface Ele	vation	75	orehole 7		1	
Boring	Locati			isting	199	thing		- Gy-	Local Grid			applica	ble)	riches	
State	Plane 1/4 o	of		4 of Section		,R		_	Fe	et 🗆		I	[Feet] E] w	
Count	y ()	10	do		State WI	DNR Cou	inty Code	Civil Town Ei	ty/ or Village	ge					
Number	Length (In) Recovered	Blaw Counts	Depth In Feet	Grou Siz Densi G	p Name. Per es, Plasticity ty/Consister eologic Origi	r, Color, 1cy, Add in (Strai	Odor, M litional (tigraphic	f Particle Aoisture, Comments, Unit)		Sample Type	PIO/FIO	Standard Penetration	Well Diagram	ROD/ Comments	
				goll, sandy, Red sout So	some roo	CYR 4	ew gr	ovel	-0	111					=
<u> </u>	36"		4'=	grading in	to sp, fine	sand,	frace	silt. no	oder						-
			<u> </u>	Grading inte		•			-			-			_
			<u> </u>	1	1000	200			3+65	=					_
2	48"		$ \mathcal{B} $	3C, sondy ch	7.54R 5/4	brown	1,270%	fine soul 30	1. day		0				
										Ē				 	-
	רנ			5P, Fine/ma	dun sand,	unifo	rm, 10	OVR 5/4	dru.	<u> </u>					- ,
3	48"		は 三	151, Fine/ma			·			E	0				_(.
			=							E					
11	1104		./ (-		1 .					E		-	-		-
<u></u>	48		10=	Some as						E_	0	ļ		ļ	_
				181 Same a	695 -	3-				-					
5			20=	-		7				E	0			<u> </u>	_
				Jame a	s alson	N					-	-	 	 	-
										E					
6			24/	Same	as also	ve	2,0,0	<u>.</u>		E	0				_
<u></u> ,				T			_	· . —		+	 _			 	
													L		
Logge	ed By	1		Toghi			Checked 1	3y: R	a						-
F - 204	A (R 1	2-94)		000,000	·		<u>40</u>	- ()						 ĵ	_

	Proje	ct N						Pag		of L	25		
	t Name	•	Νt	onthwoods lounding s	tart Date V/7/01	End Date	01	В	oring N	Tumber	r		
	Drilled	Ву	3	- 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Orilling Method	·				<u> </u>	<u> </u>		
93		Inc			Geoprobe								
Drill 1	rig Ne	10	w/	GH-40 Common Well Name To	nitial Water Level	Surface Ele	vation	В	orehole Z		neter nehes		
Borin	g Locati Plane	on		sting Northing		Local Grid	Locatio		pplical	ole)] E		
	1/4	of	1/4	of Section T N,R			t 🗆		F	eet [
Coun	<u> </u>	erd	er	State DNR Cour	nty Code Civil Town Cit	MOCIQ							
Number	Length (In) Recovered	Blaw Counts	Oepth In Feet	Sizes, Plasticity, Color, C Density/Consistency, Addi Geologic Origin (Strati	Group Name. Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)								
				,	park Brown Sondy soil, some gravely roots								
(36		니를	5%, foothy graded elean me gravel, some trace clay zo yellowish brown, no odor, di	edum-fine said, nes 71" 104R	little Wo dark	Leo Msi	prolo No c	e ore				
				-		-	=						
2	36		83	Some as above, UNIFORM	ro gravel	-	<u> </u>	0					
					9								
3	36		12=	Sme as above			L _v	0					
				-		-							
4	48		16	Save as above			= (1	0					
	-		=	~ 186gs-}				£	1-		ļ <u>.</u>		
5	48		20	Some local growel zones	71" Some +	race	="	0	ļ				
	,			course sand.			=						
6	48		24	/ 402	of single was		Ē'	0	J+'				
7	48		28	Sme as above (+0p2' 51.	ough)		15			I'M	ave		
Logg	ged By	ete	~		Checked By:	22			-	1			

Appendix C Water Sample Logs



								Sheet ()	of 55
4 Heartland Trail	Mad	lison, WI 5371	7-8923 P. C	. Box 8923 (2	Zip: 53708-89:	23) (608)	831-4444	FAX: (608) 8	131-3334
ROJECT NAME	= W15	DOT	PREPARED		CH	IECKED	-	PROJ	ECT NO.
100 thursday	1-00	ndno-	By: PJT	Date: /(7/01 By	: LJB	Date: //	157/0107	42.01
		To vol			70,1			121101	
AMPLE NO.:	TW-I		WELL DI	AMETER:	□ 2" □ ¢	1" St Other	11		
			☐ Iron ☐ Oth						····
SAMPLE TYPE:) X(c	sw 🗆 v	w sw	□ DW	□ Leachate	□ Other _			
	do			(2)			0011		0.1
·	1119 11 3 3 3	3		10	DEPTH TO	WATER:	18.9/ +	0.00 II	death
WELL VOLUME		gallons	2		DEPTH TO	BOTTOM:	25 +	otal well	1
TOTAL VOLUM	E REMO\	/ED:	gallome		METHOD:	☐ Bailer, _	?	(Pump, <i>Pe/i</i>	staltic
DDOR: 12 Non	er		color: Ole	as_	TURBIDIT	Y: 🗗 (1/00 Sli	ne <	☐ Moderate ☐ Very	
DISPOSAL MET	THOD: 🗷	Ground E	POTW Dn	ım 🗆 Othe	er				
<u> </u>	MPLE	-	TIME: 153	30 -	DATE:	11/7/01			
			1	_		<i>'</i>			
ODOR: Z Nor	10 C		color: <u>U</u>		TURBIDIT	Y: ∠ZINo □Sii	one — aht	☐ Moderate ☐ Verv	
DH. 6.15	COL	NDUCTIVITY	= 1029 = 054m/=		цmh	ios/cm TEN	g MPERATUR	E: 164	· .c
COMMENTS	RP=13	IN Da	= 0.54 M/e	ORRECTE	CONDUCT	IVITY: SC+	(1 + 10.019	1 x (T - 25)));	ATC
								7,0	
		Appending the	NOT AF	PLICARI E					
FILTRAT	E (U.	45 μm)	<u></u>						
ODOR: D Not			COLOR:		COMMEN	NTS:			· · · · · · · · · · · · · · · · · · ·
DOR. D 140									
Oth		I ED	*PRESERVATI					····	
BOTTLE	ES FIL		A - None B	HNO3 C	- H ₂ SO4) - NaOH E			
BOTTLE	ES FIL	Туре		HNO3 C) - NaOH E	- HCL F-	Preservative	Filtered
BOTTLE	ES FIL		A - None B	HNO3 C Filtered	- H ₂ SO4	,		Preservative	YN
BOTTLE	ES FIL	Туре	A - None B	HNO3 C Filtered Y N	- H ₂ SO4	,		Preservative	Y N Y N
BOTTLE	ES FIL	Туре	A - None B	HNO3 C Filtered Y Y N Y N	- H ₂ SO4	,		Preservative	Y N Y N Y N
BOTTLE Number	ES FIL	Type Glaad	A - None B	HNO3 C Filtered Y N	- H ₂ SO4 E	Size	Туре		Y N Y N Y N
BOTTLE	ES FIL	Type Glaad	A - None B	HNO3 C Filtered Y Y N Y N	- H ₂ SO4 E	,	Type	Louview	Y N Y N Y N



							Sheet /	of 5 C
14 Heartland Trail	Madison, WI 537	17-8923 P.	O. Box 8923 (Z	Zip: 53708-6	923) (608)	831-4444	FAX: (608) 8	31-3334
PROJECT NAME	NIS DOT	PREPARED		(CHECKED		PROJE	CT NO.
Jorthwood	5 Loundry	ву: Р27	Date: W	7/01	By: LJB	Date: //	127/01 607	42.01
	1			-}				<u> </u>
AMPLE NO.:	CW-Z	WELL D	NAMETER:	□ 2" C	4" XDOther			··········
VELL MATERIAL:	EXPVC ISS	□ Iron □ O	ther					
SAMPLE TYPE:	Í\$AGW □'	ww 🗆 sw	DW (Leachat	e 🗆 Other			
	, 			···				
PURC	SING	TIME:15					0.00 UF	
WELL YOLUME: _	gallons			DEPTH	го воттом:	251	total Puc	leigh
TOTAL VOLUME F	REMOVED: 3	5 gallons		METHO	D: 🗆 Bailer, _		Dump, Perce	Autho
DDOR: None	gallons REMOVED: 3	COLOR:	lear	TURBID	ITY: No	ne / ' ght	☐ Moderate ☐ Very	
	OD: DG Ground	- □ POTW □ Dr	um 🗆 Othe	er				
	/							······································
CAN	DIE	TIME: 166	00 -	DATE:	U/7/01.		" "	
	IPLE	<u>_</u>		_	''			
ODOR: D None		color: C	lem-	TURBID	ITY: 💆 No		☐ Moderate ☐ Very	
nH. 10.26	CONDUCTIVIT	y: 538		un	nhos/cm TEN	ч Ирекатия	RE: 11.5 1	•
COMMENTS: OR	P= 37mV 0	2-2.10%	ORRECTED	CONDU	TIVITY: SC +	{1 + {0:01!	H x (T - 25)]}:/_	17
EII TDATE	(0.45 μm)	D/NOT A	PPLICABLE					<u> </u>
FILIRAIC	(0.40 pin)	<u>*</u>						
ODOR: D None D Other		COLOR:		COMMI	ENTS:			
								
	SELLED	PRESERVAT			D 11-011 F			
BOTTLES	J 1 1 Limber Land		- HINLLA L.	- ⊓ ₂ 3∪4	U-NAUD E	• MUL F-		
		A - None B	Filtered	Number	Size	Туре	Preservative	Filtered
Number Siz	е Туре	Preservative	Filtered	Number			1	Filtered Y N
	е Туре			Number			1	
Number Siz	е Туре	Preservative	Filtered	Number			1	ΥN
Number Siz	е Туре	Preservative	Filtered Y N	Number			1	Y N Y N
Number Siz	J Class Exchan	Preservative 6	Filtered Y N Y N		Size	Type	1	Y N Y N Y N



Sheet of the state	,3
Sheet \ \ \ of \frac{1}{2} \ of \frac{1}{2} \ \ 44 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-33	34
PROJECT NAME WIS DOT PREPARED CHECKED PROJECT	NO.
Vorthwoods Loundry By: PIT Date 21/7/01 By: LIB Date: 11/27/01/0742.	01
SAMPLE NO.: TW-3 WELL DIAMETER: 02" 04" Other 1"	
WELL MATERIAL: DOPVC SS In Iron Other	
SAMPLE TYPE: GW DW DSW DW Leachate DOther	
, , , , , , , , , , , , , , , , , , ,	
PURGING TIME: 1630 DEPTH TO WATER: 21.02 0.00 T/ PUC	
WELL VOLUME: gallons DEPTH TO BOTTOM: 25 + STA	yla
TOTAL VOLUME REMOVED: 3,3L gallons METHOD: Bailer, Pump, Peristra	the
COLOR NOME THEREIGHT	
DISPOSAL METHOD: L'Ground POTW Drum Other Other	
	· · · · ·
SAMPLE TIME: 1650 - DATE: 11/7/01-	
COLOR: ALGO TURRIDIDA TARRAS TORRIDIDA	
ODOR: I None COLOR: Slight Very	
ph: 6.27 CONDUCTIVITY: 606 ATC umhos/cm TEMPERATURE: 9.6	°C
ODOR: A None COLOR: COLOR: TURBIDITY: None Moderate Slight Very ph: 6.27 CONDUCTIVITY: 606 ATC umhos/cm TEMPERATURE: 9.6 COMMENTS: ORP = 94 nV Oa = 5.14 ns/corrected CONDUCTIVITY: SC+{1+[0.0191x(1-25)]}: ACC	<u>て</u>
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-	
	ltered
3 40nl Colors E Y N Y	N
YN	N
YN	N
YN YN Y	'N
CHAIN-OF-CUSTODY NUMBER: 14308 DATE SHIPPED: 11/8/01 METHOD: COUNTEN VIA. AIRBILL NUMBER: N/A SIGNED: DATE: 11/7/01	P/0



744 Heartland	Trail M	adison, WI 537	17-8923 P.	O. Box 8923 ((Zip: 53708	3-8923)	(608) 831-4444	Sheet 2 FAX: (608) 8	of <u>53</u>
PROJECT	NAME WIS	DOT	PREPARED			CHECKED		PRO	JECT NO.
Northwe	rods Lav	indry	By: PJT	Date:	11/7/01	By: [5	ß Date:	11/27/01/07	
		.,						1	
			WELL			□ 4" 1 5 2°C	Other		
SAMPLE T	,	-	□ Iron □ □ WW □ SW			ata 🗆 Oth			
SAMPLE	11-2.		VIVI 11 311		C) Leach		zi		
	PURGIN	IG .	TIME:	12	DEPTH	TO WATER	R: <u>198</u> 7	+0.00 T/	PUC
WELL VOL	.UME	gallons	r_Liteus_	_	DEPTH	1 TO BOTT	ом: 25°	total Puc	leigh
	LUME REMO	OVED:	Ogallens		METH	OD: 🗆 Baile	er	Pump, Peri	staltie
ODOR: Ø	None Other		COLOR: 😃	ear '	TURBI	DITY: 5	None '	□ Moderate □ Very	
DISPOSAL	METHOD:	Ground [POTW D	rum 🛘 Oth	er				
	<i></i>								
	SAMPL	E	TIME: 17	40	DATE:	11/1/0	7		
ODOR: Ø	None (<u> </u>	COLOR:	lean-	TURBI	DITY: A	1 None ≤	☐ Moderate	
ODOR: Ø	Other		11110	1-77	•		Slight	□ Very	_
рН: _ <i></i> _	TOOP CO	NDUCTIVITY	1: <u>770</u> = 2346 CF	12		ımhos/cm	TEMPERATU	☐ Moderate ☐ Very URE: /// // 191 × (T - 25)]): _	
COMMEN	rs. <u>Q</u>	ormo c	12-110	CORRECTE	- CONDL	JETIVITY: S	C + {1 + {0.0 *	191 x (T - 25)]): _	470
		1 10 19 1	1 /				· · · · · · · · · · · · · · · · · · · 		
FILTF	RATE (0	.45 μm)	Ø NOT A	PPLICABLE					
ODOR:			COLOR: _		COM	MENTS:		· · · · · · · · · · · · · · · · · · ·	
	Other			****					
	F. F. F.	LLED	PRESERVAT	IVE CODES					
BOI	TLES FI	LLED				D - NaOH	E-HCL F		
Number	Size	Туре	Preservative	Filtered	Numbe	r Size	Туре	Preservative	Filtered
3	Home	Glass	E	Y 🐠					YN
			-	Y N				ļ	YN
				YN					YN
	<u> </u>	ENCUA	7(12.13	YN		1-6	<u></u>		YN
	_		74308	DATE SHIPP	ED 1	18/01		Courier	via P/V
AIRBILL NU	мвек: <u>/\</u>	17A		SIGNED:	1220	3	- D/	ATE:	01



14 Heartland 7	rail Ma	ndison, WI 537	17-8923 P.	O. Box 8923 (Z	Tip: 53708-89	23) (608) 831-4444	Sheet	nf 5 5 9 831-3334
PROJECT N	AME Wi	5 DOI	PREPARED		CI	HECKED	•	PR	DJECT NO.
Vorthwo	odes 1	DUL AM	By: PJT	Date: M	18/01 By	1. 1. J.B	Date: (1/22/4 /	0742.01
300 11000	00.	-00/40/	1		7-7-1			1=1/=1	<u></u> '
SAMPLE NO).: TW	-5	WELL!	DIAMETER:	□ 2" □	4" Ø Other	- 14		
			□ Iron □ C			· · · · · · · · · · · · · · · · · · ·			
SAMPLE TY	PE: Z	GW 🗆	ww 🗆 sw	D DW I	☐ Leachate	☐ Other _			
P	URGIN	G	TIME:	000	DEPTH TO	O WATER:	19.45+	1000 I	
WELL VOLI	JME:	gallons	J ·		DEPTH TO	э воттом:	25.	TOTAL PUL	PUZ
TOTAL VOL	UME REMO	VED:	gallens	Л	METHOD	: 🛘 Bailer, _		Johnney, <u>(Ce/</u>	restaltic
ODOR:		:	COLOR:	ear!		Y: 54No	one en	□ Moderate	
, - -	Other	76	POTW 🗆 D			∕□ Sii	ght	□ Very	
DISPOSAL	METHOD: I	J'Ground L	JPOIN LID	rum Li Otne	or				·
		3 32 Sec. 1 110				11/0/0	,		
	SAMPL		TIME: LO	20	DATE: _	(1810.	<u></u>		
ODOR: 1			COLOR:	lev-	TURBIDI			☐ Moderate	
	Other	NIDLICTIVITY	ı: <u>1059</u>	· ~		SI 🗆 🗡	•	□ Very RE: <u>//, </u>	~~ ~~
			2= 5.20 mb/2		CONDUC	nos/cm lei	14 - 10 04	177 DE 177	AVZ
COMMENT	<u> </u>				O O O D	110111111111111111111111111111111111111	11. (0.01.	31 X (1 - 2077)	
	ATE (0		DAIOTA	APPLICABLE		, , , , , , , , , , , , , , , , , , , 			
-HLIK	AIE (U	.45 μm)	ゴ /						
ODOR:	None Other		COLOR: _		COMME	NTS:		· · · · · · · · · · · · · · · · · · ·	
	Odiai								
	I FO F	HED	'PRESERVA	LIVE CODES:					
BOTT	LES F	LLEU		3-HNO3 C		O-NaOH E	- HCL F-		
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered
3	40~	Glass	Ø	Y (N)				*	YN
				YN					YN
				YN					YN
		SNCHEM	71/2-	YN		101			YN
	USTODY NUM	MBER:	74309	_ DATE SHIPP	ED: VI/	8/01	METHOD	: Courier	va 1/v
URBILL NUM	18ER: <u>\</u>	1/A		SIGNED:		2000	DA DA	TE: 11/8	101



				<u></u>				Sheet 45	of <u>53</u>
14 Heartland	Trail N	Madison, WI 537	17-8923 P.	O. Box 8923 (2	Zip: 53708-8	923) (6	08) 831-4444	FAX: (608)	331-3334
PROJECT I	NAME WIS	DOT	PREPARED		(HECKED		· PRO.	IECT NO.
Jorthwa	es La	undry	By: PST	Date: 1	18/01	By: LJB	Date: (1/27/4 107	142.0 (
		0							
SAMPLE N	o.: <u>Tu</u>	1-6	WELL 0	NAMETER:	□ 2". □	4" 12 Oth	er <u>''</u>		
WELL MAT	ERIAL: 1	PVC - 55	□ tron □ O	ther					
SAMPLE T	YPE: 5	√ GW □	ww osw	□ DW	☐ Leachat	e 🗆 Other			
F	URGIN	VG	TIME: 09	715	DEPTH	O WATER:	20.06	0.00 T/	PUC
						о воттом	. <u>25.00</u>	+ <u>T/ (</u>	
TOTAL VO	LUME REM	OVED: 4	5 (1900)		METHO	D: 🛭 Bailer,		🗗 Pump, <u><i>Per</i></u>	stalte
ODOR: 🙇	None — Other		5 Lifer 5 gallons COLOR: B	rown -	TURBID	TY: 🗆 i	None Slight	☑ Moderate ~	
DISPOSAL	METHOD:	☑ Ground [POTW D	rum 🗆 Othe	er				
ODOR: Ø		E	TIME: <u>P</u>	4		ידץ: צו ודץ:	None –	☐ Moderate	
/_	OM:						Clickt	□ \/op.	ے زی
р н : <i>Ø</i>	000	ONDUCTIVIT	$V = \frac{100}{100}$	SIL MIC	un	hos/cm T	EMPERATU	RE: //,	
COMMENT	s: UNI	2 10MV	07, 3,11	CORRECTEL	CONDUC	TIVITY: SC	÷ (1:+ [0.01	91 x (T - 25)]):	,, (
FILTE	ATE ().45 µm)	A TON D	PPLICABLE					
ODOR:			COLOR: _		COMME	NTS:			
	Other		-						
		<u></u>	'DOCOCOLO	INC CORES					
BOT	rles f	ILLED	PRESERVAT A - None B	- HNO3 C		D - NaOH	E-HCL F-	·	
Number	Size	Туре	Preservative*	Filtered	Number	Size	Туре	Preservative	Filtered
3	40ml	GloAs	E	Y 🕦					ΥN
				ΥN					ΥN
				ΥN					ΥN
		0.012.00		YN					YN
	USTODY NL		74309	DATE SHIPP	ED: V	1/8/01		Courses	
AIRBILL NUI	ивек: <u>Л</u>	1/A		SIGNED:	Y	X # 8 CT	DA	TE: 1/8/	<u>'01</u>



	-						Sheet 2	of <u>65</u>
14 Heartland Trail N	ladison, WI 537	17-8923 P.	O. Box 8923 (Zip: 53708-89	23) (60	8) 831-4444	FAX: (608)	
PROJECT NAME WIS	5 501	PREPARED		CI	HECKED			JECT NO.
forthwoods-Lar	MANY-	By: P3T	Date: 1	[8/01 B)	"LJB	Date: 11	127/01 10	1420
	7							
AMPLE NO : 2-Be	5+ PZ-	1_ WELL	DIAMETER:	O 2" O	4" /ZI Othe	er		
VFLL MATERIAL: 17	_				. '	· 		· - ·
AMPLE TYPE: 7	S GW U	ww usw	□ DW	☐ Leachate	☐ Other			
PURGIN	1G	TIME:	245	DEPTH TO	WATER:	17.75	0.00 TI	PVC
VELL VOLUME: 3.	allons			DEPTHT	о воттом:	37.25.	0.27 I	PVC
OTAL VOLUME REM	OVED:	galleris	0	METHOD	- □ Bailer	T.	Dump, Pe	ristalt
DDOR: None -		COLOR: <u>(</u>	lear-	TURBIDIT	γ:) 💋 N	ono	☐ Moderate	
Other					s	light	☐ Very	
DISPOSAL METHOD:	Ground D	POTW LIB	rum LI Oth	er				
	<u></u>				1 2/1			
SAMPL	E ,	TIME: 12	_	DATE: _	, .			
ODOR: None		COLOR:	Olean	TURBIDI	ry: Z	lone ′	☐ Moderate	
Other		1688	-		/ 🗆 8	ilight	□ Very 16 7	, -
pH: 6 COMMENTS: OR	ONDUCTIVITY	Paz 032	sti_	μm	nos/cm	MPERATUR	(E: 10. C	
COMMENTS: VI	1110	0000	CORRECTE	D.CONDUC	IIVITY; SC	+ (1.+ (0.018	11 x (1 - 25)]);	771~
								
FILTRATE ().45 µm)] ATOMATA	APPLICABLE					
ODOR: None		COLOR: _		COMME	NTS:			- ·
Other		_			- :			
		'DDECEDVA	TIVE CODES					
BOTTLES F	ILLED		TIVE CODES 3 - HNO3 C		O-NaOH E	E-HCL F-		
Number Size	Туре	Preservative*	Filtered	Number	Size	Гуре	Preservative*	Filtered
3 40m	2 Glass	6	Y Ø					YN
			YN					YN
			ΥN					YN
			YN		/ . /		<u></u>	YN
CHAIN-OF-CUSTODY N			_ DATE SHIPE		8/01	METHOD	Corner	Va P
IRBILL NUMBER:	MA		SIGNED:	TUR	1	DA DA	TE: 11/8/	0-1



4 Heartland	Trail	Madison, WI 537	17-8923 P.	O. Bux 8923 (Zip. 53708-89	(60	18) 631 -4444	Sheet FAX: (606) 8	of <u></u>
			T	-					
ROJECT	Α .		PREPARED		7-1-	HECKED	<u> </u>		ECT NO.
orthuba	MA L	aundry	By: PIT	Date: \	16/01 B	LJB	Date: [1/27/01/107	72,01
AMPLE N	2-1	sest MW-	7 - WELL	NAMETED:	М2" П	4" [] Oh			
		(Pvc □ss			<i>y</i> -	4 L Out	aı		
		geve ⊔ss pe∈gw : □'			□ Leachate	☐ Other	*****		
	/		<u></u>						-
	H IDOI	NO	TIME: 1613	5	DEPTH T	O WATER:	17.36 +	0.00 TI	PUC
2000-00-0	URGI								
VELL VOL	JME:}	ィ <mark>ラ</mark> gallons MOVED: <u></u>	13 Liter	1				0.27 1/1	
OTAL VO	UME RE	MOVED:	-gations	1	METHOD	: D Bailer,	——	Pump, Per	staltic
DDOR: [] ZI	None Other	pasolne	, color: <u>C</u>	en :	TURBIDIT	Y: D /N	lone (Slight	☐ Moderate☐ Very	
		: DG Ground I			er				
		1						•	-
	SAMP	LE.	TIME:	040-	DATE: L	412/01			
DDOR:	None	nsolvie	COLOR: (lear	TURBIDI	IV: 1/2 1	lone -	☐ Moderate	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Other(sasolue				··· /G	Slight	C Ven	,
oH: <u>_ (0 г</u>	35	CONDUCTIVIT	۷: <u>ایک ک</u>	5 A1	C- um	nos/cm TE	EMPERATUR	Very -	7 •c
COMMENT	s: ORP	=-63mV	02=0.31 J	CORRECTE	CONDUC	IIVITY: SC	+ (1 + [0,01 9	1 × (T - 25)]): _	ATC
						. ••			
FILTS	ATE (0.45 μm)	Z NOT A	PPLICABLE					
	ng the specific services		<u> </u>		COMME	NITC»			
odor: 🗆	Other			· · · · · · · · · · · · · · · · · · ·	COMME	N15			
				·					
вот	TLES!	FILLED		TIVE CODES		. N. OU	- 1101 - 5	1 13	
Number	Size	Туре	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
3	40~		15	Y (N)	TTOTAL	0120	1 1,00	1 TOSSITION TO	YN
_7	(UMV	Class		YN		 		 	YN
 				YN			1		YN
				YN					ÝN
	<u> </u>	5,,	MA 74205	<u> </u>		DAI	1	A 4125	1
		NUMBER: EACT	17000 1700C	{		200	METHOD:	Courser 16 Malo	1
IRBILL NUI	//DEK:			SIGNED:	IN IN	50		, .	1 4
		Note:	this San	rple u	vas n	ot put	on the	L (OC.	
186 (REV	1/9/97)	المستعب المستعب	71 1	In adda	d.+ ·	to the	LOC	I:\WP\ADI	M\F-186.DO



								Sheet 3	of 9 7
14 Heartland Tra	nil Mad	dison, WI 5371	7-8923 P.	O. Box 8923 (Zip: 53708-8	923) (60	8) 831-4444	FAX: (608) 8	331-3334
PROJECT NA		Khwoods	PREPARED			CHECKED		PROJ	ECT NO.
WISDOT	t_au	dry_	By: PST	Date:	5/01 E	BY: LJB	Date: (1/27/01 10	142.01
		0						7	
SAMPLE NO.	Z-Best	MW-3	WELL D	NAMETER:	25 (2" C	14" □ Oth∈	er		
	•		□ Iron □ O				 		
SAMPLE TYP	E: 151/1	SW □V	vw □sw	□ DW	□ Leachat	e Other_			
PL	JRGIN	3	TIME: 1600	2				0,00 T/F	
WELL VOLUM	ИЕ: <u>\ \ г</u>	gallons 2	264		DEPTH	о воттом:	26.60.	0.27 T/	puc
TOTAL VOLU	ME REMO	VED: 405	<u>_</u> gallons		METHO	D: 🗆 Bailer,	لم	Q Pump, Pero	stalte
ODOR: M N	one – ther		color:	lear '		TY: ÆN	one -	☐ Moderate ☐ Very	
			POTW 🗆 Di		er				
S	ΔΜΡΙΙ		TIME: 16	30/	DATE:	145/01	·		
0000 4 N				lear.	חוספות	TV. DA	lono -	□ Moderate	
	one Other		1110	<u></u> 	1011010		llight	□ Very	
рн: <u>6.3</u>	3 Cco	NDUCTIVITY	1450	<u> </u>	ип	hos/cm TE	MPERATUR	□ Moderate □ Very RE: /// (((((((((((((((((<u>0°</u>
COMMENTS	ORY=	73 NV C	12 = 3.55 19/20	CORRECTE	CONDUC	TIVITY: SC	= {1 + [0 01	эт х (Т - 25)]) :: .	ATC
			_						
FII TRA	ATE (O.	45 um)	A NOT A	PPLICABLE					
o DO R: □ 1						NTS:			
	Other								
вотті	LES FI	LLED	PRESERVAT A - None B	IVE CODES	: - H ₂ SO4	D - NaOH I	E-HCL F-		
Number	Size	Туре	Preservative	Filtered	Number	Size	Туро	Preservative	Filtered
3	Hand	Glass	12	Y 🐠					YN
				YN					YN
				YN					YN
				YN		1			YN
CHAIN-OF-CU			308	_ DATE SHIPS	\$60. (X	11/8/0	METHOD	Courier TE: 11/8/0	8/0
AIRBILL NUME	BER:/	U/A		SIGNED:			DA	TE: 11/8/0	(



								Sheet 35	of 5 5
4 Heartland	Trail	Madison, WI 537	17-8923 P.	O. Box 8923 (Zip: 53708-89	(60	8) 831-4444	FAX: (608)	31-3334
PROJECTIN	IAME W	11500	PREPARED		С	HECKED		PRO.	IECT NO.
bothwa	ods L	andris	By: P.3.T	Date: K	<i>18/8</i> €	y: 15B	Date: (1/27/01/107	42.0
			<u> </u>	1	15/01	, ,,,,,		HEI/ON .	
SAMPLE NO	1: 2-6	Bost MW-	-ゲ WEILI	DIAMETER:	М2" П	4" ACTO	1 J		
		PVC SS			X -	+)2.22	^- <u>-1</u>		
SAMPLE TY		_	ww 🗆 sw		☐ Leachate	□ Other			
	/	<u>/</u>							
	URGI	NIO	TIME:17	108	DEPTH T	O WATER:	8.P1.	0.00 T/	OVC
			ä						
VELL VOL	JME:	SL gallons	In Fed?	<u> </u>				0.27 TI	
TOTAL VOL	UME RE	MOVED:	g allèns		METHOD	: 🛘 Bailer, _	<u></u>	Rump, Per	15thur
DDOR: ロ 肉	None (etroleun	COLOR:	lear.	TURBIDIT	TY: 721N	one / T	☐ Moderate ☐ Very	
		Ground [ngi i	a voly	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
DDOR: DDDOR: DDD	None Re Other Re 37/ s: 08	LE Stroleum Conductivity P= 58~1	993	Clear S- ymy/L- CORRECTED		, ,		□ Moderate □ Very RE: <u> </u>	, ATZ
FILTR	ATE (0.45 μm)	Z NOT A	PPLICABLE					
ODOR:	(1°) (A ₁ , a ₁ , 3°)	tings (Missile January Missile Control	م الت		COMME	NTS:			
	Other		-						
вотт	LES	FILLED	PRESERVAT A - None E	TIVE CODES 3 - HNO3 C	: - H₃SO4 [D - NaOH E	- HCL F-		
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered
3	Hand	GLAAS	E	Y (N)					YN
	- (42-12-			YN					YN
				YN					YN
				ΥN					YN
SUAIN OF C	ETONE	LOTEM 743	308	DATE OUTE	50:) 11/	8/01	METURE	Corriso.	L
:HAIN-OF-CI IRBILL NUM	JOTOUY N IBER:	N/A		SIGNED.	6	1	METHOD:	Correr TE: 148/0	1
**************************************				5.5.125.			JA		10



Heartiand T	rail Ma	adison, WI 5371	7-8923 P.	O. Box 8923 (2	Zip: 53708-8	923) (608	B) 831-4444	Sheet FAX: (608) t	331-3334
ROJECT N	AME Nonthi	woods-	PREPARED By: やゴブ	Date: W	.——	HECKED y: してら	Date: [[ECT NO
	_	" +	Dup	LCA	70			•	
	•	st Mw-	5 WELL	NAMETER:	A 5. 0	4" □ Othe	Γ		
	RIAL: DE		□ Iron □ O		····				<u> </u>
AMPLE TY	PE: Y	GW 🗆 V	w sw	DW I	☐ Leachate	Other_			
				-72		<u> </u>	1212	0.00	
P	URGIN	G	TIME:	2(0		O WATER:	_		0. 4
VELL VOLU	JME: 1.3	gallons		_	DEPTHT	О ВОТТОМ:	25.45+	0.27 T/	KNC
OTAL VOL	UME REMO		gallons gallons	\geq_{n}	METHOD	: D Bailer, _	5	Pump, <u>Per</u>	19 ta
DOOR:	None Other	asoline	COLOR:	Kea "	TURBIDI'	ry: Z N		☐ Moderate ☐ Very	
JEPOÉAL	METHOD:	Ground E	POTW D	rum 🗆 Othe	er				
	/					,			
	SAMPL	E	TIME: LS	40	DATE: _	11/6/01			
DDOR:	None (andine	color: (lean	TURBIDI	TY: 10 N	one "	☐ Moderate	
مر م	Other <u>5</u>	NDUCTIVITY	. 640			C⊡S hos/cm: TE		□ Very E. 73.7	1 /
OH: <u>(g*</u>				CORRECTED	CONDUC	TIVITY: SC	. {1 + [0.019	1 × (T - 25)]):	#10
JU10110112111	<u> </u>								
	1 9244 (12.4)		T NOT A	PPLICABLE					
	ATE IN	A							
FILTR	ATE (0	.45 µm)	<i>_y</i>						
ODOR:	None	.45 µm)	<i>_y</i>		СОММЕ	NTS:			
ODOR:	5 - 15 15 P.	.45 μm)	<i>_y</i>		COMME	NTS:			
ODOR: 🗆	None Other		COLOR: _			NTS:			
ODOR: 🗆	None		COLOR: _		:			,	
BOTT	None Other		COLOR: _	TVE CODES - HNO3 C Filtered	:			Preservative	Filter
BOTI	None Other	ILLED	COLOR: PRESERVAT A - None B	Filtered	: - H₂SO4	D - NaOH E	-HCL F-	,	Y
BOTT	None Other	Туре	COLOR: PRESERVAT A - None B Preservative	Filtered Y N	: - H₂SO4	D - NaOH E	-HCL F-	,	Y
BOTT	None Other	Туре	COLOR: PRESERVAT A - None B Preservative	Filtered	: - H₂SO4	D - NaOH E	-HCL F-	,	Y

H



4 Heartland	Tmil M		47 0000 0	A Day 9000 /7:	50700 000		924 1111	EAV: /608		
	rraii w	ladison, WI 537	17-0923 P.	O. BOX 6923 (ZI)	p: 53708-892	3) (608)	031-4444	· //// (000	831-3334	
ROJECT	NAME NO	nthwoods	PREPARED	·	СН	ECKED		PRO	DJECT NO).
1.5 DOT	Laun	duy	By: PIT	Date: 11/0	6/01 By:	LJB	Date: (1/27/01 10	742.6	7
		7			- í					_
AMPLE N	10.: NCI	MW-Y	WELL [DIAMETER:	1 2"	" Other	·			
ELL MAT	TERIAL: DEP	VC 133	□ Iron □ O	ther	·					_
AMPLET	YPE: ' /	GW 🗆 1	ww 🗆 sw	□ DW □	l Leachate	Other				
									_	
i i i	PURGIN	IG	TIME: 121	∂ .	DEPTH TO	WATER:	17.147	0.00 T/	PVC	
/ELL VOL	UME: 1.3	gailons	<u>.</u>		DEPTH TO	BOTTOM:	24,55.	0.27 I	PVC	
OTAL VO	LUME REMO	OVED: <u>5</u>	gallons	1 /	METHOD:	☐ Bailer, _	عرع	TPump, <u>Pe</u>	15tal	40
DOR: Ø	None ~		COLOR: 💪	len '	TURBIDITY			☐ Moderate		
/	Other			5 60		∕ 🗆 Slig	ıht	□ Very		
ISPOSAL	_ METHOD:	El Ground L	POTW D	rum U Other						
	<u>, , , , , , , , , , , , , , , , , , , </u>					,				
						7 7 7 7	,			
	SAMPL	Ε		40		. /				
DOR:	None C	<u> </u>	TIME: 124 COLOR: 4	4		. /	ne '	☐ Moderate		_
DOR:	None F	rel'	COLOR:	lear	TURBIDITY	/: Z No	a la t	CI Ven		
DOR:	None F	rel'	COLOR:	lear	TURBIDITY	/: Z No	a la t	CI Ven	<i>-</i>	•c
DOR:	None F	rel'		lear	TURBIDITY	/: Z No	a la t	CI Ven	ATC	•c
DOR:	None F	rel'	color: (lear Scorrected	TURBIDITY	/: Z No	a la t	CI Ven	ATC.	•c
DDOR: D	None For Co	rel'	color: 6	lear	TURBIDITY	/: Z No	a la t	CI Ven	ATC	*C
H: 6	None For Other For Control of the Co	sel' DNDUCTIVITY 101 mV B	COLOR: (2)	lear Scorrected	TURBIDITY Lumbo CONDUCTI	NO SIN	9ht PERATUR (1->- (0:019	CI Ven	ATC.	•c
DDOR: DOMENT	None For Other For Control of the Co	sel' DNDUCTIVITY 101 mV B	COLOR: (2)	CORRECTED PPLICABLE	TURBIDITY Lumbo CONDUCTI	NO SIN	9ht PERATUR (1->- (0:019	CI Ven	ATC	*C
H: 6	None For Other For Control of Con	sel' DNDUCTIVITY 101 mV B	COLOR: COLOR: COLOR: _	CORRECTED PPLICABLE	TURBIDITY Lumbo CONDUCTI	NO SIN	9ht PERATUR (1->- (0:019	CI Ven	ATC	*c
H: 6	None For Other For Control of Con	sel/ ONDUCTIVITY (01 mV B .45 μm)	COLOR: COLOR:	CORRECTED PPLICABLE	TURBIDITY pumbo GONDUCTI COMMEN	/: No Signal No	9ht IPERATUR (1:0-19	□ Very SE: <u>/ ͡ᠫ. /</u> S1.x (T - 25)]}:	ATC	*C
H: 6	None Cother Coth	sel/ ONDUCTIVITY (01 mV B .45 μm)	COLOR: COLOR:	CORRECTED PPLICABLE	TURBIDITY pumbo GONDUCTI COMMEN	/: No Signal No	9ht IPERATUR (1:0-19	□ Very SE: <u>/ ͡ᠫ. /</u> S1.x (T - 25)]}:	ATC.	
H: 6 COMMENT	None Other COTS: OR C	rel/ DNDUCTIVITY (0) πV B .45 μm)	COLOR: CO	PPLICABLE TVE CODES: - HNO3 C-	TURBIDITY CONDUCTI COMMENT	No Signal No Sig	pht IPERATUR (1→ (0:018	□ Very SE: <u>/ ͡ᠫ. /</u> SI. x (T - 25)]}:		ed
FILTF DDOR: D BOT Number	None Cother Coth	MDUCTIVITY (OI mV B .45 μm)	COLOR: COLOR: COLOR: COLOR: PRESERVAT A - None B	PPLICABLE TVE CODES: - HNO3 C- Filtered	TURBIDITY CONDUCTI COMMENT	No Signal No Sig	pht IPERATUR (1→ (0:018	□ Very SE: <u>/ ͡ᠫ. /</u> SI. x (T - 25)]}:	Filter	ed
DDOR: DOMENT	None Other COTS: OR C	MDUCTIVITY (OI mV B .45 μm)	COLOR: COLOR: COLOR: COLOR: PRESERVAT A - None B	PPLICABLE TVE CODES: - HNO3 C- Filtered Y N	TURBIDITY CONDUCTI COMMENT	No Signal No Sig	pht IPERATUR (1→ (0:018	□ Very SE: <u>/ ͡ᠫ. /</u> SI. x (T - 25)]}:	Filter	ed N
DDOR:	None Other COTS: OR C	MDUCTIVITY (OI mV B .45 μm)	COLOR: COLOR: COLOR: COLOR: PRESERVAT A - None B	PPLICABLE IVE CODES: - HNO3 C- Filtered Y N Y N	TURBIDITY CONDUCTI COMMENT	No Signal No Sig	pht IPERATUR (1→ (0:018	□ Very SE: <u>/ ͡ᠫ. /</u> SI. x (T - 25)]}:	Filten Y Y	ed N
BOT Number	None Cother Coth	AS µm)	COLOR: COLOR: COLOR: COLOR: PRESERVAT A - None B	PPLICABLE IVE CODES: - HNO3 C- Filtered Y N Y N	COMMENT H ₂ SO4 D Number	No Signal No Sig	PERATUR (1→ (0:019) HCL F- Type	□ Very SE: <u>/ ͡ᠫ. /</u> SI. x (T - 25)]}:	Filter	N N



								39	ζZ
Heartland Tra	ail Mad	lison, WI 537	17-8923 P.	O. Box 8923 (2	Zip: 53708-892	(608)	831-4444	Sheet FAX: (608) 8:	of <u>) /</u> 31-3334
ROJECT NA	ME WIS	DOT	PREPARED		СН	ECKED	 _	PROJE	ECT NO.
lenthwa	ds Lau	indry.	ву: 871	Date: 11	16/01 By:	LJB	Date: /	1/27/01/074	2.01
		7			V				
AMPLE NO.	NCI	MW-5	WELL [DIAMETER:)3(2° 04	" Other			
/ELL MATEF	RIAL: XPV	c 🗆 ss	□ iron □ O	ther					
AMPLE TYP	PE: / X	w u	ww 🗆 sw	□ DW I	☐ Leachate	☐ Other _			
							_	_	
Pl	JRGINO	3	TIME: 17	00		WATER:		D.00 TI	PUC
VELL VOLUM			o Litera	. (DEPTH TO	ВОТТОМ	25.491 +	0.27 T	puc
OTAL VOLU	JME REMO\	/ED: 5.	gettons		METHOD:	☐ Bailer, _	<i>F</i>	SPUMP, <u>Per15</u>	taltic
DDOR: [] N	one G	el -	COLOR:	NONE	JURBIDIT	_	ne –	□ Moderate □ Very	
/ DISPOSAL M	IETHOD: Z	Ground C	D POTW D	rum 🗆 Othe	er				
	1								
DDOR: D N ZT C	4 con	Adué NDUCTIVIT	1: <u>707</u>	lean Torrected	and the second	Y: No Si Os/cm TEM	ight MPERATUR	☐ Moderate ☐ Very E:	f ~
FILTR/	ATE (0.	45 μm)	NOT A	PPLICABLE		···	<u> </u>		
	None Other	<u> </u>	/ COLOR: _		COMMEN	TS:			
		LED	PRESERVAT		:				
	Other	LED.	PRESERVAT	TIVE CODES	:			Preservative	Fillered
ВОТП	Other	Туре	PRESERVAL A - None E	FIVE CODES 3 - HNO3 C	: - H ₂ SO4 D	- NaOH E	- HCL F-	7	Filtered Y N
BOTTI	ES FIL		*PRESERVAT A - None E Preservative	Filtered	: - H ₂ SO4 D	- NaOH E	- HCL F-	7	
BOTTI	ES FIL	Туре	*PRESERVAT A - None E Preservative	FIVE CODES: 3 - HNO3 C Filtered Y	: - H ₂ SO4 D	- NaOH E	- HCL F-	7	Y N
BOTTI	ES FIL	Туре	*PRESERVAT A - None E Preservative	FIVE CODES 3 - HNO3 C Filtered Y N	: - H ₂ SO4 D	- NaOH E	- HCL F-	7	Y N Y N
BOTTI Number	ES FIL	Type Glassi	*PRESERVAT A - None E Preservative	Filtered YN YN YN	: - H ₂ SO4 D Number	- NaOH E	- HCL F- Type	7	Y N Y N Y N Y N



14 Heartland Trail M	adison, WI 537	17-8923 P.	O. Box 8923 (Zip: 53708-8	1923) (608	831-4444	FAX: (608) 8	31-3334
PROJECT NAME		PREPARED			CHECKED	· 	PRO	ECT NO.
45 DOT Nontin	200	By: PST	Date: 1		By: Los 13	Date: c	1/27/01/107	
	2000)	[-), (-)		10/01	3. W.15	1 (4 Lyon 101	7 18(1 -
SAMPLE NO.: NCT		WELL	IAMETED:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.4" [] Other			
WELL MATERIAL: X F				•				
,		ww 🗆 sw				2		<u> </u>
DURGIN		TIME: DE	326	DEPTH T	TO WATER: [6-42-	0.00 TI	PUC
PURGIN							0-27 TI	
WELL VOLUME:	-		(DEPTH	TO BOTTOM:) & " • +	Pump, Pre	4/4
OTAL VOLUME REM	OVED:	gallons	ِ م	METHO	D: Baffer, _		Pump, C/t	merce
ODOR: None Other		COLOR: Q		TURBIU	IIY: XINC □Sli	ne ght	☐ Moderate ☐ Very	
DISPOSAL METHOD:								· · · · · · · · · · · · · · · · · · ·
	·	·						
		TIME: O9	00 -	DATE:	11/6/01			
SAMPL					·			
ODOR: None Other		COLOR: 🧘	laar	THORSE			C Madazata	
C Other				TURBIL	אנגע: אוץ: סאנגע: חצוי	ne aht		
	DNDUCTIVITY	_			□ SI	ght	□ Very	~ ·(
	ONDUCTIVITY 6.19 ~8/L	_			□ SI	ght	□ Very	47
	ONDUCTIVITY 6.19 M/L	_			□ SI	ght	□ Very	47
pH: <u>(4.65</u> CC COMMENTS: <u>Oz</u> = 0		1: 781 URP- 230	CORRECTE		□ SI	ght	□ Very	470
		781 URP- 230	CORRECTEL	LICONDUC	□SI nhos/cm TEI	ght MPERATUF (1 + [0.011	□ Very	47 (
PH: 4.65 CC COMMENTS: 02 = 0 FILTRATE (0 ODOR: None		781 URP- 230	CORRECTEL	LICONDUC	□ SI	ght MPERATUF (1 + [0.011	□ Very	47 (
PH: 4.65 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		781 URP- 230	CORRECTEL	LICONDUC	□SI nhos/cm TEI	ght MPERATUF (1 + [0.011	□ Very	47.
PH: 4.65 COMMENTS: OZ = OZ	.45 μm)	781 URP- 230 NOT A COLOR:	ATC CORRECTED	COMMI	□SI nhos/cm TEI	ght MPERATUF (1 + [0.011	□ Very	47 (
PH: 4.65 CC COMMENTS: 02 = 0 FILTRATE (0 ODOR: None	.45 μm)	PRESERVAT	CORRECTED PPLICABLE TIVE CODES	COMMI	□SI nhos/cm TEI	ght MPERATUF (1 + [0.011	□ Very RE: 11/3	47 (
PH: _(.65COMMENTS: OZ = COMMENTS: OZ = COMENTS: OZ = COMMENTS: OZ = COMENTS: OZ = COME	.45 μm)	PRESERVAT	CORRECTED PPLICABLE TIVE CODES	COMMI	ID SI	ght MPERATUF (1 + [0.011	□ Very RE: 11/3	47 C
PH: _(.45 μm) ILLED	PRESERVAT A-None B	PPLICABLE TVE CODES - HNO3 C	COMMI	D-NaOH E	ght MPERATUF (1 + [0:01s	□ Very RE: 11/3 11 x (T - 25)]): 2	
PH: _(.45 μm) ILLED	PRESERVAT A - None B Preservative	PPLICABLE TIVE CODES - HNO3 C Filtered	COMMI	D-NaOH E	ght MPERATUF (1 + [0:01s	□ Very RE: 11/3 11 x (T - 25)]): 2	Filtered
PH: (.65 CCCOMMENTS: OZ = CCCOMMENTS: OZ = CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	.45 μm) ILLED	PRESERVAT A - None B Preservative	PPLICABLE TIVE CODES - HNO3 C Filtered Y	COMMI	D-NaOH E	ght MPERATUF (1 + [0:01s	□ Very RE: 11/3 11 x (T - 25)]): 2	Filtered Y N
FILTRATE (O ODOR: None Other Number Size HOLL	.45 μm) ILLED Type Glaw	PRESERVAT A - None B Preservative	PPLICABLE TIVE CODES - HNO3 C Filtered Y N	COMMI	D-NaOH E	HCL F-	□ Very RE: 11/3 11 x (T - 25)]): 2	Filtered Y N Y N Y N



4 Heartland Tra	ail Mat	dison, Wl 5371	7-8923 P.	O. Box 8923 (2	Zip: 53708-89	23) (608	3) 831-4444	Sheet 45 FAX: (608) 8	
PROJECT NA	ME 10 MM	hwoods	PREPARED		CI	HECKED		PROJ	ECT NO.
U15/0T	1 2010	day.	By: PJT	Date: (\	16/01 B	: 1-56	Date: (1/27/01/074	12.01
- () 0-1	120011				[- 		<u></u>	12401	
SAMPLE NO.:	NCI	MW-10	WELL	DIAMETER:	Ìg∕5 □	4" ☐ Othe	r		
VELL MATER			□ Iron □ C	Other	·-···		···		
SAMPLE TYP	E: ' DX	w □v	w osw	DW I	□ Leachate	Other_			
PU	JRGING	G	TIME: 102	10		WATER:		_	
VELL VOLUM	ME: 1,3	gallons			DEPTH TO	ВОТТОМ:	24.85.	0.27 T/	puc
TOTAL VOLU	ME REMO	VED:	1 Literal gallons	 1 _		□ Bailer, _		- 7	ristalt
DOOR: I NO	one ther <u>Ga</u>	soline	COLOR: 🗘	lear	TURBIDIT	Y: 2 No	one /	□ Moderate □ Very	
DISPOSAL M	ETHOD: 5	Ground E	POTW D	rum 🗆 Othe	er	·			
									
S	AMPLE		 	0 -	DATE: _	1/6/01			
ODOR: D N	/ .		COLOR:	lear -	TURBIDIT	Y: ØN		☐ Moderate	
0 طر مرکز	ther $\underline{6a}$	MDUCTIVITY	. 1422	- AT	<u></u>	'□ S	IIGNT NADEDATI IS	□ Very 3. \ 13. \ 1	
PH:	10/2 O=	217mV	02 = 0	14 PYIL	CONDUCT	WITH SO	WITERATUR	RE: 13, 1	<u>°C</u>
COMMENT 3.				OOLALOTE		11117.00	11.0.10.01.	on X (t zelille.	
en ja i			T Z NOT A	-	 _				
FILTRA	VIE(0.	45 μm)	א וטא בל	APPLICABLE					
ODOR: D N			COLOR: _		COMMEN	NTS:			
	Other		·						
			`PRESERVA	TIVE CODES:					
BOTH	LES FII	LLED		3-HNO3 C		- NaOH E	- HCL F-		
Number	Size	Туре	Preservative '	Filtered	Number	Size	Туре	Preservative	Filtered
3	Youl	Blass	12	Y (b)					YN
				YN					YN
				YN					YN
									
				YN					YN
:HAIN-OF-CUS	STODY NUM	IBER: Enclus	m74308	Y N DATE SHIPP	ED T	3/01 -	METHOD	: Courier	YN



14 Heartland	Trail Ma	ndison, WI 537	17-8923 P. C	O. Box 8923 (Z	ip: 53708-89	23) (608		FAX: (608) 8	
PROJECT N	NAME THI	a. 1	PREPARED		CI	HECKED			ECT NO.
dis Dot	Negrion	by	By. PJT	Date.\\/	6/01 By	: L5B	Date: (1	127/01/107	420
	<u></u>		. 1		- 				<u> </u>
SAMPLE N	O.: NCI	MW-l	t WELL D	IAMETER:	Z 2" 0	4" □ Othe	er		
	,		□ Iron □ Ot	,					
	/ /		ww □ sw			Other _		· · · · · · · · · · · · · · · · · · ·	é
		· · · · · ·						- <u>- </u>	
F	URGIN	G	TIME:	B 1125	DEPTILTO	WATER: _	17,69.	0,00 T/	PVC
* X X X	UME: IN		3		DEPTH TO	BOTTOM:	23.6 +1	0,27 T/	pvc
	LUME REMO	······ -	literio	·	METHOD:	∏ Railer		Pump PM3	taltu
ODOR: I	None	1. 0 -			TURBIDIT	Y: ØÑ	one	☐ Moderate	
7	Other <u>654</u>	gollne-	eolor: No		<i></i>	☐ SI		□ Very	
DISPOSAL	METHOD:	Ground [DI WIOGE	um 🗆 Othe	r				
	<i>,</i>								
	SAMPL		TIME:	历 -	DATE: _	11/0/01			
	O/AIVII E		ी - ००१ ००: <i>(</i> १/	Dan -	Tuodinii				
ODOR: □, ≱ <u>d</u>	None Other	asoline	COLOR: (X	1	TURBIDIT	Y: ZN	one light	 □ Moderate □ Very 	
рн: <u>6,6</u>	25 co	NDUCTIVITY	1: 2.99 M	5/cm	umt	nos/cm TE	MPERATURE	13,6	•
COMMENT	rs: <u>ORP =</u>	133mV -	color: 0 2.99 m 02=0.466	ORRECTED	CONDUCT	IVITY: SC	÷ {1 + [0.0191	x (T - 25)]): _	ATZ-
,						 	· <u>·</u> ··································		
	ATE /A	/ E	TO NOT AF	PPLICABLE				· · · · · · · · · · · · · · · · · · ·	
FILIF	RATE (0.	45 μm)							
ODOR:	None Other		COLOR:		COMMEN	NTS:			
			_					·	
			*DDECEDVAT	NE CODEC.					
BOT	TLES FI	LLED	PRESERVATI A - None B		H₂SO4 [- NaOH E	- HCL F		
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered
<u>.</u> 3	Hone	Glass	6	Y (N)					YN
				YN					YN
				YN					YN
		ķ		YN					YN

DATE SHIPPED:

AIRBILL NUMBER: NA

CHAIN-OF-CUSTODY NUMBER 74308

Appendix D Laboratory Analytical Data Sheets and Chain-of-Custody Records



Madison Office & Laboratory
525 Science Drive

525 Science Drive Madison, WI 53711 608-232-3300 • Fax: 608-233-0502 888-5-ENCHEM

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

Volatile	Organic	Results
VUIALITE	Cluaine	Leanis

EPA 8260 VOLATILE LIST			Prep Method: S	W846 5030B	Prep D	ate: 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	< 2.8	2.8	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
, 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 B260B
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 8 260B
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



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

Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: Z-BEST MW-2

Lab Sample Number: 913952-007

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Submitter: RMT - MADISON

Report Date: 11/28/01

Collection Date: 11/6/01

Matrix Type: WATER

Chloromethane	< 2.2	2.2	7.0	ug/L	&	11/15/01	SW846 & 260B
cis-1,2-Dichloroethene	12	2.3	7.3	ug/L		11/15/01	SW846 & 260B
cis-1,3-Dichloropropene	< 2.7	2.7	8.6	ug/L		11/15/01	SW846 & 260B
Dibromomethane	< 3.0	3.0	9.6	ug/L		11/15/01	SW846 \$260B
Dichlorodifluoromethane	< 3.0	3.0	9.6	ug/L		11/15/01	SW846 \$260B
E t hylbenzene	580	2.5	8.0	ug/L		11/15/01	SW846 & 260B
Fluorotrichloromethane	< 2.3	2.3	7.3	ug/L		11/15/01	SW846 \$250B
Hexachlorobutadiene	< 2.4	2.4	7.6	u g/L		11/15/01	SW846 &260B
le opropylbenzene	47	1.9	6.1	ug/L		11/15/01	SW846 \$260B
Methylene chloride	< 1.9	1.9	6.1	u g/L		11/15/01	SW846 \$260B
n-Butylbenzene	26	1.9	6.1	u g/L		11/15/01	SW846 8:260B
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 \$260B
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 \$260B
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	⊔g/L_		11/15/01	SW846 8 260B
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	SW8468260B
Xylenes, m-, p-	1700	3.9	12	ug/L		11/15/01	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-3

Collection Date: 11/5/01

Lab Sample Number: 913952-001

Matrix Type: WATER

Lab Project Number: 913952

EPA 8260 VOLATILE LIST

Chloroethane

Chloroform

< 0.63

< 0.41

0.63

0.41

2.0

1.3

WI DNR LAB ID: 113172950

ug/L

ug/L

Prep Date: 11/16/01

Volatile Org	anic Results
Prep Method:	SW846 5030B

EFA 0200 VOLATILL LIST			rich memor.	11010 00000		210, 11,10,0	•			
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-Dichtoroethane	< 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 6260B		
1,2,3-Trichloropropane	< 0.71	0.71	2.3		na/r		11/16/01	SW846 8260B		
1,2,4-Trichlorobenzene	< 0.36	0.36	1. 1		ug/L		11/16/01	SW846 8 260B		
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/ 0 1	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-Chiorotoluene	< 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 8260E		
Benzene	< 0.44	0.44	1.4		ug/L		11/16/01	SW846 8260 B		
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260E		
Bromochloromethane	< 0.21	0.21	0.67		ug/L		11/16/01	SW846 8260E		
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260E		
Bromoform	< 0.58	0.58	1.8		ug/L		11/16/01	SW846 8260		
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260E		
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260		
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 826 0 1		
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260		

SW846 8260B

SW846 8260B

11/16/01

11/16/01



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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: Z-BEST MW-3

Lab Sample Number: 913952-001

Lab Project Number: 913952

Submitter: RMT-MADISON

Report Date : 11/28/01

Collection Date: 11/5/01

Matrix Type: WATER

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/16/01	SW846 8-260B
cis-1,2-Dichloroethene	2.5	0.46	1.5	ug/L		11/16/01	SW846 & 260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		11/16/01	SW846 \$260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		11/16/01	SW846 \$260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 8260B
E thylbenzene	< 0.50	0.50	1.6	ug/L		11/16/ 0 1	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/16/01	SW846 \$260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/16/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	u g/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/Ĺ		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 B260B
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 B260B
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/∟		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		11/16/0 1	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2 .5	ug/L		11/16/01	SW846 8260B

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Madison Office & Laboratory 525 Science Drive

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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-4

Collection Date: 11/5/01

Lab Sample Number: 913952-002

Matrix Type: WATER

Lab Project Number: 913952

Volatile	Organic	Results
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EPA 8260 VOLATILE LIST			Prep Method: S	W846 5030B	Prep D	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
, 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 82608
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		ugΛ		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 B 260B
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
Chiloroform			*		_			



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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: Z-BEST MW-4

Lab Sample Number: 913952-002

Lab Project Number: 913952

Submitter: RMT-MADISON

Report Date: 11/28/01

Collection Date: 11/5/01

Matrix Type: WATER

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
Ofbromomethane	< 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 82 60B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260 B
Fluorotrichloromethane	< 0.47	0.47	1.5	uy/L		11/16/01	SW846 8250B
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-Propylbenzere	< 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
Tetrachioroethere	54	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 B260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/16/01	SW846 8260B
Trichloroethene	4 7	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 82 60B
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



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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

Volatile Organic Results

EPA 8260 VOLATILE LIST Prep Method: SW846 5030B Prep Date: 11/16/01

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 B260B
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	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
r 2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/01	SW846 8260B
1,2-Dichloroberzene	< 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	SW8468260B
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 B260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		11/16/01	SW846 8260R
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 B260B
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 B260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 B260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 B260B
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 B260B
Chloroform	< 0.41	0.41	1.3		ug/L		11/16/01	SW846 8260B

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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: Z-BEST MW-5

Lab Sample Number: 913952-006

Lab Project Number: 913952

Submitter: RMT-MADISON

Report Date: 11/28/01

Collection Date: 11/6/01

Matrix Type: WATER

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-Rutylbenzene	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 8260R
p-isopropyltoluene	7.0	0.51	1.6	ug/L		11/16/01	SW846 8260B
s-Butylberzene	< 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 82008
Vinyl chloride	< 0.17	0.17	0.54	ug/L		11/16/01	SW846 82608
Xylene, o-	160	0.54	1.7	ug/L		11/16/01	SW846 82608
Xylenes, m-, p-	450	1.5	4.8	ug/L	D	11/16/01	SW846 8260B



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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: Z BEST PZ-1

Lab Sample Number: 913952-015

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

		V	olatile Orga	anic Results		-		
EPA 8260 VOLATILE LIST		i	Prep Method:	SW846 5030B	Prep [Date: 11/1 <i>2/</i> 0	1	
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 8260D
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./2	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
2-Dibromo-3-chloropropane	< 2.5	2.5	8.0		ug/L		11/16/01	SW845 8260B
1,2-Dibromoethane	< 0.98	0.98	3.1		ug/L		11/16/01	SW846 8260B
1.2-Dichlorobenzene	< 0.72	0.72	23		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	1.7	3.5		ug/L		11/16/01	SW846 8260B
Benzene	< 0.88	88.0	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
Bromodichlorometharie	< 0.82	0.82	2.6		ug/L		11/16/01	3W846 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 ug/L		11/16/01	
	U.UZ	0.02	2.0		ugrL		11/10/01	SW846 8260B



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Project Name: WDOT NORTHWOODS LAUNDRY

Field ID: Z-BEST PZ-1

Lab Sample Number: 913952-015

Project Number: 10742.01

Lab Project Number: 913952

Submitter: RMT-MADISON

Report Date: 11/28/01

Collection Date: 11/8/01

Matrix Type: WATER

Chloromethane	< 0.88	0.88	2.8	ug/L	&	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	10	0.92	2.9	u g/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
I sopropylbenzene	< 0.78	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	< 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 82608
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	u g/ L		11/16/01	SW846 8260B
Xylenes, m-, p-	< 1.5	1.5	4.8	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: NCI MW-4

Collection Date: 11/6/01

Lab Sample Number: 913952-016

Lab Project Number: 913952

Matrix Type: WATER

WI DNR LAB ID: 113172950

Volatile Organic Results

EPA 8260 VOLATILE LIST			Prep Method: S	W846 5030B	Prep D	ate: 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
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 8260 B
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 8260 B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260 B
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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EN CHEM INC. - Analytical Report -

Madison Office & Laboratory

525 Science Drive Madison, WI 53711

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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: NCI MW-4

Lab Sample Number: 913952-016

Lab Project Number: 913952

Submitter: RMT - MADISON

Report Date: 11/28/01

Collection Date: 11/6/01

Matrix Type: WATER

Chloromethane	< 0.44	0.44	1.4	ug/L	8.	11/16/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/16/01	SW846 B260B
cia-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 B260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/16/01	SW846 B200D
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-Isopropyitaluene	< 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	5W846 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

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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

Volatile	Organic	: Results
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EPA 8260 VOLATILE LIST			Prep Method: \$	SW846 5030B	Prep D	ate: 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
2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
. 2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 B260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 82608
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 B260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		11/15/01	SW846 B260B
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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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

Chloromethane	< 0.44	0.44	1,4	ug/L	&	11/15/01	SW846 8-260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		11/15/01	SW846 & 260B
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 8-260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8-260B
Ethylbenzene	2.7	0.50	1.6	ug/L		11/15/01	SW846 8-260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW846 5260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	1.7	0.39	1.2	υ σ/ L		11/15/01	SW846 8:260B
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	u g/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	u g/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 82608
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		11/15/01	SW646 B260B
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
Xytene, 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

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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

EPA 8260 VOLATILE LIST				SW846 5030B	Prep D	ate: 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
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/∟		11/15/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		u g/ 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	SW646 8260B
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888-5-ENCHEM

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

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 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-Propytbenzene	< 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

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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: NCI MW-10

Lab Sample Number: 913952-004

Lab Project Number: 913952

EPA 8260 VOLATILE LIST

Submitter: RMT - MADISON

Report Date: 11/28/01

Collection Date: 11/6/01

Matrix Type: WATER

WI DNR LAB ID: 113172950

Prep Date: 11/15/01

Volatile Organic Results Prep Method: SW846 5030B

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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 B260B	
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 82608	
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 B260B	
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	
?-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B	
r,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 82608	
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-Chiorotoluene	< 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 B260B	
Bromoform	< 0.58	0.58	1.8		ug/L		11/15/01	SW846 B260B	
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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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

Chloromethane	< 0.44	0.44	1.4	ug/L	8.	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	S 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	SW046 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
Isopropylbenzene	3 4	0.39	1.2	u g/ 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-Propyibenzene	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



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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: S	Prep Method: SW846 5030B		ate: 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-Trichtoroethane	< 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	SW8468260B
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-Dichtoroethene	< 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	< 0.67	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
'2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
, 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-Dichtoroethane	< 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 B260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		11/15/01	SW846 8260B
1,3-Dichloroberzene	< 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 B260B
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
8romochloromethane	< 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	SW840 8260B
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Project Name: WDOT NOR IHWOODS LAUNDRY

Project Number: 10742.01

Field ID: NCI MW-11

Lab Sample Number: 913952-005

Lab Project Number: 913952

Submitter: RMT - MADISON

Report Date: 11/28/01

Collection Date: 11/6/01

Matrix Type: WATER

Chloromethane	< 0.44	0.44	1.4	ug/L	&	11/15/01	SW846 B260B
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 B260B
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
l s opropyibenzene	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	O	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	SW 846 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-	9.4	0.77	2.5	ug/L		11/15/01	SW846 8260B

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- Analytical Report -

Madison Office & Laboratory

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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

EPA 0200 VOLATILE E131					1,0p = 0.01			
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
g-Dibromo-3-chloropropane	< 1.2	1.2	3.8		u g/ 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	< D.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
Bromodichlorometharie	< 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	SW 846 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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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: 913962-009

Matrix Type: WATER

Lab Project Number: 913952

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 B260B
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 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
H exachlorobutadiene	< 0.49	0.49	1.6	ug/L		11/15/01	SW846 8260B
l-sopropylbenzene	< 0.39	0.39	1.2	ug/L		11/15/01	SW040 8200B
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-Dichloroetherie	< 0.64	0.64	2.0	ug/L		11/1 5/ 01	5W846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		11/15/01	SW846 8260B
Trichlorocthene	< 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, n-	< 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

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- Analytical Report -

Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: TW-2

Lab Sample Number: 913952-010

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

EFA 0200 VOLATICE CIOT		•	170p Incurou. 3110-0 3030B		Piep 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 B260B
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 B260B
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
্ই-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		11/15/01	SW846 8260B
-,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/15/01	SW846 B260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		11/15/01	SW846 B260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		11/15/01	SW846 B260B
1,2-Dichleropropane	< 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/D1	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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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: TW-2

Lab Sample Number: 913952-010

Lab Project Number: 913952

Submitter: RMT-MADISON

Report Date: 11/28/01

Collection Date: 11/7/01

Matrix Type: WATER

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
Dichlorodiffuoromethane	< 0.61	0.61	1.9	ug/L		11/15/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	u g/ L		11/15/01	SW846 B260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		11/15/01	SW646 B260B
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 B260B
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 82608
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



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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

Volatile Orga	nic Results
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			Tolding Orga					
EPA 8260 VOLATILE LIST			Prep Method: S	W846 5030B	Prep D	ate: 11/15/01		
Analyte	Result	LOD	LOQ	EQL	Units	Units Code		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
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 B260B
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-Dichloroberzene	< 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 B260B
1,4-Dichlorobenzerie	< 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
Berizene	< 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 8260E
Chloroform	< 0.41	0.41	1.3		ug/L		11/15/01	SW846 8260E

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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

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-Dichloroproperie	< 0.54	0.54	1.1	ug/L	11/15/01	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	11/15/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.01	1,9	ug/L	11/15/01	SW846 0260B
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-Bulylbenzene	< 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	< D.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 8250E
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
Xvlenes, m-, p-	< 0.77	0.77	2.5	ug/L	11/15/01	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: TW-4

Collection Date: 11/7/01

Lab Sample Number: 913952-012

Matrix Type: WATER

Lab Project Number: 913952

Volatile Organic Results	Volatile	Organic	Results
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EPA 8260 VOLATILE LIST			Prep Method: S	W846 5030B	Pren D	Prep Date: 11/16/01			
4	Bosult.	Lon	•		•		Analysis	Analysis	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Date	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-Trichtoroetharre	< 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	3W846 \$260B	
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	D.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	
r,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		11/16/0 1	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-Chlorotoluerie	< 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

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///01

Matrix Type: WATER

Chloromethane	< 0.44	0.44	1.4	ug/L	ě.	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	SW848 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	٠,	11/16/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		11/16/01	SW846 8260B
p-isopropyitoluene	< 0.51	U.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	3W846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		11/16/01	SW846 8260B
Tetrachlomethene	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	< 0.4 9	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
Xytenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 8260B

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- 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

Volatile	Organic	Results
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			Volatile Olga	inc iteauita				
EPA 8260 VOLATILE LIST			Prep Method: S	W846 5030B	Prep D	ate: 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/ 0 1	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. 3 6	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 B260B
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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

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
Laopropylbenzene	< 0.39	0.39	1.2	ug/L		11/16/01	SW846 6260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		11/16/01	SW846 8260B
n-Butylhenzene	< 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	D.40	1.3	ug/L		11/16/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	D.64	2.0	ug/L		11/16/03	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
Vinyt 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



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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: TW-6

Lab Sample Number: 913952-013

Lab Project Number: 913952

Chloroform

< 0.41

0.41

1.3

Submitter: RMT-MADISON

Report Date: 11/28/01

Collection Date: 11/8/01

Matrix Type: WATER

WI DNR LAB ID: 113172950

ug/L

	· · · · · · · · · · · · · · · · · · ·	v	olatile Orga	nic Results				
EPA 8260 VOLATILE LIST			Prep Method: SW846 5030B		Prep 🛭	ate: 11/12/01		
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachioroethane	< 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 8200B
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	< p.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 8260E
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 8260E
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 8260E
Bromomethane	< 0.94	0.94	3.0		ug/L		11/16/01	SW846 8260E
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		11/16/01	SW846 8260E
Chlorobenzene	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260E
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		11/16/01	SW846 8260E
Chloroethane	< 0.63	0.63	2.0		ug/L		11/16/01	SW846 8260E

SW846 8260B

11/16/01

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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

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 83260B
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
Isopropylhenzene	< 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 8260B
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 8260B
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 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	8.7	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

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- 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: S	W846 5030B	Prep D	ate: 11/12/0	1	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Metho d
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-Dichtoroethane	< 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
2-Dibromo-3-chloropropane	< 2.5	2.5	8.0		ug/L		11/16/01	SW846 8260B
, 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 B260B
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 826 0B
1,4-Dichlorobenzene	< 0.86	0.86	2.7		ug/L		11/16/01	SW846 B260B
2.2-Dichloropropane	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 B260B
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 B260B
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 B260B
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	< 0.85	0.86	2.7		ug/L		11/16/01	SW846 82608
Chloroethane	< 1.3	1.3	4.1		ug/L		11/16/01	SW846 B260B
Chloroform	< 0.82	0.82	2.6		ug/L		11/16/01	SW846 8260B
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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

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
cls-1,3-Dichloropropene	S 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 6260B
Ethylbenzene	150	1.0	3.2	ug/L	11/16/01	SW846 8260B
Fluorotrichloromethane	< 0.94	0.94	3.0	∪g/ L	11/16/01	SW846 B 260B
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	< p.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	11/15/01	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 82G0D
Toluene	170	0.80	2.5	ug/L	11/16/01	SW846 82608
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	89.0	3.1	ug/L	11/16/01	SW846 8260B
Vinyl chlonde	< 0.34	0.34	1.1	ug/L	11/16/01	SW846 82608
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 82608



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Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: TRIP BLANK

Lab Sample Number: 913952-018

Lab Project Number: 913952

Submitter: RMT - MADISON

Report Date: 11/28/01

Collection Date: 11/5/01

Matrix Type: BLANK

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-Dichloroberzene	< 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-Dichloroberzene	< 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-Chiorotoluene	< 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 -

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888-5-ENCHEM

Project Name: WDOT NORTHWOODS LAUNDRY

Project Number: 10742.01

Field ID: TRIP BLANK

Lab Sample Number: 913952-018

Lab Project Number: 913952

Submitter: RMT-MADISON

Report Date: 11/28/01

Collection Date: 11/5/01

Matrix Type: BLANK

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	•		11/16/01	SW846 8260B
Dichlorodifluoromethane		0.61	1.9	ug/L			
	< 0.61			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
is opropylbenzene	< 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-isopropyitoluene	< 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
Styrenc	< 0.37	0.37	1.2	ug/L		11/16/01	SW840 8280B
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 82608
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		11/16/01	SW846 8260B

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В	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.
к	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank
М	Methanol leakage.
N	Spiked sample recovery not within control limits.
ND	Not Detected.
NR	Not Required.
Р	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.
•	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOD). The
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. 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
Q S	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. 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.
Q S U#	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. 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. Elevated LOD due to matrix interference.
Q S U# V	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. 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. Elevated LOD due to matrix interference. Heavy hydrocarbon present.
Q S U# V W	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. 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. Elevated LOD due to matrix interference. Heavy hydrocarbon present. Sample received with headspace.
Q S U# V W	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. 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. Elevated LOD due to matrix interference. Heavy hydrocarbon present. Sample received with headspace. See Sample Narrative
Q S U# V W X Z	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. 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. Elevated LOD due to matrix interference. Heavy hydrocarbon present. Sample received with headspace. 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.

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