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2000 ANNUAL MONITORING REPORT

WAUSAU WATER SUPPLY NPL SITE
WAUSAU, WISCONSIN

PRINTED ON
MAR 13 2001



CONESTOGA-ROVERS
& ASSOCIATES

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March 13, 2001

Reference No. 3978

Mr. Jeff Gore
UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY
77 West Jackson
Chicago, Illinois 60604

Ms. Wendy Anderson
WISCONSIN DEPARTMENT OF
NATURAL RESOURCES
1300 W. Clairemont, Box 4001
Eau Claire, Wisconsin 54702

Dear Mr. Gore and Ms. Anderson:

Re: 2000 Annual Monitoring Report
Wausau Water Supply NPL Site

On behalf of the Wausau Water Supply PRP Group, CRA is submitting this 2000 Annual Monitoring Report (Report) for the Wausau Water Supply NPL Site. This Report has been prepared as described in the Groundwater Monitoring Plan.

Please call me at 651-639-0913 if you have any questions or comments.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Jason Twaddle, PE

JT/ma/13
Enc.

c.c.: Dave Erickson; City of Wausau (w/Enc.)
Jim Cherwinka; Wausau Chemical (w/Enc.)
Wally Mattson; Marathon Electric (w/Enc.)
Brian Boevers; CRA (w/o Enc.)
Chuck Ahrens; CRA (w/o Enc.)

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2000 ANNUAL MONITORING REPORT

**WAUSAU WATER SUPPLY NPL SITE
WAUSAU, WISCONSIN**

Prepared By:

MARCH 2001

REF. NO. 3978 (19)

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this 2000 Annual Monitoring Report (Report) for the Wausau Water Supply NPL Site (Site) in Wausau, Wisconsin, on behalf of the Wausau Potential Responsible Party (PRP) Group. This Report presents the results of groundwater and extraction well monitoring at the Site during 2000. This Report also presents operational data for the remediation systems.

1.1 HISTORY

The Wausau PRP Group initiated remedial action at the Site in the early 1990s in accordance with the September 29, 1990, Record of Decision (ROD) and the Consent Decree (CD) entered with the court on January 24, 1991. The final remedial action at the Site consisted of two soil vapor extraction (SVE) systems to address the source areas and groundwater extraction and treatment utilizing existing municipal supply wells and an extraction well. Figure 1.1 provides the Site location and Figure 1.2 provides a Site plan.

Source area remediation was accomplished by the installation of SVE Systems at Marathon Electric (West Bank) and Wausau Chemical (East Bank) in January 1994. The SVE system at Marathon Electric operated until April 1996, when the West Bank source remediation was approved as complete. The East Bank SVE system was modified in 1996 and continued to operate. Final closure of the East Bank SVE system has not been achieved. Off-gas treatment was provided by vapor phase carbon.

Groundwater remediation is provided through two existing municipal supply wells (CW3 and CW6) and one extraction well installed at Marathon Electric (EW1). Water from the municipal supply wells is treated by air strippers at the Wausau water treatment plant. Water from EW1 is also treated by air stripping (over rip rap on the river bank) before being discharged to the Wisconsin River.

The pumping rates for the three extraction wells were originally defined in the CD. In the Groundwater Flow Model report (CRA, May 1993), CRA established a range of pumping rates that would maintain capture of the groundwater plume. Then, in an August 4, 1995, letter, the United States Environmental Protection Agency (USEPA) approved the optimum pumping configuration range from that report for the three extraction wells. Those pumping rates are:

- CW3: 65 hours per week at 1,200 gallons per minute (gpm) to 100 hours per week at 1,100 gpm.
- CW6: 85 hours to 100 hours per week at 1,400 gpm.
- EW1: 800 to 900 gpm continuously.

Additional groundwater remediation was provided by an extraction system operated by Wausau Chemical between 1985 and 1996 as an interim remediation measure. The extraction system at Wausau Chemical consisted of a series of shallow wells at the south end of the Wausau Chemical property. Groundwater was treated by air stripping. This system was not part of the ROD or the CD and ceased operation in 1996.

Historically, groundwater monitoring was conducted according to the Monitoring Program Plan (CRA, 1994). The Monitoring Program Plan consisted of a complex system of monthly, quarterly, semiannual, and annual monitoring. In June 2000, the Groundwater Monitoring Plan replaced the Monitoring Program Plan as the approved groundwater monitoring program. The Groundwater Monitoring Plan consists of annual monitoring well sampling and quarterly sampling of EW1.

The Monitoring Program Plan required the submission of Monthly Progress Reports. The last monthly report was submitted in July 2000. The Groundwater Monitoring Plan requires an annual report on the activities occurring the previous calendar year. This Report fulfills that requirement.

1.2 BACKGROUND

Groundwater monitoring at this Site is a combination of hydraulic and water quality monitoring designed to verify that the groundwater extraction wells are containing the contaminant plume and that groundwater quality is improving because of source remediation and VOC removal from the aquifer.

Groundwater remediation at a site like Wausau is a long-term process that cannot be readily measured on a short-term basis using water quality data alone. Because of the time necessary to achieve groundwater remediation, containment of contaminated groundwater is the primary measurable and achievable short-term objective.

Actual remediation of the groundwater is a slower process that is more difficult to measure using field data on a short-term basis. Accordingly, water quality data is measured periodically on a long-term basis to show the downward trend of VOC

concentrations in groundwater. Significant VOC reductions are measured over a period of years.

For the purpose of evaluation, groundwater monitoring at Wausau has been divided into two areas, the East Bank and the West Bank of the Wisconsin River, corresponding to the two original source areas. The river forms a natural hydraulic division of the Site. There are three active groundwater extraction wells designed to contain and remove VOC contaminated groundwater. Two of the extraction wells are on the west bank, CW6 and EW1, and one is on the east bank, CW3 (Figure 1.2):

1.3 SITE GEOLOGY

The Site is underlain by glacial outwash and alluvial sediments which have filled in the preglacial stream valley in which the Wisconsin River now follows. This alluvial aquifer ranges from 0 to 160 feet thick and has an irregular base and lateral boundaries. The boundaries of the aquifer are defined by the relatively impermeable bedrock which underlie it and form its lateral boundaries within a preglacial valley. Six production wells in the Site area provide drinking water for the City of Wausau. These wells are screened in the glacial outwash and alluvial sand and gravel deposits which underlie and are adjacent to the Wisconsin River.

1.4 GROUNDWATER CLEANUP STANDARDS

The Groundwater Monitoring Plan was developed to monitor compliance with cleanup standards for the groundwater at the Site. The groundwater cleanup standards for the Site are the USEPA maximum drinking water contaminant levels (MCLs). The MCLs for the primary VOC contaminants of concern at the Site are:

- Trichloroethylene (TCE) 5 µg/L
- Tetrachloroethylene (PCE) 5 µg/L
- cis-1,2-Dichloroethylene (DCE) 70 µg/L

2.0 2000 MONITORING RESULTS

Groundwater monitoring was conducted on three occasions during the 2000 calendar year. The first two quarterly rounds were conducted in January and May in accordance with the Monitoring Program Plan. The third round was conducted in October in accordance with the Groundwater Monitoring Plan, which was approved in June 2000. Comprehensive water level rounds were conducted in May and October.

2.1 WATER LEVEL MONITORING

Table 2.1 presents the groundwater elevation data collected during the three monitoring events in 2000. Water table contours based on the October 2000 measurements are presented on Figure 2.1. In general, the water table east of the river was slightly higher than in 1999 and the water table on the west bank was lower than in 1999. However, the groundwater flow patterns are essentially unchanged on both sides of the river.

Figure 2.1 illustrates groundwater flow within the unconfined glacial aquifer. The flow patterns are controlled by the operation of EW1 and the City production wells. Under natural conditions, groundwater would flow toward and discharge to the Wisconsin River and its tributary, Bos Creek. Under existing conditions however, groundwater flows toward EW1 and the production wells. The operation of EW1 has created groundwater flow divides between the west and east City well fields and has isolated the former landfill source of contaminated groundwater from the production wells.

2.2 GROUNDWATER SAMPLING

The quarterly groundwater sampling rounds conducted in January and May consisted of a core group of wells which were sampled for a Site specific list of VOCs according to the Monitoring Program Plan. Table 2.2 presents the quarterly list of wells, the list of analytes, and the laboratory methods.

Annual groundwater sampling in October was conducted according to the Groundwater Monitoring Plan. Monitoring well samples were analyzed for the Site specific VOC list presented in Table 2.3. In addition, two well samples (C4S and W53A) were analyzed for bis(2-ethylhexyl)phthalate as required.

WC2, which was scheduled for sampling in both the quarterly sampling rounds and the annual sampling round, was not sampled. This well had been damaged during

construction activities in 1999 such that it could not be accessed. It was not repairable, therefore, it was abandoned in October (see Section 3.4).

Groundwater sampling was conducted according to the Quality Assurance Project Plan (QAPP), February 1994, as amended by a June 11, 1999, letter to the USEPA. All samples were analyzed by Severn Trent Laboratories (STL) in North Canton, Ohio. Laboratory reports are provided in Appendix A.

2.3 EXTRACTION WELL EW1 SAMPLING

The monitoring program for EW1 was designed to measure long term water quality improvement in the groundwater and to measure the treatment of the groundwater extracted by EW1. This data is also used to measure the contaminant levels discharged to the Wisconsin River from the EW1 treatment system. The discharge should meet the substance of the requirements of the Wisconsin Pollutant Discharge Elimination System (WPDES).

Influent and effluent samples were collected from EW1 monthly from January through June 2000 according to the Monitoring Program Plan. Influent and Effluent samples were collected from EW1 quarterly in late June and October according to the Groundwater Monitoring Plan. The influent samples were analyzed for the Site specific VOCs (Table 2.3). The monthly effluent samples were analyzed for the Site specific VOCs and metals, and the quarterly effluent samples were only analyzed for the Site specific VOCs.

The laboratory reports for the EW1 influent and effluent samples are provided in Appendix B.

3.0 OPERATION AND MAINTENANCE

Operation and maintenance activities reported in this section cover EW1 and the city supply wells, the East Bank SVE system, and the monitoring wells.

3.1 EXTRACTION WELL (EW1)

The extraction well on the West Bank at Marathon Electric ran continuously in 2000 without incident. A total of 410,594,000 gallons of water were extracted and treated during the year. The extraction well pumped at an average flow rate of 771 gallons per minute over the year. Table 3.1 summarizes the number of gallons pumped and flow rates during 2000.

EW1 required no major repairs or maintenance in 2000. However production decreased later in the year. Marathon Electric is planning on cleaning EW1's well screen in late winter or early spring of 2001 in an attempt to boost production. EW1 will be shut off for one to two weeks while it is being cleaned.

3.2 CITY SUPPLY WELLS

The City of Wausau supply wells also operated as expected without incident in 2000. The number of hours and the number of gallons pumped for each well is presented in Table 3.2. While only CW3 and CW6 are part of the remediation system, data for all five City wells is presented on the table, as has been done historically in the monthly reports.

3.3 EAST BANK SVE SYSTEM

The East Bank SVE system (at Wausau Chemical) operated continuously in 2000, except during system sampling. The airflow rate consistently averaged approximately 260 cfm over the entire year. The SVE system required no major maintenance.

The SVE system monitoring was conducted in accordance with the Monitoring Program Plan. Monitoring consisted of quarterly soil gas sampling in January, April, July, and October, and monthly HNu screening by US Filter/Enviroscan of Rothschild, Wisconsin. A summary of all of the soil gas data for the East Bank SVE system is in Appendix C.

As agreed to by the USEPA and the WDNR, the East Bank SVE system was shut off on January 10, 2001, because of inefficient removal rates during the winter. The SVE system will remain off until the spring of 2001.

3.4 MONITORING WELL MAINTENANCE

A few monitoring wells at the Site were maintained and repaired in October and November 2000. The locks on all of the wells were lubricated or replaced as necessary. The following wells were repaired as indicated:

- WC4 Safety flag installed (to make it more visible to snow plows)
- WC4A Locking loop installed (to facilitate locking)
- E21 new locking cap installed
- Wilson Hurd 12-inch extension welded onto the outer casing and a new locking cap installed

Also, the bladder pumps were removed from the twelve wells they were installed in because they were not operating efficiently. CRA is evaluating the feasibility of repairing them. If it is feasible to repair them, they will be reinstalled in 2001.

Additional maintenance will be completed in 2001 including replacing concrete around the outer casing of a few wells, replacing some flush mounts, and painting and relabeling all of the monitoring wells.

The Groundwater Monitoring Plan recommended twelve wells for abandonment, because they were no longer part of the monitoring program. Eight of these were abandoned on October 24 and 25, 2000. Abandonment of two island wells (IWS and IWM) was postponed until they could be more easily accessed. FVD7 could not be located and therefore was not abandoned. The Wergin well was not abandoned because it has a pump and pitless adapter installed in it. We determined that the Wergin well is not a monitoring well (it has not been part of the historical monitoring program) and that the PRP group is not responsible for it as either the well owner or property owner.

Four additional wells not listed for abandonment in the Groundwater Monitoring Plan were also abandoned on October 24 and 25. WC3A and WC3C were abandoned because they are not part of the historical monitoring program or the current monitoring program. Two wells that were listed as part of the current monitoring program in the Groundwater Monitoring Plan were also abandoned. These two wells, WC2 and W51A, were scheduled for repair. When the repair was attempted, we discovered that the

casings were actually broken off, with the part of the casing above ground disconnected from the main part of the well. Construction equipment probably damaged WC2 during construction activity in the fall of 1999. W51A has been listed as obstructed since 1996.

The twelve wells that were abandoned are listed below. The wells were abandoned by Boart Longyear Company of Schofield, Wisconsin. Abandonment logs are included in Appendix D.

East Bank

WC3A
WC3C
WC7A
E21A
WC2

West Bank

R1S
MW3B
MW4C
GM1S
GM4S
W56A
W51A

4.0 EVALUATION OF GROUNDWATER DATA

The objectives of groundwater monitoring at the Wausau Site are to monitor the containment of the contaminant plume and the long term improvement in groundwater quality.

Table 4.1 presents the laboratory results for monitoring well samples collected during 2000. The data indicate that, in general, the plume size continues to decrease. Total chlorinated VOC data, included in Table 4.1 and presented on Figure 4.1, illustrates the plume configuration based on the October 2000 data.

4.1 WEST BANK

The primary VOC found on the west bank is trichloroethene (TCE). The degradation product cis-1,2-dichloroethene (C12DCE) was detected at a few locations with relatively low concentrations. Vinyl chloride was not detected on the west bank.

The continued increase in the TCE concentration at R3D may be due to a slug of contaminants slowly moving towards extraction well EW1. As shown on Figure 2.1, R3D is near the flow divide between the capture zones of EW1 and CW6; therefore, groundwater flow would be relatively slow in this region.

West bank monitoring wells with lower total CVOC concentrations, compared to 1999 concentrations, include C4S, W55, R2D, CW6, and EW1.

The semi-volatile bis(2-ethylhexyl)phthalate was only detected at W53A, with a concentration of 12 µg/L. It was not detected at C4S, the only other well analyzed for bis(2-ethylhexyl)phthalate.

4.2 EAST BANK

Tetrachloroethene and degradation products, TCE, C12DCE, and vinyl chloride are the primary contaminants on the east bank, with C12DCE generally at higher concentrations. The substantial presence of C12DCE and vinyl chloride indicate that natural attenuation of the plume is occurring on the east bank.

The plume size on the east bank did not change significantly with the important exception of the "not detected" result at monitoring well IWD. This suggests that the

VOC plume, which was previously joined beneath the river, is now two isolated plumes on the east and west banks.

The concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) at monitoring well FVD5 were lower than the previous three years. BTEX were not detected in any other monitoring wells.

4.3 EW1

The influent and effluent laboratory results for EW1 are presented in Table 4.2. TCE was the primary VOC. C12DCE and chloroform were detected in samples from each sampling event, but their concentrations were generally less than 1 µg/L. The effluent concentrations indicate that the EW1 treatment system removes approximately 50% of the VOCs in the extracted groundwater.

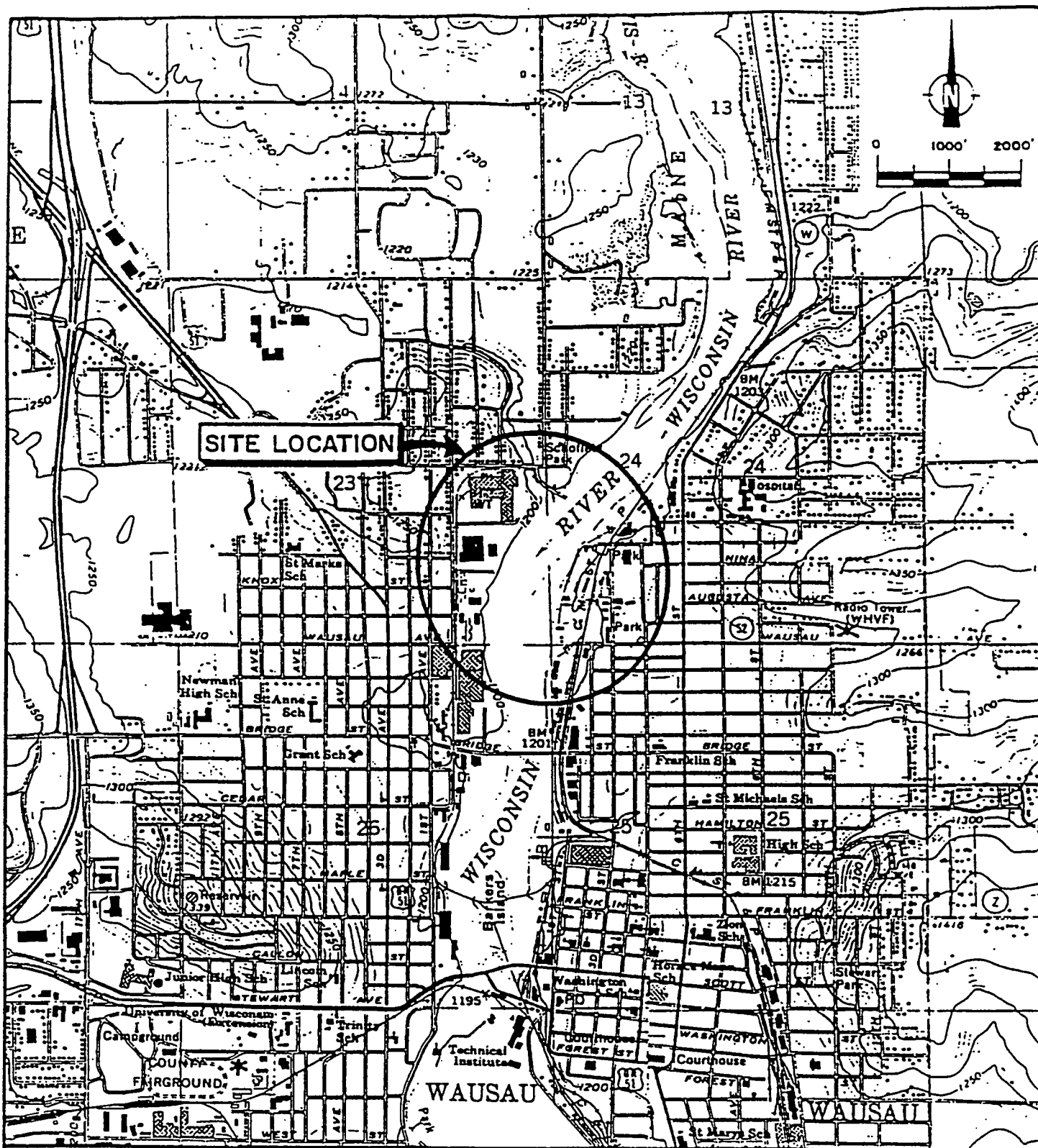
The results of the effluent samples were compared to surface water discharge limits for discharge to the Wisconsin River as calculated by the WDNR before EW1 was constructed. Those discharge limits were presented in the Remedial Action Plan, Groundwater Extraction, Treatment, and Discharge System, Marathon Electric Manufacturing Co., Wausau, Wisconsin. None of the discharge limits were exceeded during 2000.

4.4 HYDRAULIC CAPTURE

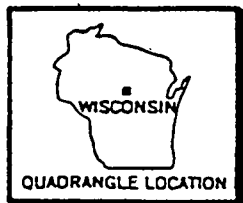
Horizontal and vertical capture of the contaminant plume is demonstrated on Figure 2.1. The water table contours indicate that groundwater flow in the contaminated portions of the Site is toward the three extraction wells - CW3, CW6, and EW1. At nested well locations, the water table elevations for shallow and deep wells are similar, indicating horizontal flow and hydraulic containment of the shallow and deeper portions of the aquifer.

5.0 CONCLUSIONS AND RECOMMENDATIONS

- The City pumping wells and EW1 operated without incident throughout 2000.
- The EW1 treatment system removed approximately 50% of the VOCs from the extracted groundwater. The effluent concentrations from the treatment system were well below the discharge limits.
- The contaminant plume continued to shrink. The most dramatic evidence of the shrinking plume was that there were no VOCs detected at the island well (IWD), suggesting that there are now two distinct plumes, one on each side of the river.
- Monitoring in 2001 should continue as described in the Groundwater Monitoring Plan. Two modifications to the monitoring plan are that WC2 and W51A will not be monitored in the future because they were abandoned due to damage that caused them to be unusable. WC2 was scheduled for water level measurements and sampling and W51A was scheduled for water level measurements.
- The East Bank SVE system ran without incident in 2000 and was shut off for the winter season on January 10, 2001.



SOURCE: U.S.G.S. WAUSAU WEST QUADRANGLE MAP.

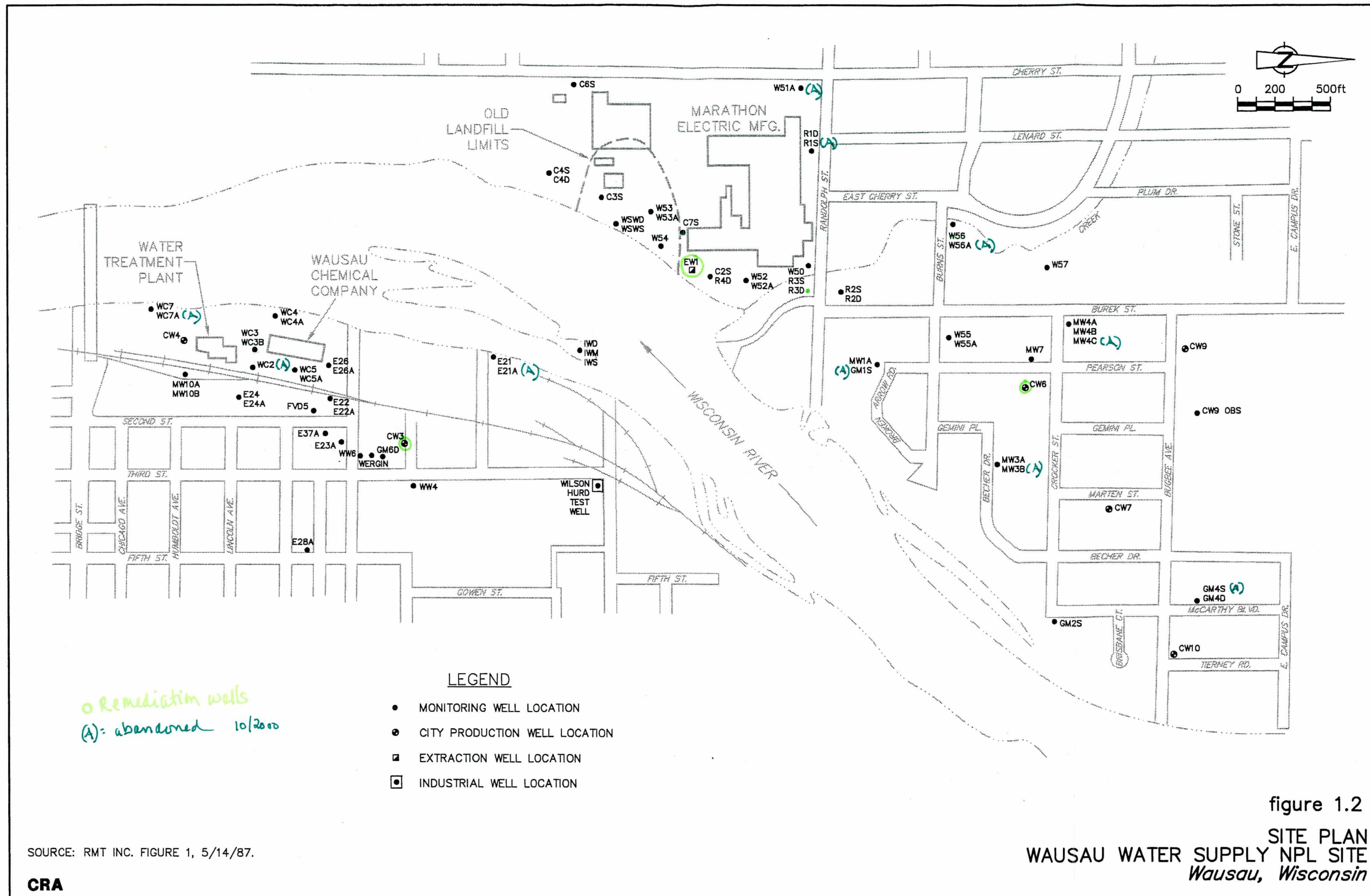


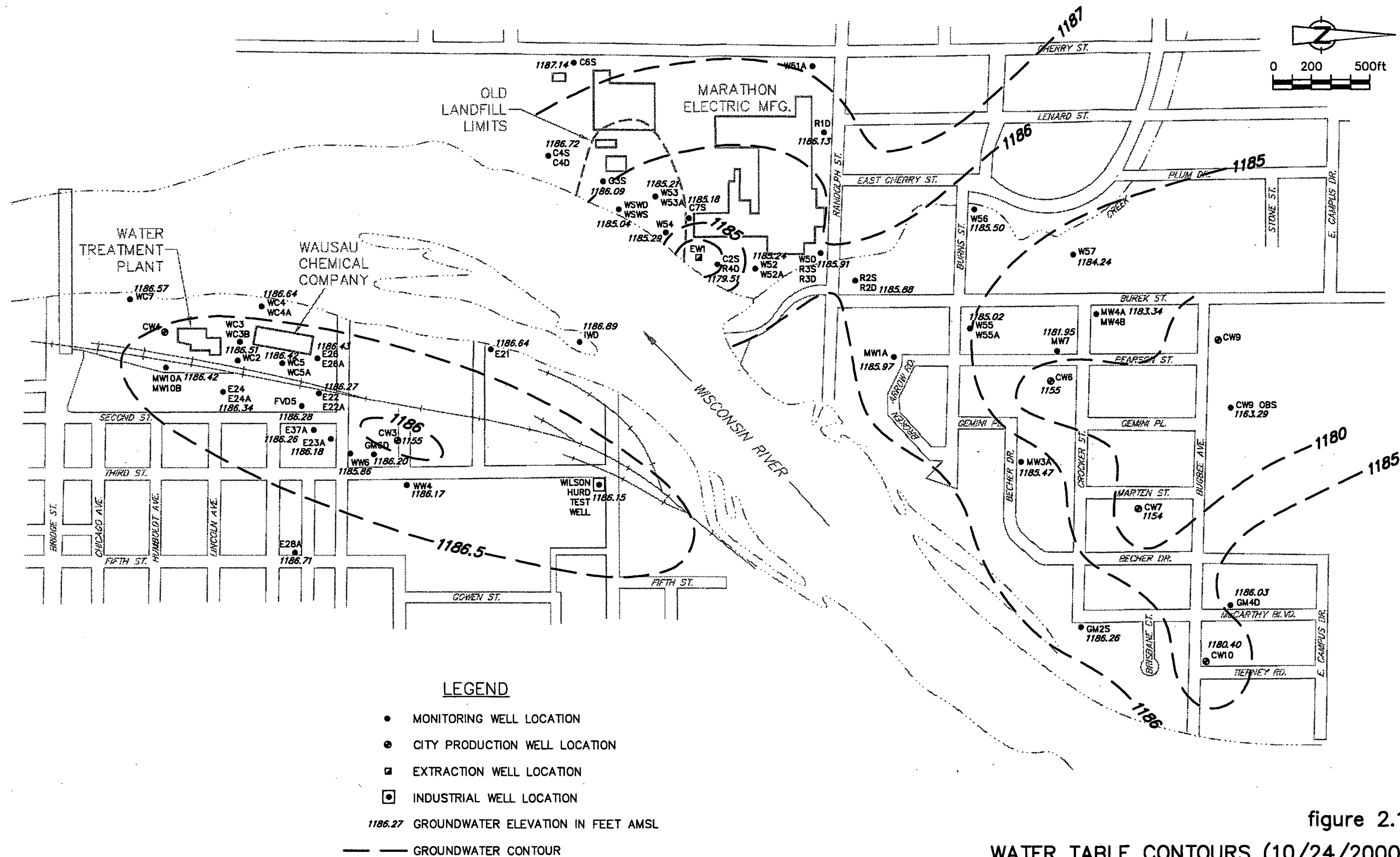
QUADRANGLE LOCATION

CRA

figure 1.1
SITE LOCATION

Wausau Water Supply NPL Site



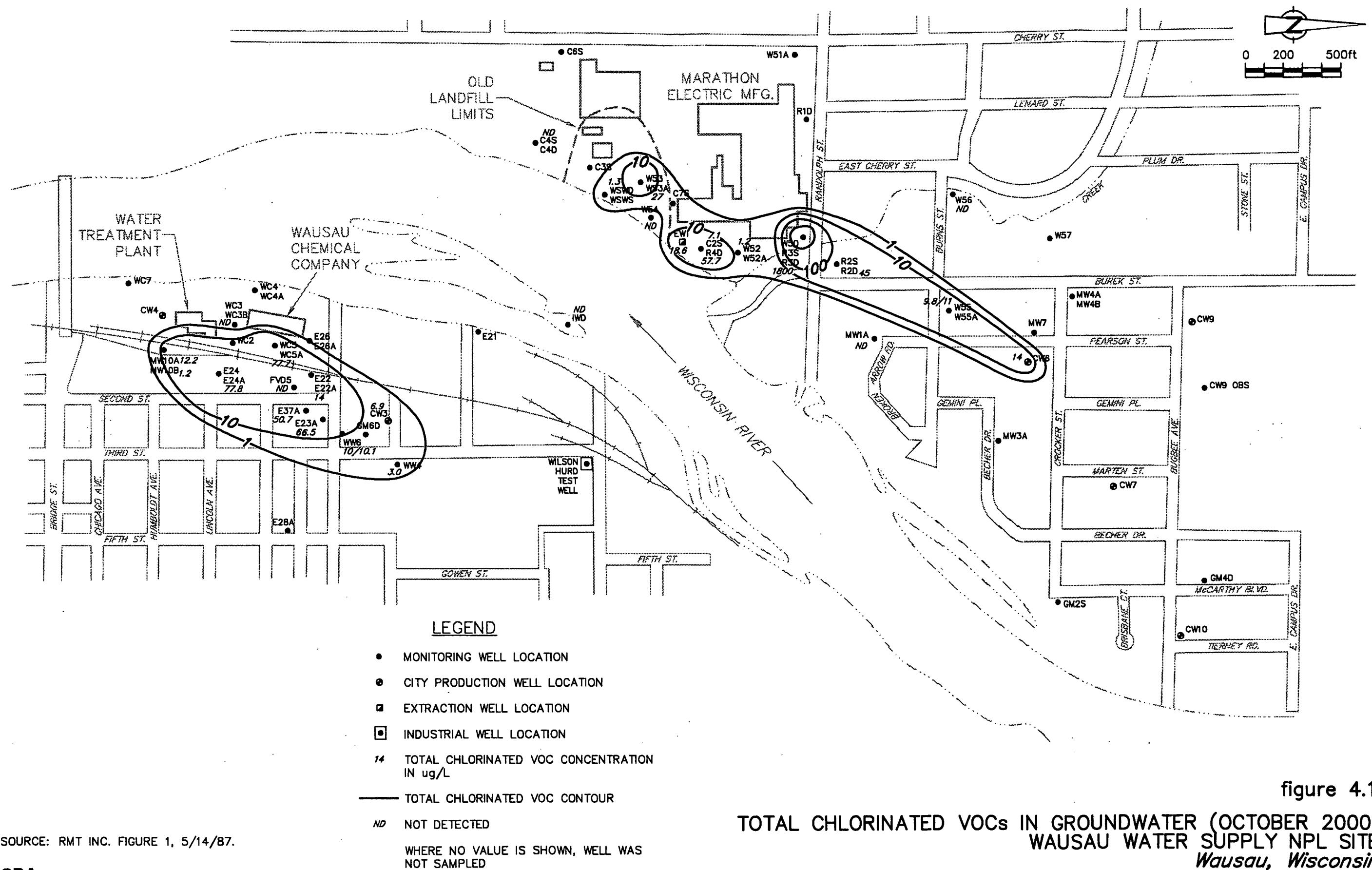


SOURCE: RMT INC. FIGURE 1, 5/14/87.

CRA

03978-00(019)GN-SP001 FEB 05/2001

figure 2.1
 WATER TABLE CONTOURS (10/24/2000)
 WAUSAU WATER SUPPLY NPL SITE
 Wausau, Wisconsin



SOURCE: RMT INC. FIGURE 1, 5/14/87.

CRA

03978-00(019)GN-SP002 FEB 05/2001

TABLE 2.1

**GROUNDWATER ELEVATIONS - 2000
WAUSAU WATER SUPPLY NPL SITE**

<i>Location</i>	<i>Top of Casing Elevation (ft. asl)</i>	<i>01/18/00 Quarterly</i>	<i>05/04/00 Comprehensive</i>	<i>10/24/00 Comprehensive</i>
<u>East Bank</u>				
CW3	1202.33		1154.33	1154.33
E21	1197.66	1185.72	1186.55	1186.64
E21A	1198		1186.53	Abandoned
E22	1195.57		1186.26	1186.29
E22A	1195.98		1186.26	1186.27
E23A	1197.72	1185.22	1186.17	1186.18
E24	1210.11		1186.12	1186.34
E24A	1211.17		1186.08	1186.29
E26	1199.11		1186.39	1186.43
E26A	1199.22		1186.39	1186.41
E28A	1211.73		1185.96	1186.71
E37A	1197.92		1186.18	1186.26
FVD5	1198.94		1186.17	1186.28
GM6D	1198.7		1186.24	1186.20
IWD	1192.1	NA	1186.49	1186.89
IWM	1192.66		1186.49	NM
IWS	1192.99		1187.78	NM
MW10A	1210.77		1186.12	1186.42
MW10B	1210.48		1186.09	1186.40
River Level**				1188.28
W. HURD	1199.78		1186.52	1186.15
WC2	1198.28	Damaged*	Damaged*	Abandoned*
WC3	1198.36		1186.38	1186.51
WC3B	1198.15		1186.38	1186.54
WC3C	1198.64		1186.18	Abandoned
WC4	1196.82	1185.78	1186.47	1186.64
WC4A	1196.65		1186.46	1186.64
WC5	1196.73		1186.34	1186.42
WC5A	1196.75		1186.33	1186.41
WC7	1197.02		1186.27	1186.57
WC7A	1196.85		1186.28	Abandoned
WW4	1202.38		1186.20	1186.17
WW6	1200.64		1185.86	1185.86

TABLE 2.1

**GROUNDWATER ELEVATIONS - 2000
WAUSAU WATER SUPPLY NPL SITE**

<i>Location</i>	<i>Top of Casing Elevation (ft. asl)</i>	<i>01/18/00 Quarterly</i>	<i>05/04/00 Comprehensive</i>	<i>10/24/00 Comprehensive</i>
<u>West Bank</u>				
C2S	1219.12		1183.73	1184.62
C3S	1220.44		1185.51	1186.09
C4D	1216.23	1185.51	1186.28	1186.71
C4S	1216.83		1186.25	1186.72
C6S	1221.71		1186.39	1187.14
C7S	1220.98		1184.39	1185.18
CW10	1224.4		1180.40	1180.40
CW6	1220.5		1155.50	1155.50
CW7	1223.93		1153.93	1153.93
CW9 OBS	1224.29		1163.29	1163.29
EW1	NA	NA	NA	NA
GM1S	1216.08		1185.43	Abandoned
GM2S	1211.78		1185.51	1186.26
GM4D	1216.38		1184.49	1186.03
GM4S	1216.05		1184.68	Abandoned
MW1A	1215.83		1185.38	1185.97
MW3A	1223.29		1184.92	1185.47
MW3B	1223.58		1185.02	Abandoned
MW4A	1215.26		1182.84	1183.34
MW4B	1215.64		1183.61	1184.12
MW4C	1215.23		1183.16	Abandoned
MW7	1218.67		1181.11	1181.95
R1D	1222.36		1185.18	1186.13
R1S	1222.11		1185.25	Abandoned
R2D	1209.56	1185.16	1185.28	1185.88
R2S	1209.84	1185.65	1186.04	1186.49
R3D	1215.53		1185.03	1185.72
R3S	1215.3		1185.73	1186.53
R4D	1218.97	1177.35	1178.83	1179.51
W50	1215.66		1185.14	1185.91
W51A	1224.52		Damaged*	Abandoned*
W52	1219.17		1184.51	1185.24
W52A	1219.06		1184.94	1185.89

TABLE 2.1

**GROUNDWATER ELEVATIONS - 2000
WAUSAU WATER SUPPLY NPL SITE**

<i>Location</i>	<i>Top of Casing Elevation (ft. asl)</i>	<i>01/18/00 Quarterly</i>	<i>05/04/00 Comprehensive</i>	<i>10/24/00 Comprehensive</i>
W53	1216.8	NA	1184.73	1185.21
W53A	1217.02		1184.70	1185.65
W54	1216.31		1184.33	1185.29
W55	1217.17	1184.57	1184.56	1185.02
W55A	1217.45	1185.26	1184.66	1185.47
W56	1200.13		1184.86	1185.50
W56A	1200.96		1188.03	Abandoned
W57	1205.31		1183.73	1184.24
WSWD	1192.98		1184.45	1185.04
WSWS	1192.83		1183.87	1186.88

Note:

*WC2 and W51A were damaged and unusable, and had to be abandoned.

**River level obtained from Wisconsin Valley Improvement.

TABLE 2.2

CORE MONITORING WELLS AND SITE SPECIFIC ANALYTE LIST
WAUSAU WATER SUPPLY NPL SITE

<i>Core Monitoring Wells</i>	<i>Analytical Parameters</i>
R4D	<u>Volatile Organics USEPA Method 8260B</u>
W55A	
W55	Acetone
R2S	Benzene
R2D	Carbon tetrachloride
W53	Chloroform
C4D	1,1-Dichloroethene
E23A	cis-1,2-Dichloroethene
WC2	Ethylbenzene
WC4	Methylene chloride
E21	Tetrachloroethene
IWD	Toluene
	1,1,2-Trichloroethane
	Trichloroethene
	Vinyl chloride
	Xylenes

Note:

The core monitoring wells were part of the old Monitoring Program Plan applicable through June 2000.
The Site Specific Analyte List was also used for sampling through June 2000.
These lists do not apply to samples collected after June 2000.

TABLE 2.3
SITE SPECIFIC VOC LIST
WAUSAU WATER SUPPLY NPL SITE

Acetone
Benzene
Carbon tetrachloride
Chloroform
1,1-Dichloroethene
cis-1,2-Dichloroethene
Ethylbenzene
Methylene chloride
Tetrachloroethene
Toluene
1,1,2-Trichloroethane
Trichloroethene
Vinyl chloride
Xylenes

Note:

This list of analytes applies to samples collected after May 2000.

TABLE 3.1

**EXTRACTION WELL (EW1) FLOW RATES
WAUSAU WATER SUPPLY NPL SITE**

<i>Date</i>	<i>Time</i>	<i>Elapsed Time (minutes)</i>	<i>Meter Reading (gallons)</i>	<i>Total Flow (gallons)</i>	<i>Average Flow Rate (gpm)</i>
01/04/00	10:30 AM		273,995,000		
02/01/00	9:30 AM	40,260	309,126,000	35,131,000	873
03/01/00	11:30 AM	41,880	339,568,000	30,442,000	727
04/03/00	9:30 AM	47,400	378,737,000	39,169,000	826
05/01/00	9:00 AM	40,290	410,392,000	31,655,000	786
06/01/00	9:00 AM	44,640	445,034,000	34,642,000	776
06/29/00	10:00 AM	40,380	477,637,000	32,603,000	807
08/03/00	10:00 AM	50,400	519,730,000	42,093,000	835
10/17/00	10:30 AM	108,030	598,905,000	79,175,000	733
01/08/01	9:30 AM	119,460	684,589,000	85,684,000	717
Total for the Year				410,594,000	771

Note:

The number of gallons and the average flow rate given are for the period preceeding the date.

TABLE 3.2

**CITY WELL PUMPING DATA - 2000
WAUSAU WATER SUPPLY NPL SITE**

		<i>Well #3</i>	<i>Well #6</i>	<i>Well #7</i>	<i>Well #9</i>	<i>Well #10</i>
January	Hours	410.0	327.1	384.3	217.6	249.3
	(million) Gallons	34.203	32.216	42.729	8.938	40.799
February	Hours	286.0	406.9	279.8	156.4	325.9
	Gallons	23.063	40.927	33.214	6.874	58.416
March	Hours	310.5	413.8	322.6	238.0	332.8
	Gallons	24.206	42.452	34.578	9.500	55.545
April	Hours	328.9	387.5	320.4	191.8	317.7
	Gallons	24.377	39.498	34.472	8.182	51.652
May	Hours	284.0	456.3	285.1	317.9	409.2
	Gallons	22.512	44.527	32.361	13.336	63.427
June	Hours	306.6	380.4	333.6	218.2	340.6
	Gallons	22.812	37.686	36.321	8.983	54.446
July	Hours	383.9	352.8	435.4	0	501.9
	Gallons	28.944	32.927	45.571	0	75.029
August	Hours	291.6	444.8	332.7	120.9	471.2
	Gallons	20.430	42.293	33.967	8.841	71.779
September	Hours	270.0	447.7	319.3	215.3	294.5
	Gallons	24.723	42.669	34.483	15.262	47.153
October	Hours	321.6	386.5	610.0	237.6	55.9
	Gallons	29.234	38.777	64.844	17.622	9.883
November	Hours	306.7	410.1	296.8	450.9	57.8
	Gallons	27.454	38.682	31.127	29.874	8.193
December	Hours	400.9	339.8	330.9	556.4	89.6
	Gallons	34.923	32.584	31.945	38.830	12.524

Notes:

Hours indicate total hours pumped per month.

Gallons indicate millions of gallons pumped per month.

TABLE 4.1

MONITORING WELL LABORATORY ANALYTICAL RESULTS - 2000
WAUSAU WATER SUPPLY NPL SITE

Location	Date	Dup	Bis(2-ethylhexyl)phthalate ug/L	1,1,2-Trichloroethane ug/L	1,1-Dichloroethene ug/L	Acetone ug/L	Benzene ug/L	Carbon tetrachloride ug/L	Chloroform ug/L	cis-1,2-Dichloroethene ug/L	Ethylbenzene ug/L	Methylene chloride ug/L	Tetrachloroethene ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L	Xylenes, Total ug/L	Total CVOC October 2000 ug/L
East Bank																		
CW3	10/26/00		< 1	< 1	< 10 U	< 1	< 1	< 1	< 1 U	1.1	< 1	< 1	3.2	< 1	2.6	< 1	< 1	6.9
E21	1/18/00		< 1	< 1 U	< 10	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	0.13 J	< 1	< 1	
E21	5/4/00		< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	
E22A	10/24/00		< 1	< 1	< 10 U	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	14	< 1	< 1	< 1	< 1	14
E23A	1/18/00		< 1	< 1 U	< 10 U	< 1 U	< 1	< 1	< 1	8	< 1	< 1	5.9 •	< 1	1.3	1.2	< 1	
E23A	5/4/00		< 1.7	0.26 J	< 17 U	< 1.7	< 1.7	0.22 J	62	< 1.7	< 1.7	4.5	< 1.7 U	1.4 J	2.1	< 1.7		
E23A	5/4/00	R	< 1	0.39 J	< 10	< 1	< 1	0.22 J	66 J	< 1	< 1	5.4 •	< 1 U	1.6	2.6	< 1		
E23A	10/24/00		< 1.7	< 1.7	< 17 U	0.76 J	< 1.7	< 1.7	55	< 1.7	< 1.7 U	6.7 •	< 1.7	2	2.8	< 1.7	66.5	
E24A	10/24/00		< 2	0.64 J	< 20 U	< 2	< 2	< 2	50	< 2	< 2 U	16 •	< 2	2.7	9.1	< 2	77.8	
E37A	10/24/00		< 1.7	< 1.7	< 17 U	0.2 J	< 1.7	< 1.7	43	< 1.7	< 1.7 U	4.5	< 1.7	1.5 J	3.2	< 1.7	50.7	
FVD5	10/24/00		< 8.3	< 8.3	< 83 U	58	< 8.3	< 8.3	< 4.2	180	< 8.3 U	3.5 J	34	< 8.3 •	< 8.3	580	ND	
IWD	5/4/00		< 1	< 1	< 10 U	< 1	< 1	< 1	0.37 J	< 1	< 1	< 1	< 1 U	1.5	< 1	< 1		
IWD	10/26/00		< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	0.62 J	< 1	< 1	ND	
MW10A	10/26/00		< 1	< 1	< 10 U	< 1	< 1	< 1	1.4	< 1	< 1	< 1	< 1	3.4	7.4 •	< 1	12.2	
MW10B	10/26/00		< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	1.2	< 1	< 1	< 1	< 1	1.2	
WC3B	10/26/00		< 1	< 1	< 10 U	< 1	< 1	< 1	0.45 J	< 1	< 1	< 1	< 1	< 1	0.78 J	< 1	ND	
WC4	1/18/00		< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1		
WC4	5/4/00		< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1		
WC5A	10/26/00		< 1.2	< 1.2	< 12 U	< 1.2	< 1.2	< 1.2	38	< 1.2	< 1.2 U	30 •	< 1.2	9.7 •	0.96 • J	< 1.2	77.7	
WW4	10/26/00		< 1	< 1	< 10 U	< 1	< 1	< 1 U	< 0.5	< 1	< 1	< 1	< 1	3	< 1	< 1	3	
WW6	10/24/00		< 1	< 1	< 10 U	0.19 J	< 1	< 1	7.8	< 1	< 1	1	< 1	0.64 J	1.2	< 1	10	
WW6	10/24/00	D	< 1	< 1	< 10 U	< 1	< 1	< 1	8.2	< 1	< 1	0.97 J	< 1	0.63 J	1.9 •	< 1	10.1	

TABLE 4.1

MONITORING WELL LABORATORY ANALYTICAL RESULTS - 2000
WAUSAU WATER SUPPLY NPL SITE

Location	Date	Dup	Bis(2-ethylhexyl)phthalate ug/L	1,1,2-Trichloroethane ug/L	1,1-Dichloroethene ug/L	Acetone ug/L	Benzene ug/L	Carbon tetrachloride ug/L	Chloroform ug/L	↓ cis-1,2-Dichloroethene ug/L	Ethylbenzene ug/L	Methylene chloride ug/L	↓ Tetrachloroethene ug/L	Toluene ug/L	↓ Trichloroethene ug/L	Vinyl chloride ug/L	Xylenes, Total ug/L	Total CVOC October 2000 ug/L
West Bank																		
C2S	10/25/00			< 1	0.34 J	< 10 U	< 1	< 1	< 1 U	< 0.5	< 1	< 1	< 1	< 1	7.1 •	< 1	< 1	7.1
C4D	1/18/00			< 1	< 1	< 10	< 1 U	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	0.12 J	< 1	< 1	
C4D	5/4/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	
C4S	10/25/00		< 10	< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
CW6	10/26/00			< 1	< 1	< 10 U	< 1	< 1	< 1	0.12 J	< 1	< 1	< 1	< 1	14 •	< 1	< 1	14
MW1A	10/25/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
R2D	1/18/00			< 3.6	< 3.6 U	< 36	< 3.6	< 3.6	< 3.6	1.4 J	< 3.6	< 3.6 U	< 3.6	< 3.6	94 •	< 3.6	< 3.6	
R2D	5/4/00			< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 2.5	1.1 J	< 2.5	< 2.5	< 2.5	< 2.5	75 •	< 2.5	< 2.5	
R2D	5/4/00	R		< 1	0.14 J	< 10	< 1	< 1	< 1	1.2	< 1	< 1	< 1	< 1	87 • J	< 1	< 1	
R2D	10/25/00			< 1.7	< 1.7	< 17 U	< 1.7	< 1.7	< 1.7	0.82 J	< 1.7	< 1.7 U	< 1.7	< 1.7	45 •	< 1.7	< 1.7	45
R2S	1/18/00			< 1	< 1	< 10	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	
R2S	5/4/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1 U	< 1	< 1 U	< 1	< 1	< 1	
R3D	10/26/00			< 83	< 83	< 830 U	< 83	< 83	< 83	11 J	< 83	< 83 U	< 83 •	< 83	1800 •	< 83	< 83	1800
R4D	1/18/00			< 1	< 1 U	< 10	< 1	< 1	< 1	0.78	< 1	< 1	< 1	< 1	39 •	< 1	< 1	
R4D	5/4/00			< 1	< 1	< 10 U	< 1	< 1	< 1	0.83	< 1	< 1	< 1	< 1 U	39 •	< 1	< 1	
R4D	10/25/00			< 2	< 2	< 20 U	< 2	< 2	< 2	1.7	< 2	< 2 U	< 2	< 2	56 •	< 2	< 2	57.7
W52	10/25/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	1.2	< 1	< 1	1.2
W53	5/4/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	1.2	< 1	< 1	
W53A	10/25/00		12	< 1	< 1	< 10 U	< 1	0.4 J	< 1 U	15	< 1	< 1	< 1	< 1	12	< 1	< 1	27
W54	10/25/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	0.38 J	< 1	< 1	ND
W55	1/18/00			< 1	< 1 U	< 10 U	< 1	< 1	< 1	0.4 J	< 1	< 1	< 1	< 1	18 •	< 1	< 1	
W55	1/18/00	D		< 1	< 1 U	< 10 U	< 1	< 1	< 1	0.37 J	< 1	< 1	< 1	< 1	19 •	< 1	< 1	
W55	5/4/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	
W55	5/4/00	D		< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	
W55	10/25/00			< 1	< 1	< 10 U	< 1	< 1	< 1	0.29 J	< 1	< 1	< 1	< 1	11 •	< 1	< 1	11
W55	10/25/00	D		< 1	< 1	< 10 U	< 1	< 1	< 1	0.3 J	< 1	< 1	< 1	< 1	9.8 •	< 1	< 1	9.8
W55A	1/18/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	
W55A	5/4/00			< 1	< 1	< 10 U	< 1	< 1	< 1	0.25 J	< 1	< 1	< 1	< 1	12 •	< 1	< 1	
W56	10/25/00			< 1	< 1	< 10 U	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	0.67 J	< 1	< 1	ND
WSWD	10/26/00			< 1	< 1	< 10 U	< 1	< 1	< 1	0.2 J	< 1	< 1	< 1	< 1	1.3	< 1	< 1	1.3

Notes:

D - Duplicate Sample

R - Reanalyzed due to calibration range exceedance.

U - Estimated detection limit.

J - Estimated value.

Total CVOCs - Total chlorinated VOCs (does not include estimated values).

TABLE 4.2

EW1 LABORATORY ANALYTICAL RESULTS - 2000
WAUSAU WATER SUPPLY NPL SITE

Location	Date	Barium ug/L	Chromium ug/L	Iron ug/L	Manganese ug/L	pH	Zinc ug/L	1,1,2-Trichloroethane ug/L	1,1-Dichloroethene ug/L	Acetone ug/L	Benzene ug/L	Carbon tetrachloride ug/L	Chloroform ug/L	cis-1,2-Dichloroethene ug/L	Ethylbenzene ug/L	Methylene chloride ug/L	Tetrachloroethene ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L	Xylenes, Total ug/L
Effluent	1/4/00	< 200	< 10	2140	1030	6.8	43.7	< 1	< 1	1.9 J	0.17 J	< 1	4.1	0.39 J	< 1	1.7	< 1	0.067 J	11	< 1	< 1
Effluent	2/1/00	< 200	< 10	1830	922	7.3	36.9	< 1	< 1	< 10	< 1	< 1	3.4	0.51	< 1	< 1	< 1	< 1 U	10	< 1	< 1
Effluent	3/1/00	< 200	< 10	1870	1050	6.9	< 20	< 1	< 1	2.8 J	< 1	< 1	3.1	0.46 J	< 1	0.098 J	< 1	< 1	11	< 1	< 1
Effluent	4/3/00	< 200	< 10	1870	930	6.8	< 20	< 1	< 1	< 10	< 1	< 1	2.4	0.41 J	< 1	< 1	< 1	0.062 J	9.7	< 1	< 1
Effluent	5/1/00	< 200	< 10	1870	991	6.2	< 20	< 1	< 1	< 10	< 1	< 1	3.6	0.37 J	< 1	< 1	< 1	< 1	9.3	< 1	< 1
Effluent	6/1/00	< 200	< 10	1360	717	7.1	70.1	< 1	< 1	< 10	< 1	< 1	4	0.28 J	< 1	< 1	< 1	< 1	8.1	< 1	< 1
Effluent	6/29/00	< 200	< 10	1570	821	7	< 20	< 1	< 1	< 10	< 1	< 1	4.9	0.43 J	< 1	< 3 U	< 1	< 1 U	9.7	< 1	< 1
Effluent	10/17/00							< 1	< 1	< 10 U	< 1	< 1	2.5	0.37 J	< 1	< 1	< 1	< 1	9.2	< 1	< 1
Influent	1/4/00							< 1	< 1	< 10	0.083 J	< 1	1.1	0.66	< 1	1.4	< 1	< 1	21	< 1	< 1
Influent	2/1/00							< 1	< 1	< 10	< 1	< 1	1.1	0.78	< 1	< 1	< 1	< 1	19	< 1	< 1
Influent	3/1/00							< 1	< 1	3.6 J	< 1	< 1	0.72 J	0.69	< 1	0.11 J	< 1	< 1	19	< 1	< 1
Influent	4/3/00							< 1	< 1	< 10	< 1	< 1	0.87 J	0.67	< 1	< 1	< 1	< 1	19	< 1	< 1
Influent	5/1/00							< 1	< 1	< 10	< 1	< 1	0.78 J	0.6	< 1	< 1	< 1	< 1	19	< 1	< 1
Influent	6/1/00							< 1	< 1	< 10	< 1	< 1	0.69 J	0.56	< 1	< 1	< 1	< 1	18	< 1	< 1
Influent	6/29/00							< 1	< 1	< 10	< 1	< 1	0.82 J	0.6	< 1	< 1.7 U	< 1	< 1	18	< 1	< 1
Influent	10/17/00							< 1	< 1	< 10 U	< 1	< 1	0.66 J	0.62	< 1	< 1	< 1	< 1	18	< 1	< 1

APPENDIX A
MONITORING WELL LABORATORY RESULTS



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ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
D7M91	A0A200221-001	W-000118-DN-01
D7M9Q	A0A200221-002	W-000118-DN-02
D7M9X	A0A200221-003	W-000118-DN-03
D7MA1	A0A200221-004	W-000118-DN-04
D7MA2	A0A200221-005	W-000118-DN-05
D7MA3	A0A200221-006	W-000118-DN-06
D7MA4	A0A200221-007	W-000118-DN-07
D7MA5	A0A200221-008	W-000118-DN-08
D7MA6	A0A200221-009	W-000118-DN-10
D7MA7	A0A200221-010	W-000118-DN-11
D7MAC	A0A200221-011	TRIP BLANK
D7MCA	A0A200221-012	W-000118-DN-09

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

February 18, 2000

CEA rec'd
2-19-00

CASE NARRATIVE

The following report contains the analytical results for eleven water samples and one quality control sample submitted to Quanterra Incorporated-North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Site, project number 3978. The samples were received January 20, 2000, according to documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter listed on the analytical methods summary page in accordance with the method indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on January 28, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

ANALYTICAL METHODS SUMMARY

AOA200221

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0A200221

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D7M91	001	W-000118-DN-01	01/18/00	
D7M9Q	002	W-000118-DN-02	01/18/00	
D7M9X	003	W-000118-DN-03	01/18/00	
D7MA1	004	W-000118-DN-04	01/18/00	
D7MA2	005	W-000118-DN-05	01/18/00	
D7MA3	006	W-000118-DN-06	01/18/00	
D7MA4	007	W-000118-DN-07	01/18/00	
D7MA5	008	W-000118-DN-08	01/18/00	
D7MA6	009	W-000118-DN-10	01/18/00	
D7MA7	010	W-000118-DN-11	01/18/00	
D7MAC	011	TRIP BLANK	01/18/00	
D7MCA	012	W-000118-DN-09	01/18/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-01 W-55

GC/MS Volatiles

Lot-Sample #....: A0A200221-001 Work Order #....: D7M91101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
cis-1,2-Dichloroethene	0.40 J	0.50	ug/L
Acetone	1.5 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.12 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	18	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	113	(61 - 128)
Toluene-d8	91	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-02

W-55 dup

GC/MS Volatiles

Lot-Sample #....: A0A200221-002 Work Order #....: D7M9Q101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.37 J	0.50	ug/L
Acetone	1.2 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.14 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	19	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	115	(61 - 128)
Toluene-d8	93	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-03

GC/MS Volatiles

W55A

Lot-Sample #....: AQA200221-003 Work Order #....: D7M9X101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.7 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethane	ND	1.0	ug/L
Toluene	0.054 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(61 - 128)
Toluene-d8	87	(76 - 109)
Dibromofluoromethane	103	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-04

GC/MS Volatiles

W55A rinsate

Lot-Sample #....: A0A200221-004 Work Order #....: D7MA1101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.1 J	10	ug/L
Benzene	0.14 J	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.44 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	91	(76 - 109)
Dibromofluoromethane	104	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-05

R2S

GC/MS Volatiles

Lot-Sample #....: A0A200221-005 Work Order #....: D7MA2101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.041 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	90	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-06

R2D

GC/MS Volatiles

Lot-Sample #....: A0A200221-006 Work Order #....: D7MA3101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 3.57 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	36	ug/L
Benzene	ND	3.6	ug/L
Carbon tetrachloride	ND	3.6	ug/L
cis-1,2-Dichloroethene	1.4 J	1.8	ug/L
Chloroform	ND	3.6	ug/L
1,1-Dichloroethene	0.68 J	3.6	ug/L
Ethylbenzene	ND	3.6	ug/L
Methylene chloride	0.49 J,B	3.6	ug/L
Tetrachloroethene	ND	3.6	ug/L
Toluene	ND	3.6	ug/L
1,1,2-Trichloroethane	ND	3.6	ug/L
Trichloroethene	94	3.6	ug/L
Vinyl chloride	ND	3.6	ug/L
Xylenes (total)	ND	3.6	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	92	(76 - 109)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	89	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-07

R4D

GC/MS Volatiles

Lot-Sample #....: A0A200221-007 Work Order #....: D7MA4101
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

Matrix.....: WATER

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
cis-1,2-Dichloroethene	0.78	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.15 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	39	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	113	(61 - 128)
Toluene-d8	93	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-08

C4D

GC/MS Volatiles

Lot-Sample #....: A0A200221-008 Work Order #....: D7MA5101 Matrix.....: WATER
 Date Sampled...: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	0.19 J	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.12 J	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(61 - 128)
Toluene-d8	92	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	88	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-10

E21

GC/MS Volatiles

Lot-Sample #....: A0A200221-009
Date Sampled....: 01/18/00
Prep Date.....: 01/26/00
Prep Batch #....: 0027163
Dilution Factor: 1

Work Order #....: D7MA6101
Date Received...: 01/20/00
Analysis Date...: 01/26/00
Method.....: SW846 8260B

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.14 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.13 J	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	92	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	89	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-11

WC4

GC/MS Volatiles

Lot-Sample #....: A0A200221-010 Work Order #....: D7MA7101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.3 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.11 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	92	(76 - 109)
Dibromofluoromethane	104	(73 - 122)
4-Bromofluorobenzene	89	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: A0A200221-011 Work Order #....: D7MAC101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	0.14 J	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.15 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.19 J,B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	115	(61 - 128)
Toluene-d8	91	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000118-DN-09

E23A

GC/MS Volatiles

Lot-Sample #....: A0A200221-012 Work Order #....: D7MCA101 Matrix.....: WATER
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	8.0	0.50	ug/L
Acetone	3.1 J	10	ug/L
Benzene	0.68 J	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.15 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	5.9	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.3	1.0	ug/L
Vinyl chloride	1.2	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(61 - 128)
Toluene-d8	91	(76 - 109)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

Quanterra Incorporated – North Canton Facility, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), Ohio VAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

Revision 4, 07/02/99
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A200221 Work Order #....: D7WKL102 Matrix.....: WATER
 LCS Lot-Sample#: A0A270000-163
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	95	(63 - 130)	SW846 8260B
Trichloroethene	98	(75 - 122)	SW846 8260B
Benzene	98	(80 - 116)	SW846 8260B
Toluene	110	(74 - 119)	SW846 8260B
Chlorobenzene	105	(76 - 117)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	92	(76 - 109)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0A200221
MB Lot-Sample #: A0A270000-163

Work Order #...: D7WKL101

Matrix.....: WATER

Analysis Date...: 01/26/00
Dilution Factor: 1

Prep Date.....: 01/26/00

Prep Batch #...: 0027163

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.13 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
1,2-Dichloroethane-d4	105	(61 - 128)		
Toluene-d8	91	(76 - 109)		
Dibromofluoromethane	100	(73 - 122)		
4-Bromofluorobenzene	88	(74 - 116)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A200221 Work Order #....: D7MA7102-MS Matrix.....: WATER
 MS Lot-Sample #: A0A200221-010 D7MA7103-MSD
 Date Sampled....: 01/18/00 Date Received...: 01/20/00
 Prep Date.....: 01/26/00 Analysis Date...: 01/26/00
 Prep Batch #....: 0027163
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(62 - 130)			SW846 8260B
	98	(62 - 130)	3.0	(0-20)	SW846 8260B
Trichloroethene	97	(62 - 130)			SW846 8260B
	100	(62 - 130)	2.7	(0-20)	SW846 8260B
Benzene	100	(76 - 118)			SW846 8260B
	103	(76 - 118)	3.2	(0-20)	SW846 8260B
Toluene	114	(70 - 119)			SW846 8260B
	118	(70 - 119)	3.7	(0-20)	SW846 8260B
Chlorobenzene	107	(76 - 117)			SW846 8260B
	110	(76 - 117)	3.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
	106	(61 - 128)
Toluene-d8	91	(76 - 109)
	90	(76 - 109)
Dibromofluoromethane	97	(73 - 122)
	97	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)
	88	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

Quanterra

REFERENCE NUMBER:

3978 (Wausau)

SAMPLER'S
SIGNATURE:

[Signature]

PRINTED
NAME:

DAVE NELSON

SEQ.
No.

DATE

TIME

SAMPLE No.

SAMPLE
TYPE

No. OF
CONTAINERS

PARAMETERS

REMARKS

11/18/00			4-000118-DN-01	Water	1		
			-02				
			-03				
			-04				
			-05				
			-06				
			-07				
			-08				
			-09				
			-10				
			-11 (HS/MSD)				

Trip Blank
Test Blank

516 lbs

Any Overlays
Contacted - Puch
miche @ 651-
639-0913

only analyze
one trip blank

TOTAL NUMBER OF CONTAINERS

42

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

① *[Signature]*

DATE: 1/19/00

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Red-Ex

WAY BILL No.

White

Yellow

Pink

Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

Nelson, D.

RECEIVED FOR LABORATORY BY:

[Signature]

No 03642

DATE: 1-20-00 TIME: 1035

CHAIN OF CUSTODY RECORD

FEB 21 2000

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

Quanterra

REFERENCE NUMBER:

#3978 (Wausau) **CRA, INC.**SAMPLER'S
SIGNATURE:PRINTED
NAME:

DAN NELSON

No. OF
CONTAINERS

PARAMETERS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	1/18/00		W-000118-DN-01	Water	3	X	
			-02		3	X	
			-03		3	X	
			-04		3	X	
			-05		3	X	
			-06		3	X	
			-07		3	X	
			-08		3	X	
			-09		3	X	
			-10		3	X	
			-11 (MS/MSD)		9	X	
			Trip Blank		2		
			Temp Blank		1		
TOTAL NUMBER OF CONTAINERS					42	HEALTH/CHEMICAL HAZARDS	

Any Questions
Contact Rich
Muhle @ 651-
639-0913

* Only analyze
one trip blank

RELINQUISHED BY:

①

DATE: 1/19/00

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex

WAY BILL No.

White

-Fully Executed Copy

Yellow

-Receiving Laboratory Copy

Pink

-Shipper Copy

Goldenrod

-Sampler Copy

SAMPLE TEAM:

Nelson, D.

RECEIVED FOR LABORATORY BY:

Rowe, J.

NO 03642

DATE: 1-20-00 TIME: 1035

Quanterra
4101 Shuffel Drive, NW
North Canton, Ohio 44720-6961

330 497-9396 Telephone
330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU NPL

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
DCX77	A0E090135-001	W-000504-DN-01
DCX7E	A0E090135-002	W-000504-DN-02
DCX7F	A0E090135-003	W-000504-DN-03
DCX7G	A0E090135-004	W-000504-DN-04
DCX7H	A0E090135-005	W-000504-DN-05
DCX7J	A0E090135-006	W-000504-DN-06
DCX7K	A0E090135-007	W-000504-DN-07
DCX7L	A0E090135-008	W-000504-DN-08
DCX7M	A0E090135-009	W-000504-DN-09
DCX7N	A0E090135-010	W-000504-DN-10
DCX7P	A0E090135-011	W-000504-DN-11
DCX7Q	A0E090135-012	W-000504-DN-12
DCX7R	A0E090135-013	W-000504-DN-13
DCX7T	A0E090135-014	TRIP BLANK

*copy rec'd
5-23-00*

QUANTERRA INCORPORATED


Amy L. McCormick
Project Manager

May 22, 2000

CASE NARRATIVE

The following report contains the analytical results for thirteen water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau NPL Site, project number 3978. The samples were received May 9, 2000, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter listed on the analytical methods summary page in accordance with the method indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on May 21, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

Two analyses were used to report samples DN-07 and DN-10 due to high analyte concentrations.

ANALYTICAL METHODS SUMMARY

A0E090135

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0E090135

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DCX77	001	W-000504-DN-01	05/04/00	
DCX7E	002	W-000504-DN-02	05/04/00	
DCX7F	003	W-000504-DN-03	05/04/00	
DCX7G	004	W-000504-DN-04	05/04/00	
DCX7H	005	W-000504-DN-05	05/04/00	
DCX7J	006	W-000504-DN-06	05/04/00	
DCX7K	007	W-000504-DN-07	05/04/00	
DCX7L	008	W-000504-DN-08	05/04/00	
DCX7M	009	W-000504-DN-09	05/04/00	
DCX7N	010	W-000504-DN-10	05/04/00	
DCX7P	011	W-000504-DN-11	05/04/00	
DCX7Q	012	W-000504-DN-12	05/04/00	
DCX7R	013	W-000504-DN-13	05/04/00	
DCX7T	014	TRIP BLANK	05/04/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-01

R4D

GC/MS Volatiles

Lot-Sample #....: A0E090135-001 Work Order #....: DCX77101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.83	0.50	ug/L
Acetone	1.3 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.051 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	39	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-02

WSSA

GC/MS Volatiles

Lot-Sample #....: A0E090135-002 Work Order #....: DCX7E101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.25 J	0.50	ug/L
Acetone	1.0 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	12	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-03

WSS

GC/MS Volatiles

Lot-Sample #....: A0E090135-003 Work Order #....: DCX7F101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.2 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.056 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-04

WSS dup.

GC/MS Volatiles

Lot-Sample #....: A0E090135-004 Work Order #....: DCX7G101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.4 J	10	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.065 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 128)
Toluene-d8	89	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	89	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-05

R2S

GC/MS Volatiles

Lot-Sample #....: A0E090135-005 Work Order #....: DCX7H101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.3 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.14 J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.066 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	90	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-06, *R2S inset*

GC/MS Volatiles

Lot-Sample #....: A0E090135-006 Work Order #....: DCX7J101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.1 J	10	ug/L
Benzene	0.17 J	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	0.053 J	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.50 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-07

R2D

GC/MS Volatiles

Lot-Sample #....: A0E090135-007 Work Order #....: DCX7K201 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	1.2	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.14 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Trichloroethene	87 E	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	92	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-07 R2D

GC/MS Volatiles

Lot-Sample #....: A0E090135-007 Work Order #....: DCX7K101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	1.1 J	1.2	ug/L
Acetone	ND	25	ug/L
Benzene	ND	2.5	ug/L
Carbon tetrachloride	ND	2.5	ug/L
Chloroform	ND	2.5	ug/L
1,1-Dichloroethene	ND	2.5	ug/L
Ethylbenzene	ND	2.5	ug/L
Methylene chloride	ND	2.5	ug/L
Tetrachloroethene	ND	2.5	ug/L
Toluene	ND	2.5	ug/L
1,1,2-Trichloroethane	ND	2.5	ug/L
Trichloroethene	75	2.5	ug/L
Vinyl chloride	ND	2.5	ug/L
Xylenes (total)	ND	2.5	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	92	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-08 W53

GC/MS Volatiles

Lot-Sample #....: A0E090135-008 Work Order #....: DCX7L101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.0 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.044 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.2	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 128)
Toluene-d8	90	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-09

C4D

GC/MS Volatiles

Lot-Sample #....: A0E090135-009 Work Order #....: DCX7M101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	0.88 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.044 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONVOLUTIONAL & ASSOC., INC.

Client Sample ID: W-000504-DN-10

E 23A

GC/MS Volatiles

Lot-Sample #....: A0E490134-010 Stock Order #....: DCX7N201 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	66 E	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.02 J	1.0	ug/L
1,1-Dichloroethene	0.19 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	5.4	1.0	ug/L
Toluene	0.098 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethane	2.6	1.0	ug/L
Vinyl chloride	3.4	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	RECOVERY	RECOVERY LIMITS
1,2-Dichloroethene-d4	101	(61 - 128)
Toluene-d8	89	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	89	(74 - 116)

NOTE(S):

- E Estimated result. Result concentration exceeds the calibration range.
 J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-10

E23A

GC/MS Volatiles

Lot-Sample #....: A0E090135-010 Work Order #....: DCX7N101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1.66 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	62	0.83	ug/L
Acetone	2.9 J	17	ug/L
Benzene	ND	1.7	ug/L
Carbon tetrachloride	ND	1.7	ug/L
Chloroform	0.22 J	1.7	ug/L
1,1-Dichloroethene	0.26 J	1.7	ug/L
Ethylbenzene	ND	1.7	ug/L
Methylene chloride	ND	1.7	ug/L
Tetrachloroethene	4.5	1.7	ug/L
Toluene	0.12 J	1.7	ug/L
1,1,2-Trichloroethane	ND	1.7	ug/L
Trichloroethene	1.4 J	1.7	ug/L
Vinyl chloride	2.1	1.7	ug/L
Xylenes (total)	ND	1.7	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	89	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	88	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-11

wc4

GC/MS Volatiles

Lot-Sample #....: A0E090135-011 Work Order #....: DCX7P101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.3 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.18 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-12

E21

GC/MS Volatiles

Lot-Sample #....: A0E090135-012 Work Order #....: DCX7Q101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.055 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-000504-DN-13

Low

GC/MS Volatiles

Lot-Sample #....: A0E090135-013 Work Order #....: DCX7R101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.37 J	0.50	ug/L
Acetone	1.1 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.10 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.5	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	92	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: A0E090135-014 Work Order #....: DCX7T101 Matrix.....: WG
 Date Sampled....: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.76 J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.56 J	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL), the analytes were greater than 10 times the blank level, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Carolina (39702), North Dakota (#R-156), Ohio (#6090), Ohio VAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence

Revision7, 03/21/00
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0E090135 Work Order #....: DD3WH102 Matrix.....: WATER
 LCS Lot-Sample#: A0E120000-109
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	99	(63 - 130)	SW846 8260B
Trichloroethene	103	(75 - 122)	SW846 8260B
Benzene	99	(80 - 116)	SW846 8260B
Toluene	103	(74 - 119)	SW846 8260B
Chlorobenzene	100	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	87	(61 - 128)
Toluene-d8	93	(76 - 110)
Dibromofluoromethane	91	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0E090135
MB Lot-Sample #: A0E120000-109

Work Order #...: DD3WH101

Matrix.....: WATER

Analysis Date...: 05/11/00
Dilution Factor: 1

Prep Date.....: 05/11/00
Prep Batch #...: 0133109

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	90	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0E090135 Work Order #....: DCX7Q102-MS Matrix.....: WG
 MS Lot-Sample #: A0E090135-012 DCX7Q103-MSD
 Date Sampled...: 05/04/00 Date Received...: 05/09/00
 Prep Date.....: 05/11/00 Analysis Date...: 05/11/00
 Prep Batch #....: 0133109
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	102	(62 - 130)			SW846 8260B
	101	(62 - 130)	1.2	(0-20)	SW846 8260B
Trichloroethene	105	(62 - 130)			SW846 8260B
	104	(62 - 130)	1.0	(0-20)	SW846 8260B
Benzene	104	(76 - 118)			SW846 8260B
	102	(76 - 118)	1.9	(0-20)	SW846 8260B
Toluene	108	(70 - 119)			SW846 8260B
	106	(70 - 119)	1.0	(0-20)	SW846 8260B
Chlorobenzene	105	(76 - 117)			SW846 8260B
	105	(76 - 117)	0.12	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(61 - 128)
	92	(61 - 128)
Toluene-d8	95	(76 - 110)
	96	(76 - 110)
Dibromofluoromethane	94	(73 - 122)
	94	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)
	90	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CHAIN OF CUSTODY RECORD

27

CRA CONESTOGA-ROVERS & ASSOCIATES 1801 OLD HWY. 8, SUITE 114 ST. PAUL, MN 55112 (612)639-0913				SHIPPED TO (Laboratory Name): XXXXXXXXXXXXXXXXXXXX STL Inc.				REFERENCE NUMBER: # 3978 (WAUSAU NPL Site)					
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: DAN NELSON			No. OF CONTAINERS		PARAMETERS				REMARKS	
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS				REMARKS			
	5/4/00		W-000504-DN-01	WASH	3	X	X	X	X	X	X		
			-02		3	X	X	X	X	X	X		
			-03		3	X	X	X	X	X	X		
			-04		3	X	X	X	X	X	X		
			-05		3	X	X	X	X	X	X		
			-06		3	X	X	X	X	X	X		
			-07		3	X	X	X	X	X	X		
			-08		3	X	X	X	X	X	X		
			-09		3	X	X	X	X	X	X		
			-10		3	X	X	X	X	X	X		
			-11		3	X	X	X	X	X	X		
			-12 (WASHED)		9	X	X	X	X	X	X		
			-13		3	X	X	X	X	X	X		
			chip blank		1	X							
TOTAL NUMBER OF CONTAINERS					46	HEALTH/CHEMICAL HAZARDS							
RELINQUISHED BY: ① <i>[Signature]</i>				DATE: 5/8/00 TIME: 11:30		RECEIVED BY: ② _____				DATE: _____ TIME: _____			
RELINQUISHED BY: ② _____				DATE: _____ TIME: _____		RECEIVED BY: ③ _____				DATE: _____ TIME: _____			
RELINQUISHED BY: ③ _____				DATE: _____ TIME: _____		RECEIVED BY: ④ _____				DATE: _____ TIME: _____			
METHOD OF SHIPMENT: Fed-Ex						WAY BILL No. _____							
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy				SAMPLE TEAM: <i>[Signature]</i>		RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: 5/9/00 TIME: 9:35							

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

~~XXXXXXXXXXXXXXXXXXXX~~ **STL**
~~XXXXXXXXXXXXXXXXXXXX~~ **INC.**

REFERENCE NUMBER:

3978 (WAUSAU NPL Site)

SAMPLER'S
SIGNATURE:

[Signature]

PRINTED

NAME:

DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	5/4/00		W-000504-DN-01	WALA	3	X	
			-02		3	X	
			-03		3	X	
			-04		3	X	
			-05		3	X	
			-06		3	X	
			-07		3	X	
			-08		3	X	
			-09		3	X	
			-10		3	X	
			-11		3	X	
			-12 (H&M)		9	X	
			-13		3	X	
			chip blank		1	X	

TOTAL NUMBER OF CONTAINERS

46

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

① *[Signature]*

DATE: 5/8/00

TIME: 11:30

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex

WAY BILL No.

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldenrod - Sampler Copy

SAMPLE TEAM:

[Signature]

RECEIVED FOR LABORATORY BY:

[Signature]

DATE: 5/9/00 TIME: 9:35

No 02725

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

~~XXXXXXXXXXXXXXXXXXXX~~ STZ INC.

REFERENCE NUMBER:

3978 (WAUSAU NPL Site)

SAMPLER'S SIGNATURE:

[Signature]

PRINTED NAME:

DAN NEISON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	5/24/01		W-0005001-DN-01 R4D	VIALA	3	X	
			-02 W55A		3	X	
			-03 W55		3	X	
			-04 W55 (Dup.)		3	X	
			-05 R2S		3	X	
			-06 R2S (R.B.)		3	X	
			-07 R2D		3	X	
			-08 W53		3	X	
			-09 C4D		3	X	
			-10 E23A		3	X	
			-11 WCH		3	X	
			-12 (WCH) E21		9	X	
			-13 IND		3	X	
			chip black		1	X	
TOTAL NUMBER OF CONTAINERS					46	HEALTH/CHEMICAL HAZARDS	

RELINQUISHED BY: ① *[Signature]*
RELINQUISHED BY: ② _____
RELINQUISHED BY: ③ _____

DATE: 5/24/01
TIME: 11:30
DATE: _____
TIME: _____
DATE: _____
TIME: _____

RECEIVED BY: ② _____
RECEIVED BY: ③ _____
RECEIVED BY: ④ _____

DATE: _____
TIME: _____
DATE: _____
TIME: _____
DATE: _____
TIME: _____

METHOD OF SHIPMENT:

Fed-Ex

WAY BILL No.

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldenrod - Sampler Copy

SAMPLE TEAM:

[Signature]

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

NO 02725

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
DN2EE	A0J300112-001	W-001024-DN-01
DN2EG	A0J300112-002	W-001024-DN-02
DN2EH	A0J300112-003	W-001024-DN-03
DN2EJ	A0J300112-004	W-001024-DN-04
DN2EK	A0J300112-005	W-001024-DN-05
DN2EL	A0J300112-006	W-001024-DN-06
DN2EM	A0J300112-007	W-001024-DN-07
DN2EN	A0J300112-008	W-001024-DN-08
DN2EP	A0J300112-009	W-001025-DN-09
DN2EQ	A0J300112-010	W-001025-DN-10
DN2ER	A0J300112-011	W-001025-DN-11
DN2ET	A0J300112-012	W-001025-DN-12
DN2EV	A0J300112-013	W-001025-DN-13
DN2EX	A0J300112-014	W-001025-DN-14
DN2EO	A0J300112-015	W-001025-DN-15
DN2E1	A0J300112-016	W-001025-DN-16
DN2E2	A0J300112-017	W-001025-DN-17
DN2E3	A0J300112-018	W-001025-DN-18
DN2E6	A0J300112-019	W-001025-DN-19
DN2E7	A0J300112-020	W-001025-DN-20
DN2E8	A0J300112-021	W-001026-DN-21
DN2FA	A0J300112-022	W-001026-DN-22
DN2FC	A0J300112-023	W-001026-DN-23
DN2FD	A0J300112-024	W-001026-DN-24
DN2FE	A0J300112-025	W-001026-DN-25
DN2FF	A0J300112-026	W-001026-DN-26
DN2FG	A0J300112-027	W-001026-DN-27
DN2FH	A0J300112-028	W-001026-DN-28
DN2FJ	A0J300112-029	W-001026-DN-29
DN2FK	A0J300112-030	W-001026-DN-30
DN2FL	A0J300112-031	TRIP BLANKS

*Copy made
11.22.00*

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick

Amy L. McCormick

Project Manager

STL North Canton is a part of Severn Trent Laboratories, Inc.

November 26, 2000

CASE NARRATIVE

A0J300112

The following report contains the analytical results for thirty water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Site, project number 3978. The samples were received October 28, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by electronic mail to Ruth Mickle on November 13, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

The matrix spike/matrix spike duplicate associated with sample DN-28 failed spike recovery criteria. The laboratory control sample and method blank associated with this batch were in control; therefore, no corrective action was necessary.

ANALYTICAL METHODS SUMMARY

A0J300112

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0J300112

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DN2EE	001	W-001024-DN-01	10/24/00	
DN2EG	002	W-001024-DN-02	10/24/00	
DN2EH	003	W-001024-DN-03	10/24/00	
DN2EJ	004	W-001024-DN-04	10/24/00	
DN2EK	005	W-001024-DN-05	10/24/00	
DN2EL	006	W-001024-DN-06	10/24/00	
DN2EM	007	W-001024-DN-07	10/24/00	
DN2EN	008	W-001024-DN-08	10/24/00	
DN2EP	009	W-001025-DN-09	10/25/00	
DN2EQ	010	W-001025-DN-10	10/25/00	
DN2ER	011	W-001025-DN-11	10/25/00	
DN2ET	012	W-001025-DN-12	10/25/00	
DN2EV	013	W-001025-DN-13	10/25/00	
DN2EX	014	W-001025-DN-14	10/25/00	
DN2E0	015	W-001025-DN-15	10/25/00	
DN2E1	016	W-001025-DN-16	10/25/00	
DN2E2	017	W-001025-DN-17	10/25/00	
DN2E3	018	W-001025-DN-18	10/25/00	
DN2E6	019	W-001025-DN-19	10/25/00	
DN2E7	020	W-001025-DN-20	10/25/00	
DN2E8	021	W-001026-DN-21	10/26/00	
DN2FA	022	W-001026-DN-22	10/26/00	
DN2FC	023	W-001026-DN-23	10/26/00	
DN2FD	024	W-001026-DN-24	10/26/00	
DN2FE	025	W-001026-DN-25	10/26/00	
DN2FF	026	W-001026-DN-26	10/26/00	
DN2FG	027	W-001026-DN-27	10/26/00	
DN2FH	028	W-001026-DN-28	10/26/00	
DN2FJ	029	W-001026-DN-29	10/26/00	
DN2FK	030	W-001026-DN-30	10/26/00	
DN2FL	031	TRIP BLANKS	10/26/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001024-DN-01

Residue
E37A

GC/MS Volatiles

Lot-Sample #....: A0J300112-001 Work Order #....: DN2EE1AA Matrix.....: WG
Date Sampled....: 10/24/00 Date Received...: 10/28/00
Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
Prep Batch #....: 0312340
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	4.0 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	0.33 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.20 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001024-DN-04

www6 dup.

GC/MS Volatiles

Lot-Sample #....: A0J300112-004 Work Order #....: DN2BJ1AA Matrix.....: WG
 Date Sampled....: 10/24/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	8.2	0.50	ug/L
Acetone	2.7 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	0.97 J	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.63 J	1.0	ug/L
Vinyl chloride	1.9	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001024-DN-05

E23A

GC/MS Volatiles

Lot-Sample #: A0J300112-005 Work Order #: DN2EK1AA
 Date Sampled: 10/24/00 Date Received: 10/28/00
 Prep Date: 11/06/00 Analysis Date: 11/06/00
 Prep Batch #: 0312333 Method: SW846 8260B
 Dilution Factor: 1.57

Matrix: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	55	0.84	ug/L
Acetone	4.4 J,B	17	ug/L
Benzene	0.76 J	1.7	ug/L
Carbon tetrachloride	ND	1.7	ug/L
Chloroform	ND	1.7	ug/L
1,1-Dichloroethene	ND	1.7	ug/L
Ethylbenzene	ND	1.7	ug/L
Methylene chloride	0.64 J,B	1.7	ug/L
Tetrachloroethene	6.7	1.7	ug/L
Toluene	ND	1.7	ug/L
1,1,2-Trichloroethane	ND	1.7	ug/L
Trichloroethene	2.0	1.7	ug/L
Vinyl chloride	2.8	1.7	ug/L
Xylenes (total)	ND	1.7	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001024-DN-06

E22A

GC/MS Volatiles

Lot-Sample #....: A0J300112-006 Work Order #....: DN2EL1AA Matrix.....: WG
 Date Sampled....: 10/24/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.6 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	14	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	82	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S):

I Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001024-DN-07

FVDS

GC/MS Volatiles

Lot-Sample #....: A0J300112-007 Work Order #....: DN2EM1AA
 Date Sampled....: 10/24/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333
 Dilution Factor: 8.33 Method.....: SW846 8260B

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	58	8.3	ug/L
Carbon tetrachloride	ND	8.3	ug/L
Chloroform	ND	8.3	ug/L
cis-1,2-Dichloroethene	ND	4.2	ug/L
Acetone	13 J,B	83	ug/L
1,1-Dichloroethene	ND	8.3	ug/L
Ethylbenzene	180	8.3	ug/L
Methylene chloride	2.3 J,B	8.3	ug/L
Tetrachloroethene	3.5 J	8.3	ug/L
Toluene	34	8.3	ug/L
1,1,2-Trichloroethane	ND	8.3	ug/L
Trichloroethene	ND	8.3	ug/L
Vinyl chloride	ND	8.3	ug/L
Xylenes (total)	580	8.3	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	91	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001024-DN-08

E24A

GC/MS Volatiles

Lot-Sample #....: A0J300112-008 Work Order #....: DN2EN1AA Matrix.....: WG
 Date Sampled....: 10/24/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333 Method.....: SW846 8260B
 Dilution Factor: 2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	50	1.0	ug/L
Acetone	3.4 J,B	20	ug/L
Benzene	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
1,1-Dichloroethene	0.64 J	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Methylene chloride	0.68 J,B	2.0	ug/L
Tetrachloroethene	16	2.0	ug/L
Toluene	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Trichloroethene	2.7	2.0	ug/L
Vinyl chloride	9.1	2.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	83	(76 - 110)
Dibromofluoromethane	93	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-09

C2S.

GC/MS Volatiles

Lot-Sample #....: A0J300112-009 Work Order #....: DN2EP1AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	3.2 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.57 J	1.0	ug/L
1,1-Dichloroethene	0.34 J	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	7.1	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-10

R4D

GC/MS Volatiles

Lot-Sample #....: A0J300112-010 Work Order #....: DN2EQ1AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312340
 Dilution Factor: 2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	1.7	1.0	ug/L
Acetone	3.2 J,B	20	ug/L
Benzene	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Methylene chloride	1.0 J,B	2.0	ug/L
Tetrachloroethene	ND	2.0	ug/L
Toluene	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Trichloroethene	56	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-11

WS2

GC/MS Volatiles

Lot-Sample #....: A0J300112-011 Work Order #....: DN2ER1AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.4 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.2	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	84	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-12

W54

GC/MS Volatiles

Lot-Sample #....: A0J300112-012 Work Order #....: DN2ET1AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.1 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.38 J	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	87	(76 - 110)
Dibromofluoromethane	103	(73 - 122)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-13

W53A

GC/MS Volatiles

Lot-Sample #....: A0J300112-013 Work Order #....: DN2EV1AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	15	0.50	ug/L
Acetone	3.8 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	0.40 J	1.0	ug/L
Chloroform	0.37 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	12	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	82	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-13

GC/MS Semivolatiles

Lot-Sample #....: A0J300112-013 Work Order #....: DN2EV1AC Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 10/31/00 Analysis Date...: 11/12/00
 Prep Batch #....: 0305104
 Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
bis(2-Ethylhexyl) phthalate	12	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	80	(32 - 112)
2-Fluorobiphenyl	60	(30 - 110)
Terphenyl-d14	73	(10 - 144)
Phenol-d5	77	(10 - 113)
2-Fluorophenol	73	(13 - 110)
2,4,6-Tribromophenol	62	(21 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-14

C45

GC/MS Volatiles

Lot-Sample #....: A0J300112-014 Work Order #....: DN2EX1AA
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.8 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-14

GC/MS Semivolatiles

Lot-Sample #....: A0J300112-014 Work Order #....: DN2EX1AC Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 10/31/00 Analysis Date...: 11/12/00
 Prep Batch #....: 0305104
 Dilution Factor: 1 Method.....: SW846 '8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
bis(2-Ethylhexyl) phthalate	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78	(32 - 112)
2-Fluorobiphenyl	59	(30 - 110)
Terphenyl-d14	83	(10 - 144)
Phenol-d5	73	(10 - 113)
2-Fluorophenol	69	(13 - 110)
2,4,6-Tribromophenol	59	(21 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-15

R2D

GC/MS Volatiles

Lot-Sample #....: A0J300112-015 Work Order #....: DN2E01AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1.67 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.82 J	0.84	ug/L
Acetone	3.7 J,B	17	ug/L
Benzene	ND	1.7	ug/L
Carbon tetrachloride	ND	1.7	ug/L
Chloroform	ND	1.7	ug/L
1,1-Dichloroethene	ND	1.7	ug/L
Ethylbenzene	ND	1.7	ug/L
Methylene chloride	0.52 J,B	1.7	ug/L
Tetrachloroethene	ND	1.7	ug/L
Toluene	ND	1.7	ug/L
1,1,2-Trichloroethane	ND	1.7	ug/L
Trichloroethene	45	1.7	ug/L
Vinyl chloride	ND	1.7	ug/L
Xylenes (total)	ND	1.7	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-16

W55

GC/MS Volatiles

Lot-Sample #....: A0J300112-016 Work Order #....: DN2E11AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846-8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.29 J	0.50	ug/L
Acetone	1.6 J,B	10	ug/L
Benzene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	11	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	107	(73 - 122)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-17

WSS dup.

GC/MS Volatiles

Lot-Sample #....: A0J300112-017
Date Sampled....: 10/25/00
Prep Date.....: 11/07/00
Prep Batch #....: 0312340
Dilution Factor: 1

Work Order #....: DN2E21AA
Date Received...: 10/28/00
Analysis Date...: 11/07/00
Method.....: SW846 8260B

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.30 J	0.50	ug/L
Acetone	2.5 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	9.8	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	103	(73 - 122)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-18

W54

GC/MS Volatiles

Lot-Sample #....: A0J300112-018 Work Order #....: DN2E31AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.8 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.67 J	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	93	(73 - 122)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-19

mwlA

GC/MS Volatiles

Lot-Sample #....: 00300112-019 Work Order #....: DN2E61AA
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312040
 Dilution Factor: 1 Method.....: SW846 8260B

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.0 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 128)
Toluene-d8	84	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001025-DN-20

*Rinsate
mw1A*

GC/MS Volatiles

Lot-Sample #....: A0J300112-020 Work Order #....: DN2E71AA Matrix.....: WG
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	3.2 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.20 J,B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Toluene	0.15 J	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-21

R3D

GC/MS Volatiles

Lot-Sample #....: A0J300112-021 Work Order #....: DN2E81AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 83.33 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	11 J	42	ug/L
Acetone	84 J,B	830	ug/L
Benzene	ND	83	ug/L
Carbon tetrachloride	ND	83	ug/L
Chloroform	ND	83	ug/L
1,1-Dichloroethene	ND	83	ug/L
Ethylbenzene	ND	83	ug/L
Methylene chloride	33 J,B	83	ug/L
Tetrachloroethene	ND	83	ug/L
Toluene	ND	83	ug/L
1,1,2-Trichloroethane	ND	83	ug/L
Trichloroethene	1800	83	ug/L
Vinyl chloride	ND	83	ug/L
Xylenes (total)	ND	83	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-22

WSWD

GC/MS Volatiles

Lot-Sample #....: A0J300112-022 Work Order #....: DN2FA1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.20 J	0.50	ug/L
Acetone	1.9 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	1.3	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(61 - 128)
Toluene-d8	87	(76 - 110)
Dibromofluoromethane	107	(73 - 122)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-23

1WD

GC/MS Volatiles

Lot-Sample #....: A0J300112-023 Work Order #....: DN2FC1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.0 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.62 J	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-24

MW10A

GC/MS Volatiles

Lot-Sample #....: A0J300112-024 Work Order #....: DN2FD1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	1.4	0.50	ug/L
Acetone	2.1 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	3.4	1.0	ug/L
Vinyl chloride	7.4	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 128)
Toluene-d8	87	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-25

mwioB

GC/MS Volatiles

Lot-Sample #....: A0J300112-025 Work Order #....: DN2FE1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	2.0 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	1.2	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-26

C003

GC/MS Volatiles

Lot-Sample #....: A0J300112-026 Work Order #....: DN2FF1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	1.1	0.50	ug/L
Acetone	2.0 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.18 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	3.2	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	2.6	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	82	(76 - 110)
Dibromofluoromethane	104	(73 - 122)
4-Bromofluorobenzene	77	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-27

GC/MS Volatiles

CWB

Lot-Sample #....: A0J300112-027 Work Order #....: DN2FG1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0312340 Method.....: SW846 8260B
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.12 J	0.50	ug/L
Acetone	2.0 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	14	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	108	(73 - 122)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S) :

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-28

WCSA

GC/MS Volatiles

Lot-Sample #....: A0J300112-028 Work Order #....: DN2FH1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0313315
 Dilution Factor: 1.25 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	38	0.62	ug/L
Acetone	3.0 J,B	12	ug/L
Benzene	ND	1.2	ug/L
Carbon tetrachloride	ND	1.2	ug/L
Chloroform	ND	1.2	ug/L
1,1-Dichloroethene	ND	1.2	ug/L
Ethylbenzene	ND	1.2	ug/L
Methylene chloride	0.52 J,B	1.2	ug/L
Tetrachloroethene	30	1.2	ug/L
Toluene	ND	1.2	ug/L
1,1,2-Trichloroethane	ND	1.2	ug/L
Trichloroethene	9.7	1.2	ug/L
Vinyl chloride	0.96 J	1.2	ug/L
Xylenes (total)	ND	1.2	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-29

WC3B

GC/MS Volatiles

Lot-Sample #....: A0J300112-029 Work Order #....: DN2FJ1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0313315
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.45 J	0.50	ug/L
Acetone	2.3 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	0.78 J	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	90	(76 - 110)
Dibromofluoromethane	94	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-001026-DN-30

www4

GC/MS Volatiles

Lot-Sample #....: A0J300112-030 Work Order #....: DN2FK1AA Matrix.....: WG
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0313315
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.9 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.37 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	3.0	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #....: A0J300112-031 Work Order #....: DN2FL1AA Matrix.....: WQ
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0313315 Method.....: SW846 8260B
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	1.2 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.35 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.32 J,B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	84	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CLO024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence –

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0J300112 Work Order #....: DPGED1AC Matrix.....: WATER
 LCS Lot-Sample#: A0K070000-340
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312340
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	106	(63 - 130)	SW846 8260B
Trichloroethene	104	(75 - 122)	SW846 8260B
Benzene	97	(80 - 116)	SW846 8260B
Toluene	104	(74 - 119)	SW846 8260B
Chlorobenzene	105	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	91	(73 - 122)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0J300112 Work Order #....: DPGC51AC Matrix.....: WATER
 LCS Lot-Sample#: AOK070000-333
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	114	(63 - 130)	SW846 8260B
Trichloroethene	107	(75 - 122)	SW846 8260B
Benzene	98	(80 - 116)	SW846 8260B
Toluene	111	(74 - 119)	SW846 8260B
Chlorobenzene	113	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	91	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	77	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0J300112
 LCS Lot-Sample#: A0K080000-315
 Prep Date.....: 11/07/00
 Prep Batch #...: 0313315
 Dilution Factor: 1

Work Order #...: DPHXH1AC
 Analysis Date...: 11/07/00

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	111	(63 - 130)	SW846 8260B
Trichloroethene	101	(75 - 122)	SW846 8260B
Benzene	98	(80 - 116)	SW846 8260B
Toluene	109	(74 - 119)	SW846 8260B
Chlorobenzene	111	(76 - 117)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	92	(76 - 110)
Dibromofluoromethane	94	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: A0J300112 Work Order #....: DN3N61AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A0J310000-104 DN3N61AD-LCSD
 Prep Date.....: 10/31/00 Analysis Date...: 11/08/00
 Prep Batch #....: 0305104
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trichloro- benzene	71	(31 - 110)			SW846 8270C
	73	(31 - 110)	3.6	(0-37)	SW846 8270C
Acenaphthene	71	(39 - 118)			SW846 8270C
	76	(39 - 118)	7.3	(0-35)	SW846 8270C
2,4-Dinitrotoluene	74	(47 - 131)			SW846 8270C
	78	(47 - 131)	5.9	(0-32)	SW846 8270C
Pyrene	68	(46 - 130)			SW846 8270C
	69	(46 - 130)	0.65	(0-31)	SW846 8270C
N-Nitrosodi-n-propyl- amine	84	(30 - 115)			SW846 8270C
	82	(30 - 115)	3.3	(0-36)	SW846 8270C
1,4-Dichlorobenzene	63	(28 - 110)			SW846 8270C
	62	(28 - 110)	2.6	(0-36)	SW846 8270C
Pentachlorophenol	66	(10 - 140)			SW846 8270C
	69	(10 - 140)	4.3	(0-56)	SW846 8270C
Phenol	89	(10 - 131)			SW846 8270C
	86	(10 - 131)	2.8	(0-43)	SW846 8270C
2-Chlorophenol	83	(19 - 124)			SW846 8270C
	80	(19 - 124)	4.2	(0-43)	SW846 8270C
4-Chloro-3-methylphenol	85	(29 - 124)			SW846 8270C
	85	(29 - 124)	0.16	(0-55)	SW846 8270C
4-Nitrophenol	81	(19 - 144)			SW846 8270C
	85	(19 - 144)	4.9	(0-34)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	90	(32 - 112)
	92	(32 - 112)
2-Fluorobiphenyl	72	(30 - 110)
	77	(30 - 110)
Terphenyl-d14	82	(10 - 144)
	83	(10 - 144)
Phenol-d5	87	(10 - 113)
	85	(10 - 113)
2-Fluorophenol	77	(13 - 110)
	70	(13 - 110)
2,4,6-Tribromophenol	71	(21 - 122)
	76	(21 - 122)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: A0J300112 Work Order #....: DN3N61AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A0J310000-104 DN3N61AD-LCSD

SURROGATE

PERCENT
RECOVERY

RECOVERY
LIMITS

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0J300112
 MB Lot-Sample #: A0K070000-340
 Analysis Date...: 11/06/00
 Dilution Factor: 1

Work Order #....: DPGED1AA
 Prep Date.....: 11/06/00
 Prep Batch #....: 0312340

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	0.94 J	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.36 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	88	(76 - 110)
Dibromofluoromethane	94	(73 - 122)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0J300112
MB Lot-Sample #: A0K070000-333

Work Order #....: DPGC51AA

Matrix.....: WATER

Analysis Date...: 11/06/00
Dilution Factor: 1

Prep Date.....: 11/06/00

Prep Batch #....: 0312333

PARAMETER	RESULT	LIMIT	UNITS	METHOD
Acetone	1.1 J	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	1.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
1,2-Dichloroethane-d4	103	(61 - 128)		
Toluene-d8	84	(76 - 110)		
Dibromofluoromethane	102	(73 - 122)		
4-Bromofluorobenzene	80	(74 - 116)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0J300112
MB Lot-Sample #: A0K080000-315

Work Order #...: DPHXH1AA

Matrix.....: WATER

Analysis Date...: 11/07/00
Dilution Factor: 1

Prep Date.....: 11/07/00
Prep Batch #...: 0313315

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	1.3 J	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.26 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	83	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	82	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A00300112
 MB Lot-Sample #: A00310000-104
 Analysis Date...: 11/08/00
 Dilution Factor: 1

Work Order #...: DN3N61AA
 Prep Date.....: 10/31/00
 Prep Batch #...: 0305104

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	89	(32 - 112)
2-Fluorobiphenyl	66	(30 - 110)
Terphenyl-d14	82	(10 - 144)
Phenol-d5	82	(10 - 113)
2-Fluorophenol	72	(13 - 110)
2,4,6-Tribromophenol	63	(21 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0J300112 Work Order #...: DN2FH1AE-MS Matrix.....: WG
 MS Lot-Sample #: A0J300112-028 DN2FH1AF-MSD
 Date Sampled...: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #...: 0312340
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	110	(62 - 130)			SW846 8260B
	116	(62 - 130)	5.0	(0-20)	SW846 8260B
Trichloroethene	95	(62 - 130)			SW846 8260B
	104	(62 - 130)	5.4	(0-20)	SW846 8260B
Benzene	98	(76 - 118)			SW846 8260B
	100	(76 - 118)	2.1	(0-20)	SW846 8260B
Toluene	110	(70 - 119)			SW846 8260B
	109	(70 - 119)	0.41	(0-20)	SW846 8260B
Chlorobenzene	112	(76 - 117)			SW846 8260B
	113	(76 - 117)	1.4	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 128)
	96	(61 - 128)
Toluene-d8	92	(76 - 110)
	89	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
	96	(73 - 122)
4-Bromofluorobenzene	75	(74 - 116)
	76	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0J300112 Work Order #....: DN2E31AC-MS Matrix.....: WG
 MS Lot-Sample #: A0J300112-018 DN2E31AD-MSD
 Date Sampled....: 10/25/00 Date Received...: 10/28/00
 Prep Date.....: 11/06/00 Analysis Date...: 11/06/00
 Prep Batch #....: 0312333
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	109	(62 - 130)			SW846 8260B
	108	(62 - 130)	0.29	(0-20)	SW846 8260B
Trichloroethene	106	(62 - 130)			SW846 8260B
	107	(62 - 130)	0.73	(0-20)	SW846 8260B
Benzene	99	(76 - 118)			SW846 8260B
	98	(76 - 118)	0.24	(0-20)	SW846 8260B
Toluene	105	(70 - 119)			SW846 8260B
	106	(70 - 119)	0.93	(0-20)	SW846 8260B
Chlorobenzene	108	(76 - 117)			SW846 8260B
	107	(76 - 117)	0.40	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
	103	(61 - 128)
Toluene-d8	86	(76 - 110)
	88	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
	93	(73 - 122)
4-Bromofluorobenzene	80	(74 - 116)
	84	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0J300112 Work Order #....: DN2FH1AC-MS Matrix.....: WG
 MS Lot-Sample #: A0J300112-028 DN2FH1AD-MSD
 Date Sampled....: 10/26/00 Date Received...: 10/28/00
 Prep Date.....: 11/07/00 Analysis Date...: 11/07/00
 Prep Batch #....: 0313315
 Dilution Factor: 1.25

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	115	(62 - 130)			SW846 8260B
	120	(62 - 130)	4.2	(0-20)	SW846 8260B
Trichloroethene	117	(62 - 130)			SW846 8260B
	113	(62 - 130)	2.9	(0-20)	SW846 8260B
Benzene	105	(76 - 118)			SW846 8260B
	104	(76 - 118)	1.2	(0-20)	SW846 8260B
Toluene	118	(70 - 119)			SW846 8260B
	113	(70 - 119)	3.8	(0-20)	SW846 8260B
Chlorobenzene	118 a	(76 - 117)			SW846 8260B
	113	(76 - 117)	4.4	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 128)
	91	(61 - 128)
Toluene-d8	92	(76 - 110)
	91	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
	94	(73 - 122)
4-Bromofluorobenzene	75	(74 - 116)
	78	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

STL North Canton
Quanteria

REFERENCE NUMBER:

#3978

SAMPLER'S
SIGNATURE:

[Signature]

(351)

PRINTED

NAME:

Mitch Olson

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	10/25/00		W-001025-DN-18 MS/MSD	water	9	X	
			-19		3	X	
			-20		3	X	
	10/26/00		W-001026-DN-21		3	X	
			-22		3	X	
			-23		3	X	
			-24		3	X	
			-25		3	X	
			-26		3	X	
			-27		3	X	
			-28 MS/MSD		9	X	
			-29		3	X	
			-30		3	X	
			Trip Blanks		2		
			Temp Blanks		1		

TOTAL NUMBER OF CONTAINERS

54

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

①

[Signature]

DATE: 10/27/00

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex

WAY BILL No.

White
Yellow
Pink
Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

D. Shield, M. Olson

RECEIVED FOR LABORATORY BY:

[Signature]

No 02874

DATE: 10/28/00 TIME: 9:00/A

1001 JULY 19/93 REV.0 (F-42)

STL North Canton

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612) 639-0913

SHIPPED TO (Laboratory Name):

STL North Canton
Quanterra

REFERENCE NUMBER:

3978 (Wassau)

RECEIVED

NOV 28 2000

CRA, INC.

SAMPLER'S
SIGNATURE:

[Signature]

PRINTED

NAME: *Mitch Olson*

No. OF
CONTAINERS

PARAMETERS

Site Vial

bis(2-ethylhexyl)phthalate

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	10/24/00		W-001024-DN-01	Water	3	X	
			-02		3	X	
			-03		3	X	
			-04		3	X	
			-05		3	X	
			-06		3	X	
			-07		3	X	
			-08		3	X	
	10-25		W-001025-DN-09		3	X	
			-10		3	X	
			-11		3	X	
			-12		3	X	
			-13		5	X X	
			-14		5	X X	
			-15		3	X	
			-16		3	X	
			-17		3	X	

Questions, contact
Grant Anderson
(651) 639-0913

TOTAL NUMBER OF CONTAINERS

55

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

① *[Signature]*

DATE: 10/27/00

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex

WAY BILL No.

White
Yellow
Pink
Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

D. Shield

M. Olson

RECEIVED FOR LABORATORY BY:

Derry Burns

DATE: 10/28/00 TIME: 9:50/A

No 02873

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

STL - North Canton
Quanterra

REFERENCE NUMBER:

#3978

SAMPLER'S
SIGNATURE:

Ruthell Olson

PRINTED

NAME: *Mitch Olson*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	10/25/00		W-001025-DN-18 MS/MSD	water	9	X	
			-19		3	X	
			-20		3	X	
	10/26/00		W-001026-DN-21		3	X	
			-22		3	X	
			-23		3	X	
			-24		3	X	
			-25		3	X	
			-26		3	X	
			-27		3	X	
			-28 MS/MSD		9	X	
			-29		3	X	
			-30		3	X	
			Trip Blanks		2		
			Temp Blank		1		
TOTAL NUMBER OF CONTAINERS					54	HEALTH/CHEMICAL HAZARDS	

RELINQUISHED BY:

①

Ruthell Olson

DATE: 10/27/00

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex

WAY BILL No.

White
Yellow
Pink
Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

D. Shield, M. Olson

RECEIVED FOR LABORATORY BY:

Derry Burns

DATE: 10/28/00 TIME: 9:50/A

No 02874

CHAIN OF CUSTODY RECORD

CRA CONESTOGA-ROVERS & ASSOCIATES 1801 OLD HWY. 8, SUITE 114 ST. PAUL, MN 55112 (612)639-0913	SHIPPED TO (Laboratory Name): STL North Canton Quincy	REFERENCE NUMBER: 178 (W... ..)
---	---	---

SAMPLER'S SIGNATURE:		PRINTED NAME:		No. OF CONTAINERS		PARAMETERS										REMARKS	
<i>[Signature]</i>		Mitch Olson		55		Site Vol 6, 5(2-ethylhexyl)phthalate										(Questions, contact Grant Anderson @ (612)639-0913	
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE													
	10/24/00		W-001024-DN-01 (R)E27A	Water	3	X											
			-02 E37A		3	X											
			-03 WW 6		3	X											
			-04 WW 6 (dup)		3	X											
			-05 E23A		3	X											
			-06 E22A		3	X											
			-07 FV05		3	X											
			-08 E24A		3	X											
	10-25		W-001025-DN-09 C25		3	X											
			-10 R4D		3	X											
			-11 W52		3	X											
			-12 W54		3	X											
			-13 W53A		5	X	X										
			-14 C45		5	X	X										
			-15 R2D		3	X											
			-16 W55		3	X											
			-17 W55 (dup)		3	X											
TOTAL NUMBER OF CONTAINERS					55	HEALTH/CHEMICAL HAZARDS											

RELINQUISHED BY: ① <i>[Signature]</i>	DATE: 10/27/00	RECEIVED BY: ② _____	DATE: _____
RELINQUISHED BY: ② _____	DATE: _____	RECEIVED BY: ③ _____	DATE: _____
RELINQUISHED BY: ③ _____	DATE: _____	RECEIVED BY: ④ _____	DATE: _____

METHOD OF SHIPMENT: <i>F.O.D.</i>		WAY BILL No. _____	
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy	SAMPLE TEAM: <i>D. Shield</i> <i>M. Olson</i>	RECEIVED FOR LABORATORY BY: NO 02873 DATE: _____ TIME: _____	

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612)639-0913

SHIPPED TO (Laboratory Name):

St. Louis County Health Dept

REFERENCE NUMBER:

3975

SAMPLER'S
SIGNATURE:

[Signature]

PRINTED
NAME:

A. L. Olson

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	<i>10/13/93</i>		<i>W-101025-DW-18</i>	<i>M. 14.0 W56</i>	<i>1</i>	<i>X</i>	
			<i>-19</i>	<i>MW1A</i>	<i>1</i>	<i>X</i>	
			<i>-20</i>	<i>MW1A (rms)</i>	<i>1</i>	<i>X</i>	
	<i>10/13/93</i>		<i>W-101026-DW-21</i>	<i>R3D</i>	<i>1</i>	<i>X</i>	
			<i>-22</i>	<i>WSWD</i>	<i>1</i>	<i>X</i>	
			<i>-23</i>	<i>IWD</i>	<i>1</i>	<i>X</i>	
			<i>-24</i>	<i>MW1DA</i>	<i>1</i>	<i>X</i>	
			<i>-25</i>	<i>MW1DB</i>	<i>1</i>	<i>X</i>	
			<i>-26</i>	<i>CW3</i>	<i>1</i>	<i>X</i>	
			<i>-27</i>	<i>CW6</i>	<i>1</i>	<i>X</i>	
			<i>-28</i>	<i>MW1A W3A</i>	<i>1</i>	<i>X</i>	
			<i>-29</i>	<i>WC3B</i>	<i>1</i>	<i>X</i>	
			<i>-30</i>	<i>WW4</i>	<i>1</i>	<i>X</i>	
			<i>Temp. 10/13/93</i>		<i>1</i>		
			<i>Temp. 10/13/93</i>		<i>1</i>		

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

①

DATE: *10/13/93*
TIME:

RECEIVED BY:

②

DATE:
TIME:

RELINQUISHED BY:

②

DATE:
TIME:

RECEIVED BY:

③

DATE:
TIME:

RELINQUISHED BY:

③

DATE:
TIME:

RECEIVED BY:

④

DATE:
TIME:

METHOD OF SHIPMENT:

Feet 5'

WAY BILL No.

White
Yellow
Pink
Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

D. Smith, A. Olson

RECEIVED FOR LABORATORY BY:

NS 02674

DATE: TIME:

APPENDIX B

EXTRACTION WELL (EW1) LABORATORY RESULTS

MN FILE COPY

3978



Quanterra
4101 Shuffel Drive, NW
North Canton, Ohio 44720-6961

330 497-9396 Telephone
330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
D75N6	A0A060224-001	W000104-MT-392
D75NA	A0A060224-002	W000104-MT-393

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

January 27, 2000

*CLX rec'd
1-28-00*

CASE NARRATIVE

The following report contains the analytical results for two water samples submitted to Quanterra-North Canton by Conestoga-Rovers & Associates, Inc., project number 3978. The samples were received January 5, 2000, according to documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on January 18, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

METALS

Matrix spike/duplicate spike recoveries were outside the acceptance limits for some analytes. The acceptable laboratory control sample analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference. See the Matrix Spike Report for the affected analytes which have been flagged with N.

ANALYTICAL METHODS SUMMARY

AOA060224

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

000002

SAMPLE SUMMARY

A0A060224

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D75N6	001	W000104-MT-392	01/04/00	10:30
D75NA	002	W000104-MT-393	01/04/00	10:30

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000003

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-392

Influent

GC/MS Volatiles

Lot-Sample #....: A0A060224-001 Work Order #....: D75N6101 Matrix.....: WATER
 Date Sampled....: 01/04/00 10:30 Date Received...: 01/05/00
 Prep Date.....: 01/12/00 Analysis Date...: 01/12/00
 Prep Batch #....: 0013110
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.66	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	0.083 J,B	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	1.1	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	1.4 B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	21	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 140)
Toluene-d8	91	(84 - 112)
Bromofluorobenzene	90	(75 - 122)
Dibromofluoromethane	98	(77 - 127)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

000004

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-393 *Effluent*

GC/MS Volatiles

Lot-Sample #....: A0A060224-002 Work Order #....: D75NA106 Matrix.....: WATER
 Date Sampled....: 01/04/00 10:30 Date Received...: 01/05/00
 Prep Date.....: 01/11/00 Analysis Date...: 01/11/00
 Prep Batch #....: 0012259
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.39 J	0.50	ug/L
Acetone	1.9 J,B	10	ug/L
Benzene	0.17 J,B	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	4.1	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	1.7 B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.067 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	11	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(64 - 140)
Toluene-d8	94	(84 - 112)
Bromofluorobenzene	90	(75 - 122)
Dibromofluoromethane	103	(77 - 127)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

000005

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-393

DISSOLVED Metals

Lot-Sample #....: A0A060224-002

Matrix.....: WATER

Date Sampled....: 01/04/00 10:30 Date Received...: 01/05/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0007112						
Barium	ND	200	ug/L	SW846 6010B	01/07-01/10/00	D75NA101
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	01/07-01/10/00	D75NA105
		Dilution Factor: 1				
Iron	2140	100	ug/L	SW846 6010B	01/07-01/10/00	D75NA102
		Dilution Factor: 1				
Manganese	1030	15.0	ug/L	SW846 6010B	01/07-01/10/00	D75NA103
		Dilution Factor: 1				
Zinc	43.7	20.0	ug/L	SW846 6010B	01/07-01/10/00	D75NA104
		Dilution Factor: 1				

000006

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-393

General Chemistry

Lot-Sample #...: A0A060224-002 Work Order #...: D75NA Matrix.....: WATER
Date Sampled...: 01/04/00 10:30 Date Received...: 01/05/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	6.8		No Units	MCAWW 150.1	01/05/00	0005450

Dilution Factor: 1

000007

QUALITY CONTROL SECTION

000008

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

* for analyses run on TJA Trace ICP or GFAA only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

Quanterra Incorporated – North Canton Facility, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D7APG102 Matrix.....: WATER
 LCS Lot-Sample#: A0A120000-259
 Prep Date.....: 01/11/00 Analysis Date...: 01/11/00
 Prep Batch #....: 0012259
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	103	(63 - 130)	SW846 8260B
Trichloroethene	96	(75 - 122)	SW846 8260B
Benzene	99	(80 - 116)	SW846 8260B
Toluene	103	(74 - 119)	SW846 8260B
Chlorobenzene	99	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	95	(76 - 109)
Bromofluorobenzene	90	(74 - 116)
Dibromofluoromethane	95	(73 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D7CJ4102 Matrix.....: WATER
 LCS Lot-Sample#: A0A130000-110
 Prep Date.....: 01/12/00 Analysis Date...: 01/12/00
 Prep Batch #...: 0013110
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	93	(63 - 130)	SW846 8260B
Trichloroethene	98	(75 - 122)	SW846 8260B
Benzene	92	(80 - 116)	SW846 8260B
Toluene	98	(74 - 119)	SW846 8260B
Chlorobenzene	97	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	87	(61 - 128)
Toluene-d8	91	(76 - 109)
Bromofluorobenzene	88	(74 - 116)
Dibromofluoromethane	92	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0A060224

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A0A070000-112 Prep Batch #....: 0007112					
Barium	98	(83 - 113)	SW846 6010B	01/07-01/10/00	D766411T
		Dilution Factor: 1			
Iron	111	(77 - 127)	SW846 6010B	01/07-01/10/00	D766411U
		Dilution Factor: 1			
Manganese	103	(81 - 115)	SW846 6010B	01/07-01/10/00	D766411V
		Dilution Factor: 1			
Zinc	105	(83 - 122)	SW846 6010B	01/07-01/10/00	D766411W
		Dilution Factor: 1			
Chromium	102	(82 - 115)	SW846 6010B	01/07-01/10/00	D766411X
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0A060224
 MB Lot-Sample #: A0A120000-259
 Analysis Date...: 01/11/00
 Dilution Factor: 1

Work Order #....: D7APG101
 Prep Date.....: 01/11/00
 Prep Batch #....: 0012259

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Acetone	1.1 J	10	ug/L	SW846 8260B
Benzene	0.13 J	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.13 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
1,2-Dichloroethane-d4	104		(61 - 128)	
Toluene-d8	93		(76 - 109)	
Bromofluorobenzene	92		(74 - 116)	
Dibromofluoromethane	99		(73 - 122)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0A060224
MB Lot-Sample #: A0A130000-110

Work Order #...: D7CJ4101

Matrix.....: WATER

Analysis Date...: 01/12/00
Dilution Factor: 1

Prep Date.....: 01/12/00

Prep Batch #...: 0013110

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	0.25 J	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.11 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	91	(76 - 109)
Bromofluorobenzene	91	(74 - 116)
Dibromofluoromethane	94	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: A0A060224

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0A070000-112 Prep Batch #....: 0007112						
Barium	ND	200	ug/L	SW846 6010B	01/07-01/10/00	D7664114
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	01/07-01/10/00	D7664118
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	01/07-01/10/00	D7664115
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	01/07-01/10/00	D7664116
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	01/07-01/10/00	D7664117
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D75GW114-MS Matrix.....: WATER
 MS Lot-Sample #: A0A060208-001 D75GW115-MSD
 Date Sampled...: 01/05/00 13:30 Date Received...: 01/06/00
 Prep Date.....: 01/11/00 Analysis Date...: 01/11/00
 Prep Batch #....: 0012259
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	108	(62 - 130)			SW846 8260B
	107	(62 - 130)	0.85	(0-17)	SW846 8260B
Trichloroethene	101	(62 - 130)			SW846 8260B
	103	(62 - 130)	2.1	(0-14)	SW846 8260B
Benzene	103	(76 - 118)			SW846 8260B
	105	(76 - 118)	2.0	(0-14)	SW846 8260B
Toluene	110	(70 - 119)			SW846 8260B
	113	(70 - 119)	2.3	(0-16)	SW846 8260B
Chlorobenzene	105	(76 - 117)			SW846 8260B
	107	(76 - 117)	1.7	(0-15)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
	98	(61 - 128)
Toluene-d8	97	(76 - 109)
	97	(76 - 109)
Dibromofluoromethane	98	(73 - 122)
	97	(73 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D76GA10C-MS Matrix.....: WATER
 MS Lot-Sample #: A0A070136-001 D76GA10D-MSD
 Date Sampled...: 01/05/00 13:00 Date Received...: 01/07/00
 Prep Date.....: 01/12/00 Analysis Date...: 01/12/00
 Prep Batch #....: 0013110
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(62 - 130)			SW846 8260B
	96	(62 - 130)	0.41	(0-17)	SW846 8260B
Toluene	99	(70 - 119)			SW846 8260B
	97	(70 - 119)	1.2	(0-16)	SW846 8260B
Trichloroethene	96	(62 - 130)			SW846 8260B
	96	(62 - 130)	0.26	(0-14)	SW846 8260B
Benzene	96	(76 - 118)			SW846 8260B
	93	(76 - 118)	2.1	(0-14)	SW846 8260B
Chlorobenzene	96	(76 - 117)			SW846 8260B
	97	(76 - 117)	0.34	(0-15)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
	90	(61 - 128)
Toluene-d8	93	(76 - 109)
	91	(76 - 109)
Dibromofluoromethane	95	(73 - 122)
	91	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0A060224

Matrix.....: WATER

Date Sampled....: 01/05/00 16:00 Date Received...: 01/06/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0A060229-001 Prep Batch #...: 0007112						
Barium	90	(80 - 120)		SW846 6010B	01/07-01/10/00	D75Q112K
	100	(80 - 120)	11 (0-20)	SW846 6010B	01/07-01/10/00	D75Q112L
Dilution Factor: 1						
Iron	67 N	(80 - 120)		SW846 6010B	01/07-01/10/00	D75Q112N
	123 N	(80 - 120)	13 (0-20)	SW846 6010B	01/07-01/10/00	D75Q112P
Dilution Factor: 1						
Manganese	95	(80 - 120)		SW846 6010B	01/07-01/10/00	D75Q112R
	108	(80 - 120)	11 (0-20)	SW846 6010B	01/07-01/10/00	D75Q112T
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

000019

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A0A060224

Work Order #....: D748F-SMP
D748F-DUP

Matrix.....: WATER

Date Sampled....: 01/04/00 10:00 Date Received...: 01/05/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.1	7.1	No Units	0.14	(0-20)	SD Lot-Sample #: A0A050207-001	01/05/00	0005450
Dilution Factor: 1								



QUA-4124

Client

MARATHON ELE. MFG. CORP

Address
100 E RANDOLPH ST.

City WALSALL

Project Name REF 3978

Contract/Purchase Order/Quote No.

Project Manager

WALLY MATTHEWSON #120

Telephone Number (Area Code)/Fax Number
715-675-3359 EXT 4338

Site Contact

WALLY MATSON

Carrier/Waybill Number

Date

01-04-00

Lab Number

Chain Of Custody Number

Number
01915

Page 1 of 1

Analysis

[illegible]

Special Instructions

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison 'B' ☐ Unknown

Turn Around Time Required

☐ Normal ☐ Rush

1. Relinquished By Marlin Shust

2. Relinquished By:

3. Relinquished By

Comments

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Project Specific (Specify)

QC Level	
----------	--

☐ I. ☐ II. ☐ III.

Date	Time
01-04-00	10:30 AM

Date	Time
------	------

Date	Time
------	------

1. Received By	
----------------	--

Date _____ **Time** _____

2. Received By	
----------------	--

Date	Time
------	------

3. Received By	
----------------	--

Date	Time	SL
1-5-00	9:45	1500
	10:30 AM	

~~CONTRIBUTOR WHITE - [REDACTED] with Report; CANARY - Returned to Client with Report; PINK - Field Copy~~

3978.10



Quanterra
4101 Shuffel Drive, NW
North Canton, Ohio 44720-6961

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330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
D85EX	A0B020221-001	W000201-MT-394
D85F2	A0B020221-002	W000201-MT-395
D85F6	A0B020221-003	TRIP BLANK

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

February 18, 2000

CRA rec'd
2-19-00

CASE NARRATIVE

The following report contains the analytical results for two water samples and one quality control sample submitted to Severn Trent Laboratories, Inc. (STL), formerly Quanterra Incorporated North Canton, by Conestoga-Rovers & Associates, Inc., project number 3978. The samples were received February 2, 2000, according to documented sample acceptance procedures.

STL-North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on February 14, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Sample Trip Blank was received at the laboratory but not listed on the chain-of-custody. It was analyzed per the sample label.

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

The pH of samples MT-394 and MT-395 was greater than 2. The samples were analyzed within the normal 14-day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably Benzene, Toluene, and Ethylbenzene, are susceptible to biological degradation if the samples are not preserved to a pH of 2.

ANALYTICAL METHODS SUMMARY

A0B020221

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0B020221

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D85EX	001	W000201-MT-394	02/01/00	09:30
D85F2	002	W000201-MT-395	02/01/00	09:30
D85F6	003	TRIP BLANK	02/01/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000201-MT-394

Influent

GC/MS Volatiles

Lot-Sample #....: A0B020221-001 Work Order #....: D85EX101
 Date Sampled....: 02/01/00 09:30 Date Received...: 02/02/00
 Prep Date.....: 02/04/00 Analysis Date...: 02/04/00
 Prep Batch #....: 0036102
 Dilution Factor: 1 Method.....: SW846 8260B

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.78	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	1.1	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	19	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	97	(76 - 109)
Dibromofluoromethane	111	(73 - 122)
4-Bromofluorobenzene	106	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000201-MT-395

Eggplant

GC/MS Volatiles

Lot-Sample #....: A0B020221-002 Work Order #....: D85F2101
 Date Sampled....: 02/01/00 09:30 Date Received...: 02/02/00
 Prep Date.....: 02/04/00 Analysis Date...: 02/04/00
 Prep Batch #....: 0036102
 Dilution Factor: 1 Method.....: SW846 8260B

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.51	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	3.4	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.065 J,B	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	10	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	102	(76 - 109)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	108	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000201-MT-395

DISSOLVED Metals

Matrix.....: WATER

Lot-Sample #....: A0B020221-002

Date Sampled....: 02/01/00 09:30 Date Received...: 02/02/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0039384						
Barium	ND	200	ug/L	SW846 6010B	02/09-02/10/00	D85F2102
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	02/09-02/10/00	D85F2106
		Dilution Factor: 1				
Iron	1830	100	ug/L	SW846 6010B	02/09-02/10/00	D85F2103
		Dilution Factor: 1				
Manganese	922	15.0	ug/L	SW846 6010B	02/09-02/10/00	D85F2104
		Dilution Factor: 1				
Zinc	36.9	20.0	ug/L	SW846 6010B	02/09-02/10/00	D85F2105
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000201-MT-395

General Chemistry

Lot-Sample #....: A0B020221-002 Work Order #....: D85F2 Matrix.....: WATER
Date Sampled....: 02/01/00 09:30 Date Received...: 02/02/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	7.3		No Units	MCAWW 150.1	02/02/00	0033432

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: A0B020221-003 Work Order #....: D85F6101 Matrix.....: WATER
 Date Sampled....: 02/01/00 Date Received...: 02/02/00
 Prep Date.....: 02/04/00 Analysis Date...: 02/04/00
 Prep Batch #....: 0036102 Method.....: SW846 8260B
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.24 J,B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.11 J,B	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	104	(76 - 109)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	104	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

Quanterra Incorporated – North Canton Facility, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0B020221
 LCS Lot-Sample#: A0B050000-102
 Prep Date.....: 02/04/00
 Prep Batch #....: 0036102
 Dilution Factor: 1

Work Order #....: D88EV102
 Analysis Date...: 02/04/00

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	101	(63 - 130)	SW846 8260B
Trichloroethene	102	(75 - 122)	SW846 8260B
Benzene	109	(80 - 116)	SW846 8260B
Toluene	108	(74 - 119)	SW846 8260B
Chlorobenzene	108	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	102	(76 - 109)
Dibromofluoromethane	105	(73 - 122)
4-Bromofluorobenzene	105	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0B020221

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B080000-384 Prep Batch #....: 0039384					
Barium	100	(83 - 113)	SW846 6010B	02/09-02/10/00	D8C18115
		Dilution Factor: 1			
Iron	115	(77 - 127)	SW846 6010B	02/09-02/10/00	D8C18116
		Dilution Factor: 1			
Manganese	104	(81 - 115)	SW846 6010B	02/09-02/10/00	D8C18117
		Dilution Factor: 1			
Zinc	103	(83 - 122)	SW846 6010B	02/09-02/10/00	D8C18118
		Dilution Factor: 1			
Chromium	102	(82 - 115)	SW846 6010B	02/09-02/10/00	D8C18119
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0B020221
MB Lot-Sample #: A0B050000-102

Work Order #....: D88EV101

Matrix.....: WATER

Analysis Date...: 02/04/00
Dilution Factor: 1

Prep Date.....: 02/04/00
Prep Batch #....: 0036102

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	0.066 J	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.19 J	1.0	ug/L	SW846 8260B
Toluene	0.082 J	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	103	(76 - 109)
Dibromofluoromethane	104	(73 - 122)
4-Bromofluorobenzene	108	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: A0B020221

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0B080000-384 Prep Batch #....: 0039384						
Barium	ND	200	ug/L	SW846 6010B	02/09-02/10/00	D8C1810V
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	02/09-02/10/00	D8C18111
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	02/09-02/10/00	D8C1810W
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	02/09-02/10/00	D8C1810X
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	02/09-02/10/00	D8C18110
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0B020221 Work Order #....: D80XC102-MS Matrix.....: WATER
 MS Lot-Sample #: A0A280189-010 D80XC103-MSD
 Date Sampled....: 01/26/00 16:30 Date Received...: 01/28/00
 Prep Date.....: 02/04/00 Analysis Date...: 02/04/00
 Prep Batch #....: 0036102
 Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	100	(62 - 130)			SW846 8260B
	110	(62 - 130)	9.7	(0-20)	SW846 8260B
Trichloroethene	105	(62 - 130)			SW846 8260B
	112	(62 - 130)	6.7	(0-20)	SW846 8260B
Benzene	111	(76 - 118)			SW846 8260B
	116	(76 - 118)	4.6	(0-20)	SW846 8260B
Toluene	104	(70 - 119)			SW846 8260B
	113	(70 - 119)	8.0	(0-20)	SW846 8260B
Chlorobenzene	104	(76 - 117)			SW846 8260B
	110	(76 - 117)	5.2	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
	93	(61 - 128)
Toluene-d8	103	(76 - 109)
	104	(76 - 109)
Dibromofluoromethane	106	(73 - 122)
	104	(73 - 122)
4-Bromofluorobenzene	107	(74 - 116)
	108	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0B020221

Matrix.....: WATER

Date Sampled...: 02/01/00 12:00 Date Received...: 02/01/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0B020205-001 Prep Batch #....: 0039384						
Barium	93	(80 - 120)		SW846 6010B	02/09-02/10/00	D857V11E
	95	(80 - 120)	1.9 (0-20)	SW846 6010B	02/09-02/10/00	D857V11F
		Dilution Factor: 1				
Chromium	97	(80 - 120)		SW846 6010B	02/09-02/10/00	D857V11T
	99	(80 - 120)	2.1 (0-20)	SW846 6010B	02/09-02/10/00	D857V11U
		Dilution Factor: 1				
Iron	104	(80 - 120)		SW846 6010B	02/09-02/10/00	D857V11H
	107	(80 - 120)	1.7 (0-20)	SW846 6010B	02/09-02/10/00	D857V11J
		Dilution Factor: 1				
Manganese	98	(80 - 120)		SW846 6010B	02/09-02/10/00	D857V11L
	99	(80 - 120)	1.4 (0-20)	SW846 6010B	02/09-02/10/00	D857V11M
		Dilution Factor: 1				
Zinc	98	(80 - 120)		SW846 6010B	02/09-02/10/00	D857V11P
	99	(80 - 120)	0.44 (0-20)	SW846 6010B	02/09-02/10/00	D857V11Q
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B020221

Work Order #...: D85F2-SMP
D85F2-DUP

Matrix.....: WATER

Date Sampled....: 02/01/00 09:30 Date Received...: 02/02/00

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)					SD Lot-Sample #:	A0B020221-002	
7.3	7.3	No Units	0.27	(0-20)	MCAWW 150.1	02/02/00	0033432
		Dilution Factor: 1					



Client: MARATHON ELEC MFG. CORP

Address 100 E RANDOLPH ST.

City	State	Zip
DAUSAN	W	54401

Project Name REF 3978

Contract/Purchase Order/Quote No.

Project Manager
WAYNE MATTHEWSON # 120

Telephone Number (Area Code)/Fax Number
715-625-3359 - 4338

Site Contact WALLY MATTHEWSON

Carrier/Waybill Number

Date 02-01-00

Lab Number

Chain Of Custody Number 5544C

Page 1 of 1

Analysis

[illegible]

Special Instructions

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

QC Level

Turn Around Time Required

☐ Normal ☐ Rush

1. Relinquished By Martin J. Trost

2. Relinquished By

3. Relinquished By

Sample Disposal

☐ **Return To Client**☐ **Disposal By Lab**☐ Archive For _____ Months

Project Specific (Specify)

Received By

2. Received By

3. Received By	
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Date 2-2-00 Time 10:00

Date	Time
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Date _____ **Time** _____

Comments

CONFIDENTIAL - Returned to Client with Report; PINK - Field Copy

Quanterra

FEB 21 2000
CRA, INC.

MARATHON ELEC MFG. CORP			Project Manager WALLY MATISON # 120		Date 02-01-80		Chain Of Custody Number 55440																	
address 100 E RANDOLPH ST.			Telephone Number (Area Code)/Fax Number 715-675-3359 - 4338		Lab Number		Page 1 of 1																	
City WAUSAU		State W	Zip Code 54401	Site Contact WALLY MATISON		<table border="1"> <thead> <tr> <th colspan="8">Analysis</th> </tr> </thead> <tbody> <tr> <td>06/15</td> <td>TAH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Analysis								06/15	TAH						
Analysis																								
06/15	TAH																							
Project Name REF 3978				Carrier/Waybill Number																				
Contract/Purchase Order/Quote No.																								

[illegible]

Special Instructions

Possible Hazard Identification		Sample Disposal	
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B
☐ Unknown	☐ Return To Client		
☐ Disposal By Lab		☐ Archive For _____ Months	
Turn Around Time Required		Project Specific (Specify)	
☐ Normal	☐ Rush	QC Level	
☐ I. ☐ II. ☐ III.		1. Received By	
1. Relinquished By		Date	
2. Relinquished By		Time	
3. Relinquished By		Date	
		Time	

Comments

DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client with Report; PINK - Field Copy

3978-10



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Quanterra
4101 Shuffel Drive, NW
North Canton, Ohio 44720-6961

330 497-9396 Telephone
330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU SUPERFUND

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
D96W4	A0C020144-001	W000301-RR-396
D96W5	A0C020144-002	W000301-RR-397

*CRA rec'd
3-16-00*

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

March 15, 2000

CASE NARRATIVE

The following report contains the analytical results for two water samples submitted to Severn Trent Laboratories, Inc. (STL), formerly Quanterra Incorporated North Canton, by Conestoga-Rovers & Associates, Inc. from the Wausau Superfund Site, project number 3978. The samples were received March 2, 2000, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on March 14, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

ANALYTICAL METHODS SUMMARY

AOC020144

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0C020144

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D96W4	001	W000301-RR-396	03/01/00	11:30
D96W5	002	W000301-RR-397	03/01/00	11:30

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000301-RR-396

Influent

GC/MS Volatiles

Lot-Sample #....: A0C020144-001 Work Order #....: D96W4101 Matrix.....: WATER
 Date Sampled....: 03/01/00 11:30 Date Received...: 03/02/00
 Prep Date.....: 03/09/00 Analysis Date...: 03/09/00
 Prep Batch #....: 0070281
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.69	0.50	ug/L
Acetone	3.6 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Methylene chloride	0.11 J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Chloroform	0.72 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	19	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	90	(76 - 110)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	108	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000301-RR-397

Effluent

GC/MS Volatiles

Lot-Sample #....: A0C020144-002 Work Order #....: D96W5101 Matrix.....: WATER
 Date Sampled....: 03/01/00 11:30 Date Received...: 03/02/00
 Prep Date.....: 03/09/00 Analysis Date...: 03/09/00
 Prep Batch #....: 0070281
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.46 J	0.50	ug/L
Acetone	2.8 J	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	3.1	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.098 J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	11	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(61 - 128)
Toluene-d8	87	(76 - 110)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	107	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000301-RR-397

DISSOLVED Metals

Lot-Sample #...: A0C020144-002

Matrix.....: WATER

Date Sampled...: 03/01/00 11:30 Date Received...: 03/02/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 0066103						
Barium	ND	200	ug/L	SW846 6010B	03/06-03/08/00	D96W5102
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	03/06-03/08/00	D96W5106
		Dilution Factor: 1				
Iron	1870	100	ug/L	SW846 6010B	03/06-03/08/00	D96W5103
		Dilution Factor: 1				
Manganese	1050	15.0	ug/L	SW846 6010B	03/06-03/08/00	D96W5104
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	03/06-03/08/00	D96W5105
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000301-RR-397

General Chemistry

Lot-Sample #...: A0C020144-002 Work Order #...: D96W5
Date Sampled...: 03/01/00 11:30 Date Received...: 03/02/00

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	6.9		No Units	MCAWW 150.1	03/02/00	0062417

Dilution Factor: 1

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

Revision 6, 02/25/00
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0C020144 Work Order #....: D9GPL102 Matrix.....: WATER
 LCS Lot-Sample#: A0C100000-281
 Prep Date.....: 03/09/00 Analysis Date...: 03/09/00
 Prep Batch #....: 0070281
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	103	(63 - 130)	SW846 8260B
Trichloroethene	101	(75 - 122)	SW846 8260B
Benzene	105	(80 - 116)	SW846 8260B
Toluene	96	(74 - 119)	SW846 8260B
Chlorobenzene	99	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	114	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	110	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0C020144

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0C060000-103 Prep Batch #....: 0066103					
Barium	94	(83 - 113)	SW846 6010B	03/06-03/07/00	D99KW113
		Dilution Factor: 1			
Iron	112	(77 - 127)	SW846 6010B	03/06-03/09/00	D99KW114
		Dilution Factor: 1			
Manganese	97	(81 - 115)	SW846 6010B	03/06-03/07/00	D99KW115
		Dilution Factor: 1			
Zinc	99	(83 - 122)	SW846 6010B	03/06-03/07/00	D99KW116
		Dilution Factor: 1			
Chromium	102	(82 - 115)	SW846 6010B	03/06-03/07/00	D99KW117
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0C020144
MB Lot-Sample #: A0C100000-281

Work Order #...: D9GPL101

Matrix.....: WATER

Prep Date.....: 03/09/00

Prep Batch #...: 0070281

Analysis Date...: 03/09/00

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	101	(76 - 110)
Dibromofluoromethane	106	(73 - 122)
4-Bromofluorobenzene	109	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: AOC020144

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: AOC060000-103 Prep Batch #....: 0066103						
Barium	ND	200	ug/L	SW846 6010B	03/06-03/07/00	D99KW10G
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	03/06-03/07/00	D99KW10L
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	03/06-03/09/00	D99KW10H
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	03/06-03/07/00	D99KW10J
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	03/06-03/07/00	D99KW10K
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0C020144 Work Order #....: D9C54102-MS Matrix.....: WATER
 MS Lot-Sample #: A0C070197-001 D9C54103-MSD
 Date Sampled....: 03/06/00 11:00 Date Received...: 03/07/00
 Prep Date.....: 03/09/00 Analysis Date...: 03/09/00
 Prep Batch #....: 0070281
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	93	(62 - 130)			SW846 8260B
	100	(62 - 130)	7.2	(0-20)	SW846 8260B
Trichloroethene	91	(62 - 130)			SW846 8260B
	99	(62 - 130)	7.6	(0-20)	SW846 8260B
Toluene	85	(70 - 119)			SW846 8260B
	92	(70 - 119)	7.6	(0-20)	SW846 8260B
Benzene	95	(76 - 118)			SW846 8260B
	105	(76 - 118)	9.5	(0-20)	SW846 8260B
Chlorobenzene	89	(76 - 117)			SW846 8260B
	98	(76 - 117)	9.3	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(61 - 128)
	111	(61 - 128)
Toluene-d8	102	(76 - 110)
	101	(76 - 110)
Dibromofluoromethane	105	(73 - 122)
	105	(73 - 122)
4-Bromofluorobenzene	110	(74 - 116)
	109	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0C020144

Matrix.....: WATER

Date Sampled...: 03/02/00 06:30 Date Received...: 03/03/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0C040106-001 Prep Batch #....: 0066103						
Barium	99	(80 - 120)		SW846 6010B	03/06-03/07/00	D996310W
	97	(80 - 120)	1.7 (0-20)	SW846 6010B	03/06-03/07/00	D996310X
		Dilution Factor: 1				
Chromium	99	(80 - 120)		SW846 6010B	03/06-03/07/00	D996311A
	97	(80 - 120)	2.0 (0-20)	SW846 6010B	03/06-03/07/00	D996311C
		Dilution Factor: 1				
Iron	106	(80 - 120)		SW846 6010B	03/06-03/07/00	D9963111
	106	(80 - 120)	0.01 (0-20)	SW846 6010B	03/06-03/07/00	D9963112
		Dilution Factor: 1				
Manganese	100	(80 - 120)		SW846 6010B	03/06-03/07/00	D9963114
	97	(80 - 120)	2.6 (0-20)	SW846 6010B	03/06-03/07/00	D9963115
		Dilution Factor: 1				
Zinc	108	(80 - 120)		SW846 6010B	03/06-03/07/00	D9963117
	100	(80 - 120)	7.2 (0-20)	SW846 6010B	03/06-03/07/00	D9963118
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A0C020144

Work Order #....: D97DM-SMP
D97DM-DUP

Matrix.....: WATER

Date Sampled....: 03/01/00 16:00 Date Received...: 03/02/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.7	7.7	No Units	0.13	(0-20)	SD Lot-Sample #: A0C020202-001 MCAWW 150.1	03/02/00	0062417
Dilution Factor: 1								

CJA-4124

Client

Address

City

Project Name

Contract/Purchase Order/Quote No.

[illegible]

METALS SAMPLES ARE NOT PRESERVED AND NEEDED TO BE
 FILTERED AND PRESERVED BY THIS LAB ALSO NEEDED PH LEVEL TEST TAKEN

Special Instructions

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Turn Around Time Required

☐ Normal ☒ Rash

1. Relinquished By Island Russell

2. Relinquished By

3. Relinquished By

Comments

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Project Specific (Specify)

QC Level

☐ I. ☐ II. ☐ III.

Date	Time
3/01/00	01:30

Date 7/27 Time 11:00

Date	Time
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1. Received By	
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2 Received By Perry Burns

2. Received By

3. Received By

Date 3/2/00 Time 9:50 AM

Date _____ Time _____

<i>Date</i>	<i>Time</i>
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DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Client

Client

Address

City

State

Zip Code

Project Manager

Date _____

Chain Of Custody Number

Telephone Number (Area Code)/Fax/Number

Lab Number	
-------------------	--

Page 1 of 1

Site Contact	
--------------	--

Analysis

Carrier/Waybill Number

Project Name

Contract/Purchase Order/Quote No.

Vocs
Metals

RECEIVED
MAR 16 2000
CRA, INC.

METALS SAMPLES ARE NOT PRESERVED AND NEEDED TO BE
FILTERED AND PRESERVED BY THIS LAB ALSO NEEDED PH CALIBRATION TEST TAKEN

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Turn Around Time Required

☐ Normal ☐ Rash

QC Level

☐ I. ☐ II. ☐ III.

Project Specific (Specify)

1. Received By

Date _____

Time

Date	Time
3/01/00	01130

2. Received By

Date _____

Time

3. Relinquished By

Date _____

Time

3. Received By

Date _____

Time

Comments

DISTRIBUTION WHITE - [REDACTED] with [REDACTED] CANADA. Returned to Client with Report; PINK - Field Co

3978-10



Quanterra
4101 Shuffel Drive, NW
North Canton, Ohio 44720-6961

330 497-9396 Telephone
330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
DAF26	A0D040166-001	W000403-MT-398
DAF28	A0D040166-002	W000403-MT-399

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

April 21, 2000

CNA rec'd.

4.25.00

CASE NARRATIVE

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Site, project number 3978. The samples were received April 4, 2000, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on April 18, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

ANALYTICAL METHODS SUMMARY

A0D040166

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0D040166

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DAF26	001	W000403-MT-398	04/03/00	09:30
DAF28	002	W000403-MT-399	04/03/00	09:30

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000403-MT-398

GC/MS Volatiles

Influent

Lot-Sample #....: A0D040166-001 Work Order #....: DAF26101 Matrix.....: WATER
 Date Sampled....: 04/03/00 09:30 Date Received...: 04/04/00
 Prep Date.....: 04/06/00 Analysis Date...: 04/06/00
 Prep Batch #....: 0098149
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.67	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.87 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	19	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	102	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	107	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000403-MT-399

Effluent

GC/MS Volatiles

Lot-Sample #....: A0D040166-002 Work Order #....: DAF28101 Matrix.....: WATER
 Date Sampled....: 04/03/00 09:30 Date Received...: 04/04/00
 Prep Date.....: 04/06/00 Analysis Date...: 04/06/00
 Prep Batch #....: 0098149
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.41 J	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	2.4	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.062 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	9.7	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	108	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000403-MT-399

DISSOLVED Metals

Lot-Sample #....: A0D040166-002

Matrix.....: WATER

Date Sampled....: 04/03/00 09:30 Date Received...: 04/04/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0101117						
Barium	ND	200	ug/L	SW846 6010B	04/10-04/12/00	DAF28102
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/12/00	DAF28106
		Dilution Factor: 1				
Iron	1870	100	ug/L	SW846 6010B	04/10-04/12/00	DAF28103
		Dilution Factor: 1				
Manganese	930	15.0	ug/L	SW846 6010B	04/10-04/12/00	DAF28104
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/12/00	DAF28105
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000403-MT-399

General Chemistry

Lot-Sample #....: A0D040166-002 Work Order #....: DAF28
Date Sampled....: 04/03/00 09:30 Date Received...: 04/04/00

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	6.8		No Units	MCAWW 150.1	04/04/00	0095441
			Dilution Factor: 1			

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL), the analytes were greater than 10 times the blank level, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

* for analyses run on TJA Trace ICP only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Carolina (39702), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence

Revision 7, 03/21/00
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0D040166 Work Order #....: DAKFR102 Matrix.....: WATER
 LCS Lot-Sample#: A0D070000-149
 Prep Date.....: 04/06/00 Analysis Date...: 04/06/00
 Prep Batch #....: 0098149
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	90	(63 - 130)	SW846 8260B
Trichloroethene	93	(75 - 122)	SW846 8260B
Benzene	99	(80 - 116)	SW846 8260B
Toluene	98	(74 - 119)	SW846 8260B
Chlorobenzene	101	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	102	(76 - 110)
Dibromofluoromethane	90	(73 - 122)
4-Bromofluorobenzene	108	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0D040166

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A0D100000-117 Prep Batch #....: 0101117					
Barium	101	(83 - 113)	SW846 6010B	04/10-04/12/00	DAN7F10F
		Dilution Factor: 1			
Iron	110	(77 - 127)	SW846 6010B	04/10-04/12/00	DAN7F10G
		Dilution Factor: 1			
Manganese	104	(81 - 115)	SW846 6010B	04/10-04/12/00	DAN7F10H
		Dilution Factor: 1			
Zinc	104	(83 - 122)	SW846 6010B	04/10-04/12/00	DAN7F10J
		Dilution Factor: 1			
Chromium	99	(82 - 115)	SW846 6010B	04/10-04/12/00	DAN7F10K
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0D040166
MB Lot-Sample #: A0D070000-149

Work Order #...: DAKFR101

Matrix.....: WATER

Analysis Date...: 04/06/00
Dilution Factor: 1

Prep Date.....: 04/06/00
Prep Batch #...: 0098149

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	104	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
4-Bromofluorobenzene	108	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A0D040166

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0D100000-117 Prep Batch #...: 0101117						
Barium	ND	200	ug/L	SW846 6010B	04/10-04/12/00	DAN7F107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/10-04/12/00	DAN7F10C
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	04/10-04/12/00	DAN7F108
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	04/10-04/12/00	DAN7F109
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/10-04/12/00	DAN7F10A
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0D040166 Work Order #...: DACWV10G-MS Matrix.....: WATER
 MS Lot-Sample #: A0D010132-004 DACWV10H-MSD
 Date Sampled...: 03/30/00 14:09 Date Received...: 04/01/00
 Prep Date.....: 04/06/00 Analysis Date...: 04/06/00
 Prep Batch #...: 0098149
 Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	90	(62 - 130)			SW846 8260B
	92	(62 - 130)	1.4	(0-20)	SW846 8260B
Trichloroethene	86	(62 - 130)			SW846 8260B
	84	(62 - 130)	1.4	(0-20)	SW846 8260B
Benzene	100	(76 - 118)			SW846 8260B
	101	(76 - 118)	0.74	(0-20)	SW846 8260B
Toluene	94	(70 - 119)			SW846 8260B
	94	(70 - 119)	0.31	(0-20)	SW846 8260B
Chlorobenzene	100	(76 - 117)			SW846 8260B
	101	(76 - 117)	0.87	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(61 - 128)
	97	(61 - 128)
Toluene-d8	100	(76 - 110)
	99	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
	93	(73 - 122)
4-Bromofluorobenzene	107	(74 - 116)
	105	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0D040166

Matrix.....: WATER

Date Sampled....: 04/06/00 09:30 Date Received...: 04/07/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0D080163-001 Prep Batch #....: 0101117						
Barium	96	(80 - 120)		SW846 6010B	04/10-04/12/00	DAMW810F
	97	(80 - 120)	0.53 (0-20)	SW846 6010B	04/10-04/12/00	DAMW810G
		Dilution Factor: 1				
Chromium	97	(80 - 120)		SW846 6010B	04/10-04/12/00	DAMW810U
	98	(80 - 120)	0.23 (0-20)	SW846 6010B	04/10-04/12/00	DAMW810V
		Dilution Factor: 1				
Iron	107	(80 - 120)		SW846 6010B	04/10-04/12/00	DAMW810J
	108	(80 - 120)	0.77 (0-20)	SW846 6010B	04/10-04/12/00	DAMW810K
		Dilution Factor: 1				
Manganese	101	(80 - 120)		SW846 6010B	04/10-04/12/00	DAMW810M
	102	(80 - 120)	0.92 (0-20)	SW846 6010B	04/10-04/12/00	DAMW810N
		Dilution Factor: 1				
Zinc	102	(80 - 120)		SW846 6010B	04/10-04/12/00	DAMW810Q
	104	(80 - 120)	1.1 (0-20)	SW846 6010B	04/10-04/12/00	DAMW810R
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

General Chemistry

Date Sampled...: 04/04/00 08:00 Date Received...: 04/04/00

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
pH (liquid)					SD Lot-Sample #:	A0D040201-001	
6.6	6.7	No Units	0.90	(0-20)	MCAWW 150.1	04/04/00	0095441
		Dilution Factor: 1					

Chain of
Custody Record1-4124
ent

MARATHON ELEC. MFG. CORP.

200 E. RANDOLPH ST.

NAUSAU

REF 3978

Contract/Purchase Order/Quote No.

State

Zip Code

WI

54401

Project Manager

WALLY MATISON

Telephone Number (Area Code)/Fax Number

715-1675-3359-4338

Site Contact

WALLY MATISON

Carrier/Waybill Number

Date

4-3-00

Lab Number

Chain Of Custody Number

61027

Page 1 of 1

Analysis

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt	VOL'S	METALS										
					Type	No.														
000403-MT-398	4-3-00	9:30	SLUG	3 VILS	40ML	3	HCL		X											
000403-MT-399	4-3-00	9:30	SPILLWAY GRAB	3 VILS	40ML	3	HCL		X											
000403-MT-399	4-3-00	9:30	SPILLWAY GRAB	1 LT		1	NONE			X										
METALS SAMPLES ARE PRESERVED AND NEED TO BE FILTERED																				
AND PRESERVED BY THE LAB.																				
LSD NEEDS PH LEVEL TEST TAKEN																				

Special Instructions

Possible Hazard Identification

☐ Non-Hazard
 ☐ Flammable
 ☐ Skin Irritant
 ☐ Poison B
 ☐ Unknown

Time Around Time Required

☐ Normal
 ☐ Rush

Relinquished By

Markin Just

Relinquished By

Relinquished By

Comments

Sample Disposal

☐ Return To Client
 ☐ Disposal By Lab
 ☐ Archive For _____ Months

Project Specific (Specify)

1. Received By

Date

Time

2. Received By

Date

Time

3. Received By

Date

Time

Chain of
Custody Record

RECEIVED
APR 24 2000



QUA-4124

Client MARATHON ELEC. MFG. CORP.			Project Manager WALLY MATSON		Date 4-3-00		Chain Of Custody Number 61027	
Address 100 E. RANDOLPH ST.			Telephone Number (Area Code)/Fax Number 715-675-3359-4338		Lab Number		Page <u>1</u> of <u>1</u>	
City WAUSAU	State WI	Zip Code 54401	Site Contact WALLY MATSON			Analysis		
Project Name REF 3918			Carrier/Waybill Number					
Contract/Purchase Order/Quote No.								

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt	VOL'S	METALS										
					Type	No.														
W000403-MT-398	4-3-00	9:30	SPILLOT	3 VILS	40 ML	3	HCL		X											
W000403-MT-399	4-3-00	9:30	SPILLWAY GRAB	3 VILS	40 ML	3	HCL		X											
W000403-MT-399	4-3-00	9:30	SPILLWAY GRAB	1 LT		1	NONE			X										
METALS SAMPLES ARE PRESERVED AND NEED TO BE FILTERED AND PRESERVED BY THE LAB. ALSO NEEDS PH LEVEL TEST TAKEN.																				

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown				Sample Disposal ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Turn Around Time Required ☐ Normal ☐ Rush		QC Level ☐ I. ☐ II. ☐ III.		Project Specific (Specify)					
1. Relinquished By Markin Just		Date 4-3-00	Time 9:30	1. Received By				Date	Time
2. Relinquished By		Date	Time	2. Received By [Signature]				Date 4/4/00	Time 9:30
3. Relinquished By		Date	Time	3. Received By				Date	Time

3978-10



MN FILE COPY

Quanterra
4101 Shuffel Drive, NW
North Canton, Ohio 44720-6961

330 497-9396 Telephone
330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU SUPERFUND

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
DCM53	A0E020153-001	W000501-MT-400
DCM54	A0E020153-002	W000501-MT-401

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

May 23, 2000

*Copy sent
5.24.00*

CASE NARRATIVE

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Superfund Site, project number 3978. The samples were received May 2, 2000, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on May 11, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

ANALYTICAL METHODS SUMMARY

AOR020153

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0E020153

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DCM53	001	W000501-MT-400	05/01/00	09:00
DCM54	002	W000501-MT-401	05/01/00	09:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000501-MT-400

GC/MS Volatiles

Lot-Sample #....: A0E020153-001 Work Order #....: DCM53101 Matrix.....: WG
 Date Sampled....: 05/01/00 09:00 Date Received...: 05/02/00
 Prep Date.....: 05/05/00 Analysis Date...: 05/05/00
 Prep Batch #....: 0129178
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.60	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.78 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	19	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	92	(76 - 110)
Dibromofluoromethane	93	(73 - 122)
4-Bromofluorobenzene	101	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000501-MT-401

GC/MS Volatiles

Lot-Sample #....: A0E020153-002 Work Order #....: DCM54101 Matrix.....: WG
 Date Sampled....: 05/01/00 09:00 Date Received...: 05/02/00
 Prep Date.....: 05/05/00 Analysis Date...: 05/05/00
 Prep Batch #....: 0129178
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.37 J	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	3.6	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	9.3	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	94	(76 - 110)
Dibromofluoromethane	90	(73 - 122)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000501-MT-401

DISSOLVED Metals

Lot-Sample #....: A0E020153-002

Matrix.....: WG

Date Sampled....: 05/01/00 09:00 Date Received...: 05/02/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0124110						
Barium	ND	200	ug/L	SW846 6010B	05/03-05/04/00	DCM54102
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/04/00	DCM54106
		Dilution Factor: 1				
Iron	1870	100	ug/L	SW846 6010B	05/03-05/04/00	DCM54103
		Dilution Factor: 1				
Manganese	991	15.0	ug/L	SW846 6010B	05/03-05/04/00	DCM54104
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	05/03-05/04/00	DCM54105
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC:

Client Sample ID: W000501-MT-401

General Chemistry

Lot-Sample #...: A0E020153-002 Work Order #...: DCM54
Date Sampled...: 05/01/00 09:00 Date Received...: 05/02/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	6.2		No Units	MCAWW 150.1	05/02/00	0123346

Dilution Factor: 1

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL), the analytes were greater than 10 times the blank level, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Carolina (39702), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence

Revision7, 03/21/00
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0E020153 Work Order #....: DCW3F102 Matrix.....: WATER
 LCS Lot-Sample#: A0E080000-178
 Prep Date.....: 05/05/00 Analysis Date...: 05/05/00
 Prep Batch #....: 0129178
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	98	(63 - 130)	SW846 8260B
Trichloroethene	96	(75 - 122)	SW846 8260B
Benzene	83	(80 - 116)	SW846 8260B
Toluene	98	(74 - 119)	SW846 8260B
Chlorobenzene	105	(76 - 117)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	83	(61 - 128)
Toluene-d8	94	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
4-Bromofluorobenzene	104	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0E020153

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A0E030000-110 Prep Batch #....: 0124110					
Iron	102	(77 - 127)	SW846 6010B	05/03-05/04/00	DCN1Q10F
		Dilution Factor: 1			
Barium	95	(83 - 113)	SW846 6010B	05/03-05/04/00	DCN1Q10L
		Dilution Factor: 1			
Manganese	97	(81 - 115)	SW846 6010B	05/03-05/04/00	DCN1Q10M
		Dilution Factor: 1			
Zinc	99	(83 - 122)	SW846 6010B	05/03-05/04/00	DCN1Q10N
		Dilution Factor: 1			
Chromium	95	(82 - 115)	SW846 6010B	05/03-05/04/00	DCN1Q10P
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0E020153
MB Lot-Sample #: A0E080000-178

Work Order #....: DCW3F101

Matrix.....: WATER

Analysis Date...: 05/05/00
Dilution Factor: 1

Prep Date.....: 05/05/00
Prep Batch #....: 0129178

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	94	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
4-Bromofluorobenzene	101	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: A0E020153

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0E030000-110 Prep Batch #....: 0124110						
Barium	ND	200	ug/L	SW846 6010B	05/03-05/04/00	DCN1Q109
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/04/00	DCN1Q10D
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	05/03-05/04/00	DCN1Q104
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	05/03-05/04/00	DCN1Q10A
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	05/03-05/04/00	DCN1Q10C
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0E020153 Work Order #....: DCFLX10F-MS Matrix.....: WATER
 MS Lot-Sample #: A0D270126-004 DCFLX10G-MSD
 Date Sampled....: 04/25/00 10:40 Date Received...: 04/27/00
 Prep Date.....: 05/05/00 Analysis Date...: 05/05/00
 Prep Batch #....: 0129178
 Dilution Factor: 33.33

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(62 - 130)			SW846 8260B
	94	(62 - 130)	0.76	(0-20)	SW846 8260B
Trichloroethene	97	(62 - 130)			SW846 8260B
	97	(62 - 130)	0.05	(0-20)	SW846 8260B
Benzene	87	(76 - 118)			SW846 8260B
	86	(76 - 118)	1.8	(0-20)	SW846 8260B
Toluene	99	(70 - 119)			SW846 8260B
	101	(70 - 119)	1.7	(0-20)	SW846 8260B
Chlorobenzene	104	(76 - 117)			SW846 8260B
	105	(76 - 117)	0.74	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(61 - 128)
	84	(61 - 128)
Toluene-d8	94	(76 - 110)
	96	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
	94	(73 - 122)
4-Bromofluorobenzene	103	(74 - 116)
	104	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0E020153

Matrix.....: WATER

Date Sampled....: 05/01/00 11:10 Date Received...: 05/02/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0E020175-002 Prep Batch #....: 0124110						
Barium	95	(80 - 120)		SW846 6010B	05/03-05/04/00	DCMCD10F
	95	(80 - 120) 0.15 (0-20)		SW846 6010B	05/03-05/04/00	DCMCD10G
Dilution Factor: 1						
Chromium	94	(80 - 120)		SW846 6010B	05/03-05/04/00	DCMCD10Q
	94	(80 - 120) 0.53 (0-20)		SW846 6010B	05/03-05/04/00	DCMCD10R
Dilution Factor: 1						
Iron	103	(80 - 120)		SW846 6010B	05/03-05/04/00	DCMCD108
	101	(80 - 120) 2.0 (0-20)		SW846 6010B	05/03-05/04/00	DCMCD109
Dilution Factor: 1						
Manganese	97	(80 - 120)		SW846 6010B	05/03-05/04/00	DCMCD10J
	97	(80 - 120) 0.49 (0-20)		SW846 6010B	05/03-05/04/00	DCMCD10K
Dilution Factor: 1						
Zinc	99	(80 - 120)		SW846 6010B	05/03-05/04/00	DCMCD10M
	98	(80 - 120) 0.88 (0-20)		SW846 6010B	05/03-05/04/00	DCMCD10N
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

General Chemistry

Matrix.....: WG

Date Sampled...: 05/01/00 09:00 Date Received...: 05/02/00

18

21A-4124

Client



19

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt	V	Me
					Type	No.				
W000501-MT-400	5-1-00	9:00	SPIGOT	3 VILS	40ML	3	HCL	X		
W000501-MT-401	5-1-00	9:00	SPILLWAY GRAB	3 VILS	40ML	3	HCL	X		
W000501-MT-401	5-1-00	9:00	SPILLWAY GRAB	1 LT		1	NONE	X		
METALS SAMPLES ARE PRESERVED AND NEED TO BE FILTERED AND PRESERVED BY THE LAB ALSO NEEDS PH LEVELS TEST TAKEN										

Special Instructions

Possible Hazard Identification		Sample Disposal	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☐ Disposal By Lab
☐ Skin Irritant	☐ Poison B	☐ Archive For _____ Months	
☐ Unknown			
Turn Around Time Required	QC Level	Project Specific (Specify)	
☐ Normal	☐ I		
☐ Rush	☐ II		
	☐ III		
1. Relinquished By	Date	Time	1. Received By
<i>Marlin Hunt</i>	<i>5/1/00</i>	<i>9:00</i>	<i>Derry Burns</i>
2. Relinquished By	Date	Time	2. Received By
3. Relinquished By	Date	Time	3. Received By

Comments

DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

~~MAY 24 2000~~

60123

Page 1 of 1

Analysis

Carrier/Waybill Number

Contract/Purchase Order/Quote No.

VELS
METALS

Date	Time
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DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client with Report; PINK - Field Copy

3978

MM FILE COPY

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU SUPERFUND

SEVERN
TRENT
SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
DE4WA	A0F020270-001	W000601-RR-402
DE4WC	A0F020270-002	W000601-RR-403

RECEIVED
JUL 10 2000
CRA, INC.

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

June 28, 2000

CASE NARRATIVE

A0F020270

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Superfund Site, project number 3978. The samples were received June 2, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on June 13, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

ANALYTICAL METHODS SUMMARY

A0F020270

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0F020270

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DE4WA	001	W000601-RR-402	06/01/00	09:00
DE4WC	002	W000601-RR-403	06/01/00	09:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000601-RR-402

Influent

GC/MS Volatiles

Lot-Sample #....: A0F020270-001 Work Order #....: DE4WA101 Matrix.....: WG
 Date Sampled....: 06/01/00 09:00 Date Received...: 06/02/00
 Prep Date.....: 06/08/00 Analysis Date...: 06/08/00
 Prep Batch #....: 0160515
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.69 J,B	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	0.56	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Trichloroethene	18	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	85	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	104	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000601-RR-403

Effluent

GC/MS Volatiles

Lot-Sample #....: A0F020270-002 Work Order #....: DE4WC101 Matrix.....: WG
 Date Sampled....: 06/01/00 09:00 Date Received...: 06/02/00
 Prep Date.....: 06/08/00 Analysis Date...: 06/08/00
 Prep Batch #....: 0160515
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.28 J	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	4.0 B	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	8.1	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	87	(76 - 110)
Dibromofluoromethane	104	(73 - 122)
4-Bromofluorobenzene	106	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000601-RR-403

DISSOLVED Metals

Lot-Sample #....: A0F020270-002

Matrix.....: WG

Date Sampled....: 06/01/00 09:00 Date Received...: 06/02/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0157110						
Barium	ND	200	ug/L	SW846 6010B	06/05-06/06/00	DE4WC102
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/05-06/06/00	DE4WC106
		Dilution Factor: 1				
Iron	1360	100	ug/L	SW846 6010B	06/05-06/06/00	DE4WC103
		Dilution Factor: 1				
Manganese	717	15.0	ug/L	SW846 6010B	06/05-06/06/00	DE4WC104
		Dilution Factor: 1				
Zinc	70.1	20.0	ug/L	SW846 6010B	06/05-06/06/00	DE4WC105
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000601-RR-403

General Chemistry

Lot-Sample #...: A0F020270-002 Work Order #...: DE4WC

Matrix.....: WG

Date Sampled...: 06/01/00 09:00 Date Received...: 06/02/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	7.1		No Units	MCAWW 150.1	06/02/00	0157217

Dilution Factor: 1

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- for analyses run on TJA Trace ICP only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria does not apply to samples that are diluted for organics or at a 4 times dilution for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Carolina (39702), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence

Revision 7, 05/22/00
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0F020270 Work Order #....: DEEP2102 Matrix.....: WATER
 LCS Lot-Sample#: A0F080000-515
 Prep Date.....: 06/08/00 Analysis Date...: 06/08/00
 Prep Batch #....: 0160515
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	97	(63 - 130)	SW846 8260B
Trichloroethene	112	(75 - 122)	SW846 8260B
Benzene	101	(80 - 116)	SW846 8260B
Toluene	89	(74 - 119)	SW846 8260B
Chlorobenzene	99	(76 - 117)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	95	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A0F020270

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0F050000-110 Prep Batch #...: 0157110					
Barium	97	(80 - 120)	SW846 6010B	06/05-06/06/00	DE60010X
		Dilution Factor: 1			
Iron	108	(77 - 127)	SW846 6010B	06/05-06/06/00	DE600110
		Dilution Factor: 1			
Manganese	99	(80 - 120)	SW846 6010B	06/05-06/06/00	DE600111
		Dilution Factor: 1			
Zinc	103	(80 - 120)	SW846 6010B	06/05-06/06/00	DE600112
		Dilution Factor: 1			
Chromium	99	(80 - 120)	SW846 6010B	06/05-06/06/00	DE600113
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0F020270
 MB Lot-Sample #: A0F080000-515
 Analysis Date...: 06/08/00
 Dilution Factor: 1

Work Order #...: DEEP2101
 Prep Date.....: 06/08/00
 Prep Batch #...: 0160515

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	ND	10	ug/L		SW846 8260B
Benzene	ND	1.0	ug/L		SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L		SW846 8260B
Chloroform	0.12 J	1.0	ug/L		SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L		SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L		SW846 8260B
Ethylbenzene	ND	1.0	ug/L		SW846 8260B
Methylene chloride	0.48 J	1.0	ug/L		SW846 8260B
Tetrachloroethene	ND	1.0	ug/L		SW846 8260B
Toluene	ND	1.0	ug/L		SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L		SW846 8260B
Trichloroethene	ND	1.0	ug/L		SW846 8260B
Vinyl chloride	ND	1.0	ug/L		SW846 8260B
Xylenes (total)	ND	1.0	ug/L		SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	81	(61 - 128)
Toluene-d8	98	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	97	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: AOF020270

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: AOF050000-110 Prep Batch #...: 0157110						
Barium	ND	200	ug/L	SW846 6010B	06/05-06/06/00	DE60010G
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/05-06/06/00	DE60010L
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	06/05-06/06/00	DE60010H
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	06/05-06/06/00	DE60010J
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	06/05-06/06/00	DE60010K
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0F020270 Work Order #....: DESTV102-MS Matrix.....: WATER
 MS Lot-Sample #: A0F030167-001 DESTV103-MSD
 Date Sampled....: 06/02/00 11:30 Date Received...: 06/03/00
 Prep Date.....: 06/08/00 Analysis Date...: 06/08/00
 Prep Batch #....: 0160515
 Dilution Factor: 1.66

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	79	(62 - 130)			SW846 8260B
	85	(62 - 130)	7.3	(0-20)	SW846 8260B
Trichloroethene	82	(62 - 130)			SW846 8260B
	91	(62 - 130)	11	(0-20)	SW846 8260B
Benzene	86	(76 - 118)			SW846 8260B
	90	(76 - 118)	4.7	(0-20)	SW846 8260B
Toluene	85	(70 - 119)			SW846 8260B
	83	(70 - 119)	2.9	(0-20)	SW846 8260B
Chlorobenzene	85	(76 - 117)			SW846 8260B
	90	(76 - 117)	3.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(61 - 128)
	98	(61 - 128)
Toluene-d8	98	(76 - 110)
	92	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
	101	(73 - 122)
4-Bromofluorobenzene	97	(74 - 116)
	95	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0F020270

Matrix.....: WATER

Date Sampled....: 06/02/00 14:15 Date Received...: 06/02/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0F020278-001 Prep Batch #....: 0157110						
Barium	98	(75 - 125)		SW846 6010B	06/05-06/06/00	DE4XL111
	99	(75 - 125)	0.91 (0-20)	SW846 6010B	06/05-06/06/00	DE4XL112
		Dilution Factor: 1				
Chromium	99	(75 - 125)		SW846 6010B	06/05-06/06/00	DE4XL11E
	100	(75 - 125)	0.43 (0-20)	SW846 6010B	06/05-06/06/00	DE4XL11F
		Dilution Factor: 1				
Iron	111	(75 - 125)		SW846 6010B	06/05-06/06/00	DE4XL114
	116	(75 - 125)	1.3 (0-20)	SW846 6010B	06/05-06/06/00	DE4XL115
		Dilution Factor: 1				
Manganese	101	(75 - 125)		SW846 6010B	06/05-06/06/00	DE4XL117
	102	(75 - 125)	1.2 (0-20)	SW846 6010B	06/05-06/06/00	DE4XL118
		Dilution Factor: 1				
Zinc	105	(75 - 125)		SW846 6010B	06/05-06/06/00	DE4XL11A
	107	(75 - 125)	1.3 (0-20)	SW846 6010B	06/05-06/06/00	DE4XL11C
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0F020270 Work Order #...: DE4WC-SMP Matrix.....: WG

DE4WC-DUP

Date Sampled...: 06/01/00 09:00 Date Received...: 06/02/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.1	7.1	No Units	0.0	(0-20)	SD Lot-Sample #: A0F020270-002 MCAWW 150.1	06/02/00	0157217
			Dilution Factor: 1					

Chain of Custody Record



200-4124

Client MARATHON BLC MFG CORP		Project Manager WALLY MATTHEWSON		Date 6-1-0000	Chain Of Custody Number 59437
Address 100E Randolph St		Telephone Number (Area Code)/Fax Number 715 675-3359-4338		Lab Number	Page 1 of 1
City WAUSAU	State WI	Zip Code 54401	Site Contact WALLY MATTHEWSON		
Project Name RBF 3478			Carrier/Vehicle Number		
Contract/Purchase Order/Quote No.					

Sample ID, No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt	Analysis									
					Type	No.												
W000601-RR-402	6-1-00	900	SPIGOT	3 VIALS	40ML	3	HCL		X									
W000601-RR-403	6/1/00	900	SPILLWAY	3 VIALS	40ML	3	HCL		X									
			GRAB															
W000601-RR-403	6-1-00	900	SPILLWAY	3 VIALS	40ML	3	HCL		X									
			GRAB															
			F-11	1 LT	1		NONE		X									
METALS SAMPLES ARE PRESERVED AND NEEDED TO BE KEPT FILLED AND PRESERVED BY LAB ALSO NEEDED PH LEVELS TEST TAKEN																		

Special Instructions

Possible Hazard Identification				Sample Disposal			
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Return To Client	☐ Disposal By Lab	☐ Archive For _____ Months
Turn Around Time Required				Project Specific (Specify)			
☐ Normal	☐ Rush	QC Level					
		☐ I	☐ II	☐ III			
1. Relinquished By Roland Russell		Date	Time	1. Received By		Date	Time
		6-1-00	0900				
2. Relinquished By		Date	Time	2. Received By [Signature]		Date	Time
						6/2/00	955
3. Relinquished By		Date	Time	3. Received By		Date	Time

Comments

3978-10
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ANALYTICAL REPORT

RECEIVED

AUG 01 2000

CRA, INC.

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU SUPERFUND



STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
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SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>
DFMEA	A0G010153-001
DFMEC	A0G010153-002

SAMPLE IDENTIFICATION

W000629-MT-404-SPIGOT
W000629-MT-405-SPILLWAY GRAB

QUANTERRA INCORPORATED

Amy McCormick

Amy L. McCormick
Project Manager

July 29, 2000

CASE NARRATIVE

A0G010153

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Superfund Site, project number 3978. The samples were received June 30, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by electronic mail to Ruth Mickle on July 14, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Samples were received at the laboratory at a temperature of 6.8° C. with wet ice present. Ruth Mickle was notified of this anomaly on July 5, 2000.

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

ANALYTICAL METHODS SUMMARY

A0G010153

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0G010153

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DFMEA	001	W000629-MT-404-SPIGOT	06/29/00	10:00
DFMEC	002	W000629-MT-405-SPILLWAY GRAB	06/29/00	10:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000629-MT-404-SPIGOT

GC/MS Volatiles

Lot-Sample #....: A0G010153-001 Work Order #....: DFMEA101 Matrix.....: WG
 Date Sampled....: 06/29/00 10:00 Date Received...: 06/30/00
 Prep Date.....: 07/11/00 Analysis Date...: 07/11/00
 Prep Batch #....: 0194132
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.60	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.82 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	1.7 B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	18 B	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	122	(61 - 128)
Toluene-d8	95	(76 - 110)
Dibromofluoromethane	117	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000629-MT-405-SPILLWAY GRAB

GC/MS Volatiles

Lot-Sample #....: A0G010153-002 Work Order #....: DFMEC101 Matrix.....: WG
 Date Sampled....: 06/29/00 10:00 Date Received...: 06/30/00
 Prep Date.....: 07/11/00 Analysis Date...: 07/11/00
 Prep Batch #....: 0194132
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.43 J	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	4.9	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	3.0 B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.068 J,B	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	9.7 B	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	124	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	122	(73 - 122)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000629-MT-405-SPILLWAY GRAB

DISSOLVED Metals

Lot-Sample #....: A0G010153-002

Matrix.....: WG

Date Sampled....: 06/29/00 10:00 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 0187105						
Barium	ND	200	ug/L	SW846 6010B	07/05-07/06/00	DFMEC102
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	07/05-07/06/00	DFMEC106
		Dilution Factor: 1				
Iron	1570 MBD	100	ug/L	SW846 6010B	07/05-07/06/00	DFMEC103
		Dilution Factor: 1				
Manganese	821	15.0	ug/L	SW846 6010B	07/05-07/06/00	DFMEC104
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	07/05-07/06/00	DFMEC105
		Dilution Factor: 1				

NOTE(S):

MBD This analyte is present in the associated method blank at an amount that is less than two times the reporting limit.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000629-MT-405-SPILLWAY GRAB

General Chemistry

Lot-Sample #...: A0G010153-002 Work Order #...: DFMEC Matrix.....: WG
Date Sampled...: 06/29/00 10:00 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	7.0		No Units	MCAWW 150.1	06/30/00	0193212

Dilution Factor: 1

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP only*

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Carolina (39702), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence

Revision 8, 06/26/00
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0G010153 Work Order #....: DG2FG102 Matrix.....: WATER
 LCS Lot-Sample#: A0G120000-132
 Prep Date.....: 07/11/00 Analysis Date...: 07/11/00
 Prep Batch #....: 0194132
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	108	(63 - 130)	SW846 8260B
Trichloroethene	106	(75 - 122)	SW846 8260B
Benzene	107	(80 - 116)	SW846 8260B
Toluene	99	(74 - 119)	SW846 8260B
Chlorobenzene	100	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	102	(76 - 110)
Dibromofluoromethane	113	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A0G010153

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A0G050000-105 Prep Batch #...: 0187105					
Barium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	07/05-07/06/00	DFNW510L
Iron	104	(77 - 127)	SW846 6010B Dilution Factor: 1	07/05-07/06/00	DFNW510M
Manganese	96	(80 - 120)	SW846 6010B Dilution Factor: 1	07/05-07/06/00	DFNW510N
Zinc	100	(80 - 120)	SW846 6010B Dilution Factor: 1	07/05-07/06/00	DFNW510P
Chromium	96	(80 - 120)	SW846 6010B Dilution Factor: 1	07/05-07/06/00	DFNW510Q

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G010153
MB Lot-Sample #: A0G120000-132

Work Order #...: DG2FG101

Matrix.....: WATER

Analysis Date...: 07/11/00
Dilution Factor: 1

Prep Date.....: 07/11/00
Prep Batch #...: 0194132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	0.49 J	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.80 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	0.54 J	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	0.38 J	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	98	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: A0G010153

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0G050000-105 Prep Batch #....: 0187105						
Barium	ND	200	ug/L	SW846 6010B	07/05-07/06/00	DFNW5109
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	07/05-07/06/00	DFNW510E
		Dilution Factor: 1				
Iron	147	100	ug/L	SW846 6010B	07/05-07/06/00	DFNW510A
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	07/05-07/06/00	DFNW510C
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	07/05-07/06/00	DFNW510D
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G010153 Work Order #...: DFM04105-MS Matrix.....: WATER
 MS Lot-Sample #: A0G010103-002 DFM04106-MSD
 Date Sampled...: 06/29/00 12:05 Date Received...: 06/30/00
 Prep Date.....: 07/11/00 Analysis Date...: 07/11/00
 Prep Batch #...: 0194132
 Dilution Factor: 2.5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	104	(62 - 130)			SW846 8260B
	109	(62 - 130)	5.3	(0-20)	SW846 8260B
Trichloroethene	125	(62 - 130)			SW846 8260B
	127	(62 - 130)	0.64	(0-20)	SW846 8260B
Benzene	104	(76 - 118)			SW846 8260B
	110	(76 - 118)	5.5	(0-20)	SW846 8260B
Toluene	92	(70 - 119)			SW846 8260B
	96	(70 - 119)	4.1	(0-20)	SW846 8260B
Chlorobenzene	92	(76 - 117)			SW846 8260B
	97	(76 - 117)	4.6	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	122	(61 - 128)
	114	(61 - 128)
Toluene-d8	96	(76 - 110)
	101	(76 - 110)
Dibromofluoromethane	116	(73 - 122)
	118	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)
	97	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: AOG010153

Matrix.....: WATER

Date Sampled...: 06/30/00 09:00 Date Received...: 07/01/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: AOG020103-001 Prep Batch #...: 0187105						
Barium	95	(75 - 125)		SW846 6010B	07/05-07/06/00	DFN4110P
	81	(75 - 125) 16	(0-20)	SW846 6010B	07/05-07/06/00	DFN4110Q
Dilution Factor: 1						
Chromium	95	(75 - 125)		SW846 6010B	07/05-07/06/00	DFN41114
	81	(75 - 125) 16	(0-20)	SW846 6010B	07/05-07/06/00	DFN41115
Dilution Factor: 1						
Iron	112	(75 - 125)		SW846 6010B	07/05-07/06/00	DFN4110T
	91	(75 - 125) 17	(0-20)	SW846 6010B	07/05-07/06/00	DFN4110U
Dilution Factor: 1						
Manganese	120	(75 - 125)		SW846 6010B	07/05-07/06/00	DFN4110W
	96	(75 - 125) 16	(0-20)	SW846 6010B	07/05-07/06/00	DFN4110X
Dilution Factor: 1						
Zinc	111	(75 - 125)		SW846 6010B	07/05-07/06/00	DFN41111
	92	(75 - 125) 16	(0-20)	SW846 6010B	07/05-07/06/00	DFN41112
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A0G010153 Work Order #....: DFK1W-SMP Matrix.....: WATER

DFK1W-DUP

Date Sampled...: 06/29/00 14:50 Date Received...: 06/30/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	6.1	6.2	No Units	0.33	(0-20)	SD Lot-Sample #: A0F300137-002 MCAWW 150.1	06/30/00	0193212
			Dilution Factor: 1					
pH (liquid)	6.1	6.3	No Units	1.9	(0-20)	SD Lot-Sample #: A0F300137-002 MCAWW 150.1	06/30/00	0193212
			Dilution Factor: 1					

General Chemistry

Work Order #...: DFMEC-SMP
DFMEC-DUP

Matrix.....: WG

Date Sampled...: 06/29/00 10:00 Date Received...: 06/30/00

STL Norrh Canton

MN FILE COPY

3978



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North Canton, Ohio 44720-6961

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330 497-0772 Fax
www.quanterra.com

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
D75N6	A0A060224-001	W000104-MT-392
D75NA	A0A060224-002	W000104-MT-393

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

January 27, 2000

*CEL read
1-28-00*

CASE NARRATIVE

The following report contains the analytical results for two water samples submitted to Quanterra-North Canton by Conestoga-Rovers & Associates, Inc., project number 3978. The samples were received January 5, 2000, according to documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Ruth Mickle on January 18, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

METALS

Matrix spike/duplicate spike recoveries were outside the acceptance limits for some analytes. The acceptable laboratory control sample analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference. See the Matrix Spike Report for the affected analytes which have been flagged with N.

000001

ANALYTICAL METHODS SUMMARY

AOA060224

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

000002

SAMPLE SUMMARY

A0A060224

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D75N6	001	W000104-MT-392	01/04/00	10:30
D75NA	002	W000104-MT-393	01/04/00	10:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000003

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-392

Influent

GC/MS Volatiles

Lot-Sample #....: A0A060224-001 Work Order #....: D75N6101 Matrix.....: WATER
 Date Sampled....: 01/04/00 10:30 Date Received...: 01/05/00
 Prep Date.....: 01/12/00 Analysis Date...: 01/12/00
 Prep Batch #....: 0013110
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.66	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	0.083 J,B	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	1.1	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	1.4 B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	21	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 140)
Toluene-d8	91	(84 - 112)
Bromofluorobenzene	90	(75 - 122)
Dibromofluoromethane	98	(77 - 127)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

000004

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-393

Effluent

GC/MS Volatiles

Lot-Sample #....: A0A060224-002 Work Order #....: D75NA106 Matrix.....: WATER
 Date Sampled....: 01/04/00 10:30 Date Received...: 01/05/00
 Prep Date.....: 01/11/00 Analysis Date...: 01/11/00
 Prep Batch #....: 0012259
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	LIMIT	REPORTING UNITS
cis-1,2-Dichloroethene	0.39 J	0.50	ug/L
Acetone	1.9 J,B	10	ug/L
Benzene	0.17 J,B	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	4.1	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	1.7 B	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.067 J	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	11	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(64 - 140)
Toluene-d8	94	(84 - 112)
Bromofluorobenzene	90	(75 - 122)
Dibromofluoromethane	103	(77 - 127)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

000005

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-393

DISSOLVED Metals

Lot-Sample #...: A0A060224-002

Matrix.....: WATER

Date Sampled...: 01/04/00 10:30 Date Received...: 01/05/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0007112						
Barium	ND	200	ug/L	SW846 6010B	01/07-01/10/00	D75NA101
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	01/07-01/10/00	D75NA105
		Dilution Factor: 1				
Iron	2140	100	ug/L	SW846 6010B	01/07-01/10/00	D75NA102
		Dilution Factor: 1				
Manganese	1030	15.0	ug/L	SW846 6010B	01/07-01/10/00	D75NA103
		Dilution Factor: 1				
Zinc	43.7	20.0	ug/L	SW846 6010B	01/07-01/10/00	D75NA104
		Dilution Factor: 1				

000006

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W000104-MT-393

General Chemistry

Lot-Sample #....: A0A060224-002 Work Order #....: D75NA Matrix.....: WATER
Date Sampled....: 01/04/00 10:30 Date Received...: 01/05/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	6.8		No Units	MCAWW 150.1	01/05/00	0005450

Dilution Factor: 1

000007

QUALITY CONTROL SECTION

000008

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

* for analyses run on TJA Trace ICP or GFAA only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

Quanterra Incorporated – North Canton Facility, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D7APG102 Matrix.....: WATER
 LCS Lot-Sample#: A0A120000-259
 Prep Date.....: 01/11/00 Analysis Date...: 01/11/00
 Prep Batch #....: 0012259
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	103	(63 - 130)	SW846 8260B
Trichloroethene	96	(75 - 122)	SW846 8260B
Benzene	99	(80 - 116)	SW846 8260B
Toluene	103	(74 - 119)	SW846 8260B
Chlorobenzene	99	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	95	(76 - 109)
Bromofluorobenzene	90	(74 - 116)
Dibromofluoromethane	95	(73 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles.

Client Lot #...: A0A060224 Work Order #...: D7CJ4102 Matrix.....: WATER
 LCS Lot-Sample#: A0A130000-110
 Prep Date.....: 01/12/00 Analysis Date...: 01/12/00
 Prep Batch #...: 0013110
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	93	(63 - 130)	SW846 8260B
Trichloroethene	98	(75 - 122)	SW846 8260B
Benzene	92	(80 - 116)	SW846 8260B
Toluene	98	(74 - 119)	SW846 8260B
Chlorobenzene	97	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	87	(61 - 128)
Toluene-d8	91	(76 - 109)
Bromofluorobenzene	88	(74 - 116)
Dibromofluoromethane	92	(73 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000012

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0A060224

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#:	A0A070000-112	Prep Batch #....: 0007112			
Barium	98	(83 - 113)	SW846 6010B	01/07-01/10/00	D766411T
		Dilution Factor: 1			
Iron	111	(77 - 127)	SW846 6010B	01/07-01/10/00	D766411U
		Dilution Factor: 1			
Manganese	103	(81 - 115)	SW846 6010B	01/07-01/10/00	D766411V
		Dilution Factor: 1			
Zinc	105	(83 - 122)	SW846 6010B	01/07-01/10/00	D766411W
		Dilution Factor: 1			
Chromium	102	(82 - 115)	SW846 6010B	01/07-01/10/00	D766411X
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000013

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0A060224
MB Lot-Sample #: A0A120000-259

Work Order #....: D7APG101

Matrix.....: WATER

Analysis Date...: 01/11/00
Dilution Factor: 1

Prep Date.....: 01/11/00
Prep Batch #....: 0012259

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	1.1 J	10	ug/L		SW846 8260B
Benzene	0.13 J	1.0	ug/L		SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L		SW846 8260B
Chloroform	ND	1.0	ug/L		SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L		SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L		SW846 8260B
Ethylbenzene	ND	1.0	ug/L		SW846 8260B
Methylene chloride	0.13 J	1.0	ug/L		SW846 8260B
Tetrachloroethene	ND	1.0	ug/L		SW846 8260B
Toluene	ND	1.0	ug/L		SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L		SW846 8260B
Trichloroethene	ND	1.0	ug/L		SW846 8260B
Vinyl chloride	ND	1.0	ug/L		SW846 8260B
Xylenes (total)	ND	1.0	ug/L		SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	93	(76 - 109)
Bromofluorobenzene	92	(74 - 116)
Dibromofluoromethane	99	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0A060224
 MB Lot-Sample #: A0A130000-110
 Analysis Date...: 01/12/00
 Dilution Factor: 1

Work Order #....: D7CJ4101
 Prep Date.....: 01/12/00
 Prep Batch #....: 0013110

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Acetone	ND	10	ug/L	SW846 8260B
Benzene	0.25 J	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	0.11 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
1,2-Dichloroethane-d4	94		(61 - 128)	
Toluene-d8	91		(76 - 109)	
Bromofluorobenzene	91		(74 - 116)	
Dibromofluoromethane	94		(73 - 122)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: A0A060224

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0A070000-112 Prep Batch #....: 0007112						
Barium	ND	200	ug/L	SW846 6010B	01/07-01/10/00	D7664114
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	01/07-01/10/00	D7664118
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	01/07-01/10/00	D7664115
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	01/07-01/10/00	D7664116
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	01/07-01/10/00	D7664117
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

000016

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D75GW114-MS Matrix.....: WATER
 MS Lot-Sample #: A0A060208-001 D75GW115-MSD
 Date Sampled....: 01/05/00 13:30 Date Received...: 01/06/00
 Prep Date.....: 01/11/00 Analysis Date...: 01/11/00
 Prep Batch #....: 0012259
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	108	(62 - 130)			SW846 8260B
	107	(62 - 130)	0.85	(0-17)	SW846 8260B
Trichloroethene	101	(62 - 130)			SW846 8260B
	103	(62 - 130)	2.1	(0-14)	SW846 8260B
Benzene	103	(76 - 118)			SW846 8260B
	105	(76 - 118)	2.0	(0-14)	SW846 8260B
Toluene	110	(70 - 119)			SW846 8260B
	113	(70 - 119)	2.3	(0-16)	SW846 8260B
Chlorobenzene	105	(76 - 117)			SW846 8260B
	107	(76 - 117)	1.7	(0-15)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
	98	(61 - 128)
Toluene-d8	97	(76 - 109)
	97	(76 - 109)
Dibromofluoromethane	98	(73 - 122)
	97	(73 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0A060224 Work Order #....: D76GA10C-MS Matrix.....: WATER
 MS Lot-Sample #: A0A070136-001 D76GA10D-MSD
 Date Sampled....: 01/05/00 13:00 Date Received...: 01/07/00
 Prep Date.....: 01/12/00 Analysis Date...: 01/12/00
 Prep Batch #....: 0013110
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(62 - 130)			SW846 8260B
	96	(62 - 130)	0.41	(0-17)	SW846 8260B
Toluene	99	(70 - 119)			SW846 8260B
	97	(70 - 119)	1.2	(0-16)	SW846 8260B
Trichloroethene	96	(62 - 130)			SW846 8260B
	96	(62 - 130)	0.26	(0-14)	SW846 8260B
Benzene	96	(76 - 118)			SW846 8260B
	93	(76 - 118)	2.1	(0-14)	SW846 8260B
Chlorobenzene	96	(76 - 117)			SW846 8260B
	97	(76 - 117)	0.34	(0-15)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
	90	(61 - 128)
Toluene-d8	93	(76 - 109)
	91	(76 - 109)
Dibromofluoromethane	95	(73 - 122)
	91	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

000018

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A0A060224

Matrix.....: WATER

Date Sampled...: 01/05/00 16:00 Date Received...: 01/06/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0A060229-001 Prep Batch #...: 0007112						
Barium	90	(80 - 120)		SW846 6010B	01/07-01/10/00	D75Q112K
	100	(80 - 120) 11	(0-20)	SW846 6010B	01/07-01/10/00	D75Q112L
Dilution Factor: 1						
Iron	67 N	(80 - 120)		SW846 6010B	01/07-01/10/00	D75Q112N
	123 N	(80 - 120) 13	(0-20)	SW846 6010B	01/07-01/10/00	D75Q112P
Dilution Factor: 1						
Manganese	95	(80 - 120)		SW846 6010B	01/07-01/10/00	D75Q112R
	108	(80 - 120) 11	(0-20)	SW846 6010B	01/07-01/10/00	D75Q112T
Dilution Factor: 1						

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

General Chemistry

Work Order #...: D748F-SMP
D748F-DUP

Date Sampled...: 01/04/00 10:00 Date Received...: 01/05/00

000020

Quanterra RECEIVED
JAN 28 2000

Client

Project Manager

Date _____

Chain Of Custody Number: **GRA-01915**

Telephone Number (Area Code)/Fax Number

Lab Number

Page 1 of 1

State

Zip Code

Site Contact

Carrier/Waybill Number	
------------------------	--

Contract/Purchase Order/Quote No.

Analysis

"METALS SAMPLES ARE UNPRESERVED AND NEED TO BE FILTERED AND PRESERVED BY THE LAB"
ALSO NEEDS PH LEVEL TEST TAKEN

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Turn Around Time Required

☐ Normal ☐ Rush

QC Level

☐ I. ☐ II. ☐ III.

Project Specific (Specify)

1. Relinquished By

Date

Time

0104-00

10:30 AM

1. Received By	
----------------	--

Date _____

Time

2. ~~Endorsed~~ **Relinquished By**

Date

Time

2. Received By	
----------------	--

Date _____

Time

3. ~~Ab~~olished By

Date _____

Time

3. Received By	
----------------	--

Date _____

Time

9:45 1500
10:30 AM

Comments

MN FILE COPY

3978-10

ANALYTICAL REPORT

Ruth Mickle
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 3978
WAUSAU SUPERFUND

SEVERN

TRENT

SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

SAMPLE SUMMARY

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>
DNA81	A0J180151-001	W001017-MT-408 SPIGOT
DNA83	A0J180151-002	W001017-MT-409 SPILLWAY GRAB
DNA9C	A0J180151-003	TRIP BLANK

QUANTERRA INCORPORATED

Amy L. McCormick
Amy L. McCormick
Project Manager

October 30, 2000

CASE NARRATIVE

A0J180151

The following report contains the analytical results for two water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Wausau Superfund Site, project number 3978. The samples were received October 18, 2000, according to documented sample acceptance procedures.

Samples were analyzed as instructed by Ruth Mickle on October 18, 2000.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter listed on the analytical methods summary page in accordance with the method indicated. Preliminary results were provided by electronic mail to Ruth Mickle on October 30, 2000. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Sample Trip Blank was received at the laboratory but not listed on the chain-of-custody. It was analyzed per the sample label.

GC/MS VOLATILES

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

ANALYTICAL METHODS SUMMARY

A0J180151

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0J180151

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DNA81	001	W001017-MT-408 SPIGOT	10/17/00	10:30
DNA83	002	W001017-MT-409 SPILLWAY GRAB	10/17/00	10:30
DNA9C	003	TRIP BLANK	10/17/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W001017-MT-408 SPIGOT

GC/MS Volatiles

Lot-Sample #....: A0J180151-001 Work Order #....: DNAB11AA Matrix.....: WG
 Date Sampled....: 10/17/00 10:30 Date Received...: 10/18/00
 Prep Date.....: 10/24/00 Analysis Date...: 10/24/00
 Prep Batch #....: 0299166
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.62	0.50	ug/L
Acetone	0.51 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	0.66 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	18	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	87	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
 B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W001017-MT-409 SPILLWAY GRAB

GC/MS Volatiles

Lot-Sample #....: A0J180151-002 Work Order #....: DNA831AA Matrix.....: WG
 Date Sampled....: 10/17/00 10:30 Date Received...: 10/18/00
 Prep Date.....: 10/24/00 Analysis Date...: 10/24/00
 Prep Batch #....: 0299166
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	0.37 J	0.50	ug/L
Acetone	0.79 J, B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	2.5	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	9.2	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	86	(76 - 110)
Dibromofluoromethane	89	(73 - 122)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: A0J180151-003 Work Order #....: DNA9C1AA Matrix.....: WQ
 Date Sampled....: 10/17/00 Date Received...: 10/18/00
 Prep Date.....: 10/24/00 Analysis Date...: 10/24/00
 Prep Batch #....: 0299166
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
Acetone	0.89 J,B	10	ug/L
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	0.27 J	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(61 - 128)
Toluene-d8	83	(76 - 110)
Dibromofluoromethane	87	(73 - 122)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride

Acetone

2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper

Iron

Zinc

Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), Ohio VAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0J180151 Work Order #....: DNPKG1AC Matrix.....: WATER
 LCS Lot-Sample#: A0J250000-166
 Prep Date.....: 10/24/00 Analysis Date...: 10/24/00
 Prep Batch #....: 0299166
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	108	(63 - 130)	SW846 8260B
Trichloroethene	104	(75 - 122)	SW846 8260B
Benzene	99	(80 - 116)	SW846 8260B
Toluene	105	(74 - 119)	SW846 8260B
Chlorobenzene	108	(76 - 117)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	89	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	81	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A0J180151
MB Lot-Sample #: A0J250000-166

Work Order #....: DNPKG1AA

Matrix.....: WATER

Analysis Date...: 10/24/00
Dilution Factor: 1

Prep Date.....: 10/24/00

Prep Batch #....: 0299166

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	0.79 J	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	83	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A0J180151 Work Order #....: DNJF51AF-MS Matrix.....: WATER
 MS Lot-Sample #: A0J200249-003 DNJF51AG-MSD
 Date Sampled....: 10/19/00 11:30 Date Received...: 10/20/00
 Prep Date.....: 10/24/00 Analysis Date...: 10/24/00
 Prep Batch #....: 0299166
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	96	(62 - 130)			SW846 8260B
	96	(62 - 130)	0.51	(0-20)	SW846 8260B
Trichloroethene	99	(62 - 130)			SW846 8260B
	96	(62 - 130)	2.9	(0-20)	SW846 8260B
Benzene	90	(76 - 118)			SW846 8260B
	88	(76 - 118)	1.4	(0-20)	SW846 8260B
Toluene	97	(70 - 119)			SW846 8260B
	95	(70 - 119)	1.4	(0-20)	SW846 8260B
Chlorobenzene	103	(76 - 117)			SW846 8260B
	94	(76 - 117)	4.1	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(61 - 128)
	87	(61 - 128)
Toluene-d8	87	(76 - 110)
	90	(76 - 110)
Dibromofluoromethane	87	(73 - 122)
	86	(73 - 122)
4-Bromofluorobenzene	87	(74 - 116)
	88	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Chain of Custody Record



QUA-4124 0797

Client MARATHON ELEC. MFG. CORP			Project Manager WALLY MATTSO			Date 10-17-00		Chain of Custody Number 48954	
Address 100 E RANDOLPH ST.			Telephone Number (Area Code)/Fax Number 715-675-3359-4338			Lab Number		Page 1 of 1	
City WAUSAU	State WI	Zip Code 54401	Site Contact WALLY MATTSO		Lab Contact		Analysis (Attach list if more space is needed)		
Project Name REF 3978			Carrier/Waybill Number						

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives										Special Instructions/ Conditions of Receipt
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH				
W001017-MT-408 SPILLWAY GRAB	10/17/00	10:30	X						X				X			3 VIALS @ 40 ML
W001017-MT-409 SPILLWAY GRAB	10/17/00	10:30	X						X				X			3 VIALS @ 40 ML
W001017-MT-409 SPILLWAY GRAB	10/17/00	10:30	X			X							X			1-1 LITER
METAL SAMPLES ARE PRESERVED AND NEED TO BE FILTERED AND PRESERVED BY THE LAB ALSO NEEDS PH LEVELS TEST TAKEN																

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____	

1. Relinquished By Marlin Hunt	Date 10/17/00	Time 10:30	1. Received By Jenny Stiller	Date 10-18-00	Time 9:20A
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

QUA-4124 0797

NOV 01 2000



QUA-4124 0797

Contract/Purchase Order/Quote No.	Matrix	Containers & Preservatives	Conditions of Receipt									
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Possible Hazard Identification					Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)	
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Return To Client	☐ Disposal By Lab	☐ Archive For _____ Months		

Comments

DISTRIBUTION: WHITE - Given with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

APPENDIX C

WAUSAU CHEMICAL SVE MONITORING DATA

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WC BlowerExh	StartUp	1/5/94	390.0	010503	9.6	296.0	5,040.0	5,346
WC BlowerExh	StartUp	1/5/94	280.0	010514	13.8	167.0	3,160.0	3,341
WC BlowerExh	StartUp	1/6/94	170.0	010603	17.7	105.0	2,430.0	2,553
WC BlowerExh	StartUp	1/7/94	142.0	010703	13.6	71.0	1,120.0	1,205
WC BlowerExh	StartUp	1/8/94	135.0	010806	10.2	55.0	851.0	916
WC BlowerExh	Week 3	1/24/94	47.0	ns	ns	ns	ns	ns
WC BlowerExh	Week 3	1/25/94	46.0	ns	ns	ns	ns	ns
WC BlowerExh	Week 3	1/26/94	42.0	ns	ns	ns	ns	ns
WC BlowerExh	Week 3	1/27/94	37.0	ns	ns	ns	ns	ns
WC BlowerExh	Week 3	1/28/94	34.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 1	2/7/94	36.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 1	2/8/94	38.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 1	2/9/94	37.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 2	3/9/94	28.0	030916	0.9	16.2	454.0	471
WC BlowerExh	Quarter 1	4/15/94	36.0	041523	1.3	20.0	590.0	611
WC BlowerExh	Month 4	5/12/94	12.2	ns	ns	ns	ns	ns
WC BlowerExh	Month 5	6/9/94	22.0	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 2	8/15/94	15.4	081507	<9.0	6.0	282.0	288
WC BlowerExh	Month 7	8/30/94	14.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 8	9/30/94	*18.4	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 3	10/21/94	*8.5	102124	1.1	7.6	>140.0	>149
WC BlowerExh	Month 10	11/29/94	7.4	ns	ns	ns	ns	ns
WC BlowerExh	Month 11	12/13/94	7.2	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 4	1/13/95	11.0	011320	<1.0	3.9	150.0	154
WC BlowerExh	Month 13	2/8/95	6.7	ns	ns	ns	ns	ns
WC BlowerExh	Month 14	3/15/95	6.2	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 5	4/11/95	9.3	041122	1.0	2.9	72.5	78
WC BlowerExh	Month 16	5/19/95	5.7	ns	ns	ns	ns	ns
WC BlowerExh	Month 17	6/9/95	6.0	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 6	7/21/95	15.5	072117	<0.5	5.0	317.0	322
WC BlowerExh	Month 19	8/21/95	4.2	ns	ns	ns	ns	ns
WC BlowerExh	Month 20	9/21/95	3.6	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 7	10/20/95	9.0	102019	<0.8	4.1	118.0	122
WC BlowerExh	Month 22	11/21/95	6.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 23	1/11/96	2.9	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 8	1/24/96	9.8	012414	2.7	3.4	81.2	88
WC BlowerExh	Month 25	2/19/96	5.6	ns	ns	ns	ns	ns
WC BlowerExh	Month 26	3/27/96	3.0	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 9	4/23/96	5.3	042314	1.8	1.5	52.0	57
WC BlowerExh	Month 28	5/22/96	4.6	ns	ns	ns	ns	ns
WC BlowerExh	Month 29	6/28/96	4.0	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 10	7/31/96	13.5	073115	4.7	3.6	150.0	158

TABLE C-1

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WC BlowerExh	Month 31	8/28/96	5.2	ns	ns	ns	ns	ns
WC BlowerExh	Month 32	9/19/96	5.3	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 11	10/23/96	14.0	102314	5.5	4.8	176.0	187
WC BlowerExh	Month 34	11/21/96	3.8	ns	ns	ns	ns	ns
WC BlowerExh	Month 35	12/27/96	3.5	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 12	1/23/97	3.2	012314	1.9	1.6	33.5	43
WC BlowerExh	Month 37	3/11/97	2.6	ns	ns	ns	ns	ns
WC BlowerExh	Month 38	3/21/97	1.4	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 13	4/24/97	**2.7	042408	2.0	1.0	25.8	29
WC BlowerExh	Month 40	5/28/97	3.8	ns	ns	ns	ns	ns
WC BlowerExh	Month 41	6/26/97	3.9	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 14	7/25/97	6.6	072515	12.0	5.6	95.8	114
WC BlowerExh	Month 43	9/9/97	3.7	ns	ns	ns	ns	ns
WC BlowerExh	Month 44	9/23/97	15.0	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 15	10/15/97	3.8	101515	<0.3	4.4	70.8	76
WC BlowerExh	Month 46	11/19/97	2.5	ns	ns	ns	ns	ns
WC BlowerExh	Month 47	12/23/97	2.4	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 16	1/23/98	3.0	012314	<0.4	0.8	42.2	43
WC BlowerExh	Month 49	2/24/98	1.9	ns	ns	ns	ns	ns
WC BlowerExh	Month 50	3/25/98	0.8	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 17	4/10/98	1.9	041008	0.4	0.6	22.0	24
WC BlowerExh	Month 52	5/22/98	0.6	ns	ns	ns	ns	ns
WC BlowerExh	Month 53	6/15/98	1.7	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 18	7/31/98	5.5	073113	<0.3	0.7	125.0	126
WC BlowerExh	Month 55	8/25/98	1.1	ns	ns	ns	ns	ns
WC BlowerExh	Month 56	9/21/98	12.2	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 19	10/29/98	4.5	102913	<0.2	<0.4	50.2	51
WC BlowerExh	Month 58	11/23/98	1.2	ns	ns	ns	ns	ns
WC BlowerExh	Month 59	12/23/98	1.4	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 20	1/22/99	2.4	012212	0.2	0.7	28.0	29
WC BlowerExh	Month 61	2/25/99	0.8	ns	ns	ns	ns	ns
WC BlowerExh	Month 62	3/23/99	1.2	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 21	4/23/99	2.0	042312	<0.1	0.2	22.8	23
WC BlowerExh	Month 64	5/21/99	1.4	ns	ns	ns	ns	ns
WC BlowerExh	Month 65	6/18/99	1.9	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 22	7/29/99	3.3	072916	0.6	1.2	57.0	59
WC BlowerExh	Month 67	8/27/99	7.0	ns	ns	ns	ns	ns
WC BlowerExh	Month 68	9/13/99	2.4	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 23	10/7/99	4.0	100713	0.2	0.7	42.0	43
WC BlowerExh	Month 70	11/17/99	2.5	ns	ns	ns	ns	ns
WC BlowerExh	Month 71	12/17/99	1.1	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 24	1/19/00	2.1	011914	<0.1	0.4	20.0	21

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WC BlowerExh	Month 73	2/14/00	1.4	ns	ns	ns	ns	ns
WC BlowerExh	Month 74	3/10/00	0.7	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 25	4/19/00	1.6	041914	0.1	0.4	12.9	14
WC BlowerExh	Month 76	5/24/00	1.3	ns	ns	ns	ns	ns
WC BlowerExh	Month 77	6/19/00	1.7	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 26	7/27/00	3.1	072713	0.5	0.8	36.9	39
WC BlowerExh	Month 79	8/16/00	1.8	ns	ns	ns	ns	ns
WC BlowerExh	Month 80	9/25/00	1.3	ns	ns	ns	ns	ns
WC BlowerExh	Quarter 27	10/25/00	2.9	102513	<0.1	<0.2	49.4	50
WC BlowerExh	Month 82	11/22/00	1.3	ns	ns	ns	ns	ns
WC BlowerExh	Month 83	12/28/00	1.0	ns	ns	ns	ns	ns
WC BtwnCarbon	StartUp	1/5/94	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	StartUp	1/6/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	StartUp	1/7/94	0.5	ns	ns	ns	ns	ns
WC BtwnCarbon	StartUp	1/8/94	5.0	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 1	1/10/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 1	1/11/94	0.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 1	1/12/94	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 1	1/13/94	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 1	1/14/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 2	1/17/94	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 2	1/18/94	0.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 2	1/19/94	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 2	1/20/94	0.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 2	1/21/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 3	1/24/94	0.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 3	1/25/94	0.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 3	1/26/94	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 3	1/27/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Week 3	1/28/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 1	2/7/94	0.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 1	2/8/94	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 1	2/9/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 2	3/9/94	0.4	030915	0.1	<0.2	<0.5	<1
WC BtwnCarbon	Quarter 1	4/15/94	2.6	041514	1.8	6.2	21.0	20
WC BtwnCarbon	Month 4	5/12/94	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 5	6/9/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 2	8/15/94	0.6	081508	<0.9	<1.9	<2.8	<6
WC BtwnCarbon	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 8	9/30/94	*0.0	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 3	ns	ns	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WC BtwnCarbon	Month 10	11/29/94	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 11	12/13/94	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 4	1/13/95	0.3	011319	0.6	<0.2	0.3	1
WC BtwnCarbon	Month 13	2/8/95	0.7	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 14	3/15/95	3.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 5	4/11/95	2.1	041123	1.3	3.9	13.6	19
WC BtwnCarbon	Month 16	5/19/95	1.0	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 17	6/9/95	0.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 6	7/21/95	0.5	072118	1.8	<0.2	<0.5	2
WC BtwnCarbon	Month 19	8/21/95	1.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 20	9/21/95	1.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 7	10/20/95	3.5	102017	1.1	<0.4	1.2	3
WC BtwnCarbon	Month 22	11/21/95	6.8	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 8	1/24/96	1.0	012415	1.6	<0.2	1.0	3
WC BtwnCarbon	Month 25	2/19/96	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 26	3/27/96	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 9	4/23/96	0.2	042315	2.0	0.8	0.5	4
WC BtwnCarbon	Month 28	5/22/96	3.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 29	6/28/96	3.9	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 10	7/31/96	1.8	073116	1.6	2.0	14.5	19
WC BtwnCarbon	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 32	9/19/96	1.0	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 11	10/23/96	3.2	102315	<0.1	4.8	4.7	10
WC BtwnCarbon	Month 34	11/21/96	2.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 35	12/27/96	4.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 12	1/23/97	3.2	012315	1.8	5.0	43.5	51
WC BtwnCarbon	Month 37	3/11/97	2.9	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 38	3/21/97	2.8	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 13	4/24/97	**0.0	042409	1.6	<0.2	0.6	3
WC BtwnCarbon	Month 40	5/28/97	0.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 41	6/26/97	0.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 14	7/25/97	1.4	072516	3.3	4.7	3.0	11
WC BtwnCarbon	Month 43	9/9/97	0.7	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 44	9/23/97	1.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 15	10/15/97	2.6	101516	<0.2	5.2	35.0	41
WC BtwnCarbon	Month 46	11/19/97	1.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 47	12/23/97	1.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 16	1/23/98	2.8	012315	<0.4	<0.8	43.4	44
WC BtwnCarbon	Month 49	2/24/98	2.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 50	3/25/98	1.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 17	4/10/98	1.3	041009	0.1	0.4	13.4	14

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WC BtwnCarbon	Month 52	5/22/98	1.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 53	6/15/98	4.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 18	7/31/98	2.9	073114	<0.2	<0.4	21.3	22
WC BtwnCarbon	Month 55	8/25/98	5.7	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 56	9/21/98	8.7	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 19	10/29/98	1.3	102914	<0.1	<0.2	10.7	11
WC BtwnCarbon	Month 58	11/23/98	2.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 59	12/23/98	3.6	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 20	1/22/99	2.3	012213	0.1	0.5	27.3	28
WC BtwnCarbon	Month 61	2/25/99	0.7	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 62	3/23/99	2.4	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 21	4/23/99	0.6	042313	<0.1	<0.2	7.9	8
WC BtwnCarbon	Month 64	5/21/99	2.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 65	6/18/99	3.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 22	7/29/99	0.0	072917	<0.1	<0.2	<0.5	<1
WC BtwnCarbon	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 23	10/7/99	9.6	100714	<0.1	<0.2	<0.5	<1
WC BtwnCarbon	Month 70	11/17/99	0.9	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 71	12/17/99	0.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 24	1/19/00	0.0	011915	<0.1	<0.2	<0.5	<1
WC BtwnCarbon	Month 73	2/14/00	0.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 74	3/10/00	0.1	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 25	4/19/00	0.1	041915	0.2	<0.2	<0.5	1
WC BtwnCarbon	Month 76	5/24/00	0.3	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 77	6/19/00	0.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 26	7/27/00	0.8	072714	0.3	0.7	8.3	10
WC BtwnCarbon	Month 79	8/16/00	1.5	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 80	9/25/00	1.0	ns	ns	ns	ns	ns
WC BtwnCarbon	Quarter 27	10/25/00	0.6	102514	<0.1	<0.2	6.7	7
WC BtwnCarbon	Month 82	11/22/00	2.2	ns	ns	ns	ns	ns
WC BtwnCarbon	Month 83	12/28/00	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 2	3/9/94	1.7	ns	ns	ns	ns	ns
WC StackExh	Quarter 1	4/15/94	0.6	041210	<0.1	<0.2	<0.5	<1
WC StackExh	Month 4	5/12/94	2.3	ns	ns	ns	ns	ns
WC StackExh	Month 5	6/9/94	0.4	ns	ns	ns	ns	ns
WC StackExh	Quarter 2	8/15/94	0.7	081509	<0.4	<0.4	<0.5	<2
WC StackExh	Month 7	8/30/94	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns
WC StackExh	Quarter 3	10/21/94	*0.8	102123	<0.9	<1.0	<1.0	<3
WC StackExh	Month 10	11/29/94	0.2	ns	ns	ns	ns	ns

TABLE C-1

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WC StackExh	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns
WC StackExh	Quarter 4	1/13/95	0.2	011318	<0.2	<0.2	0.7	1
WC StackExh	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns
WC StackExh	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns
WC StackExh	Quarter 5	4/11/95	0.6	041124	<0.1	<0.2	2.7	3
WC StackExh	Month 16	5/19/95	1.4	ns	ns	ns	ns	ns
WC StackExh	Month 17	6/9/95	0.3	ns	ns	ns	ns	ns
WC StackExh	Quarter 6	7/21/95	0.3	072119	<0.1	<0.2	0.5	1
WC StackExh	Month 19	8/21/95	0.4	ns	ns	ns	ns	ns
WC StackExh	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns
WC StackExh	Quarter 7	10/20/95	0.4	102018	<0.4	<0.4	1.1	2
WC StackExh	Month 22	11/21/95	0.2	ns	ns	ns	ns	ns
WC StackExh	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns
WC StackExh	Quarter 8	1/24/96	0.0	012416	<0.1	<0.2	1.5	2
WC StackExh	Month 25	2/19/96	0.5	ns	ns	ns	ns	ns
WC StackExh	Month 26	3/27/96	0.6	ns	ns	ns	ns	ns
WC StackExh	Quarter 9	4/23/96	0.0	042316	<0.1	<0.2	0.5	1
WC StackExh	Month 28	5/22/96	0.6	ns	ns	ns	ns	ns
WC StackExh	Month 29	6/28/96	0.4	ns	ns	ns	ns	ns
WC StackExh	Quarter 10	7/31/96	0.8	073117	3.0	<0.2	0.5	4
WC StackExh	Month 31	8/28/96	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 32	9/19/96	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 11	10/23/96	1.2	102316	<0.1	<0.2	0.8	1
WC StackExh	Month 34	11/21/96	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 35	12/27/96	*ns	ns	ns	ns	ns	ns
WC StackExh	Quarter 12	1/23/97	0.0	012316	1.8	0.9	0.9	4
WC StackExh	Month 37	3/11/97	0.3	ns	ns	ns	ns	ns
WC StackExh	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 13	4/24/97	**0.0	042410	<0.1	<0.2	<0.5	<1
WC StackExh	Month 40	5/28/97	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 41	6/26/97	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 14	7/25/97	1.0	072517	<0.1	<0.2	0.8	1
WC StackExh	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 15	10/15/97	0.0	101517	3.0	<0.2	1.2	5
WC StackExh	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns
WC StackExh	Quarter 16	1/23/98	0.5	012316	1.2	1.4	0.9	4
WC StackExh	Month 49	2/24/98	0.2	ns	ns	ns	ns	ns
WC StackExh	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 17	4/10/98	0.3	041010	1.1	0.9	<0.5	3
WC StackExh	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WC StackExh	Month 53	6/15/98	0.2	ns	ns	ns	ns	ns
WC StackExh	Quarter 18	7/31/98	1.6	073115	<0.1	5.4	19.1	25
WC StackExh	Month 55	8/25/98	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 19	10/29/98	0.2	102915	<0.1	<0.2	<0.5	<1
WC StackExh	Month 58	11/23/98	2.0	ns	ns	ns	ns	ns
WC StackExh	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 20	1/22/99	2.6	012214	0.6	3.6	18.2	23
WC StackExh	Month 61	2/25/99	0.3	ns	ns	ns	ns	ns
WC StackExh	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 21	4/23/99	1.0	042314	<0.1	1.3	10.0	12
WC StackExh	Month 64	5/21/99	2.2	ns	ns	ns	ns	ns
WC StackExh	Month 65	6/18/99	1.8	ns	ns	ns	ns	ns
WC StackExh	Quarter 22	7/29/99	0.0	072918	<0.1	<0.2	<0.5	<1
WC StackExh	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 68	9/13/99	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 23	10/7/99	2.4	100715	<0.1	<0.2	<0.5	<1
WC StackExh	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 24	1/19/00	0.0	011916	<0.1	<0.2	<0.5	<1
WC StackExh	Month 73	2/14/00	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 25	4/19/00	0.0	041916	<0.1	<0.2	<0.5	<1
WC StackExh	Month 76	5/24/00	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 26	7/27/00	0.2	072715	<0.1	<0.2	<0.5	<1
WC StackExh	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns
WC StackExh	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns
WC StackExh	Quarter 27	10/25/00	0.1	102515	<0.1	<0.2	<0.5	<1
WC StackExh	Month 82	11/22/00	0.1	ns	ns	ns	ns	ns
WC StackExh	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns
WCSVEW-1	StartUp	1/5/94	6.1	010504	<0.1	<1.9	109.0	109
WCSVEW-1	StartUp	1/6/94	30.0	010604	<0.9	<1.9	221.0	221
WCSVEW-1	StartUp	1/7/94	26.0	010704	<0.9	<1.9	166.0	166
WCSVEW-1	StartUp	1/8/94	22.0	010804	<0.1	0.3	154.0	154
WCSVEW-1	Month 2	3/9/94	3.0	ns	ns	ns	ns	ns
WCSVEW-1	Quarter 1	4/15/94	3.0	041521	<0.1	0.3	30.3	30
WCSVEW-1	Month 4	5/12/94	4.0	ns	ns	ns	ns	ns
WCSVEW-1	Month 5	6/9/94	4.0	ns	ns	ns	ns	ns
WCSVEW-1	Quarter 2	8/15/94	2.2	081504	<0.9	<1.9	42.2	42
WCSVEW-1	Month 7	8/30/94	2.0	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WCSVIEW-1	Month 8	9/30/94	*1.8	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 3	11/4/94	2.6	110402	<0.9	1.1	16.6	18
WCSVIEW-1	Month 10	11/29/94	1.1	ns	ns	ns	ns	ns
WCSVIEW-1	Month 11	12/13/94	2.2	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 4	1/13/95	1.0	011322	<0.2	<0.2	8.6	9
WCSVIEW-1	Month 13	2/8/95	0.8	ns	ns	ns	ns	ns
WCSVIEW-1	Month 14	3/15/95	1.1	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 5	4/11/95	9.3	041117	7.1	9.1	30.7	47
WCSVIEW-1	Month 16	5/19/95	ns	ns	ns	ns	ns	ns
WCSVIEW-1	Month 17	6/9/95	1.0	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 6	7/21/95	4.5	072112	<0.1	<0.2	23.1	23
WCSVIEW-1	Month 19	8/21/95	2.0	ns	ns	ns	ns	ns
WCSVIEW-1	Month 20	9/21/95	1.8	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 7	10/20/95	1.4	102013	<0.4	<0.4	9.8	10
WCSVIEW-1	Month 22	11/21/95	7.0	ns	ns	ns	ns	ns
WCSVIEW-1	Month 23	1/11/96	0.4	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 8	1/24/96	0.4	012413	<0.1	<0.2	2.2	3
WCSVIEW-1	Month 25	2/19/96	1.0	ns	ns	ns	ns	ns
WCSVIEW-1	Month 26	3/27/96	0.8	ns	ns	ns	ns	ns
WCSVIEW-1	Quarter 9	4/23/96	8.0	042310	2.9	2.6	93.6	100
WCSVIEW-1	Month 28	5/22/96	2.7	ns	ns	ns	ns	ns
WCSVIEW-5	Month 29	6/28/96	2.0	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 10	7/31/96	5.2	073113	2.4	1.5	41.7	46
WCSVIEW-5	Month 31	8/28/96	2.4	ns	ns	ns	ns	ns
WCSVIEW-5	Month 32	9/19/96	2.0	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 11	10/23/96	6.0	102312	4.2	3.0	45.1	55
WCSVIEW-5	Month 34	11/21/96	2.9	ns	ns	ns	ns	ns
WCSVIEW-5	Month 35	12/27/96	1.8	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 12	1/23/97	6.3	012312	3.6	3.8	82.8	103
WCSVIEW-5	Month 37	3/11/97	5.4	ns	ns	ns	ns	ns
WCSVIEW-5	Month 38	3/21/97	3.6	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 13	4/24/97	**3.1	042403	6.0	1.3	43.2	52
WCSVIEW-5	Month 40	5/28/97	3.6	ns	ns	ns	ns	ns
WCSVIEW-5	Month 41	6/26/97	3.7	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 14	7/25/97	6.7	072511	6.8	2.8	57.5	68
WCSVIEW-5	Month 43	9/9/97	3.5	ns	ns	ns	ns	ns
WCSVIEW-5	Month 44	9/23/97	3.3	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 15	10/15/97	6.8	101511	11.3	5.4	77.7	99
WCSVIEW-5	Month 46	11/19/97	3.1	ns	ns	ns	ns	ns
WCSVIEW-5	Month 47	12/23/97	3.1	ns	ns	ns	ns	ns
WCSVIEW-5	Quarter 16	1/23/98	3.6	012310	1.1	1.0	42.0	45
WCSVIEW-5	Month 49	2/24/98	2.4	ns	ns	ns	ns	ns

TABLE C-1

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WCSVEW-5	Month 50	3/25/98	2.8	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 17	4/10/98	3.3	041004	1.2	1.3	40.4	44
WCSVEW-5	Month 52	5/22/98	0.2	ns	ns	ns	ns	ns
WCSVEW-5	Month 53	6/15/98	2.0	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 18	7/31/98	7.8	073109	<0.5	<1.0	142.0	142
WCSVEW-5	Month 55	8/25/98	3.7	ns	ns	ns	ns	ns
WCSVEW-5	Month 56	9/21/98	6.2	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 19	10/29/98	4.3	102909	<0.2	<0.4	49.7	50
WCSVEW-5	Month 58	11/23/98	1.4	ns	ns	ns	ns	ns
WCSVEW-5	Month 59	12/23/98	1.8	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 20	1/22/99	2.9	012208	0.8	1.1	35.6	38
WCSVEW-5	Month 61	2/25/99	1.1	ns	ns	ns	ns	ns
WCSVEW-5	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 21	4/23/99	2.6	042308	0.5	0.7	39.3	41
WCSVEW-5	Month 64	5/21/99	0.8	ns	ns	ns	ns	ns
WCSVEW-5	Month 65	6/18/99	0.0	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 22	7/29/99	3.2	072912	1.5	1.9	46.4	50
WCSVEW-5	Month 67	8/27/99	13.7	ns	ns	ns	ns	ns
WCSVEW-5	Month 68	9/13/99	1.7	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 23	10/7/99	2.0	100709	1.1	1.5	40.2	43
WCSVEW-5	Month 70	11/17/99	2.1	ns	ns	ns	ns	ns
WCSVEW-5	Month 71	12/17/99	1.2	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 24	1/19/00	2.6	011911	0.7	0.9	17.5	20
WCSVEW-5	Month 73	2/14/00	1.8	ns	ns	ns	ns	ns
WCSVEW-5	Month 74	3/10/00	1.0	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 25	4/19/00	2.8	041910	0.7	1.0	29.4	32
WCSVEW-5	Month 76	5/24/00	2.1	ns	ns	ns	ns	ns
WCSVEW-5	Month 77	6/19/00	1.4	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 26	7/27/00	6.0	072709	1.0	1.5	87.5	90
WCSVEW-5	Month 79	8/16/00	2.2	ns	ns	ns	ns	ns
WCSVEW-5	Month 80	9/25/00	2.1	ns	ns	ns	ns	ns
WCSVEW-5	Quarter 27	10/25/00	5.3	102509	<0.2	<0.4	101.0	101
WCSVEW-5	Month 82	11/22/00	2.4	ns	ns	ns	ns	ns
WCSVEW-5	Month 83	12/28/00	1.4	ns	ns	ns	ns	ns
WCSVEW-2	StartUp	1/5/94	80.0	010505	15.0	530.0	>4,770.0	>5,320
WCSVEW-2	StartUp	1/6/94	500.0	010605	49.9	369.0	6,820.0	7,239
WCSVEW-2	StartUp	1/7/94	410.0	010705	46.9	326.0	6,480.0	6,853
WCSVEW-2	StartUp	1/8/94	410.0	010807	45.4	404.0	8,530.0	8,979
WCSVEW-2	Month 2	3/9/94	96.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 1	4/15/94	114.0	041524	0.8	26.7	712.0	740
WCSVEW-2	Month 4	5/12/94	45.0	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WCSVEW-2	Month 5	6/9/94	76.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 2	8/15/94	56.0	081506	<22.5	40.8	1,180.0	1,221
WCSVEW-2	Month 7	8/30/94	56.0	ns	ns	ns	ns	ns
WCSVEW-2	Month 8	9/30/94	*50.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 3	11/4/94	43.0	110404	<0.9	1.9	39.6	42
WCSVEW-2	Month 10	11/29/94	33.0	ns	ns	ns	ns	ns
WCSVEW-2	Month 11	12/13/94	32.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 4	1/13/95	48.0	011324	<5.0	26.9	1125.0	1152
WCSVEW-2	Month 13	2/8/95	30.0	ns	ns	ns	ns	ns
WCSVEW-2	Month 14	3/15/95	27.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 5	4/11/95	51.0	041118	<2.5	<5.0	980.0	980
WCSVEW-2	Month 16	5/19/95	ns	ns	ns	ns	ns	ns
WCSVEW-2	Month 17	6/9/95	25.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 6	7/21/95	35.0	072114	1.4	25.6	686.0	722
WCSVEW-2	Month 19	8/21/95	12.8	ns	ns	ns	ns	ns
WCSVEW-2	Month 20	9/21/95	10.8	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 7	10/20/95	25.0	102014	<4.0	22.4	386.0	418
WCSVEW-2	Month 22	11/21/95	20.0	ns	ns	ns	ns	ns
WCSVEW-2	Month 23	1/11/96	9.9	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 8	1/24/96	30.0	012412	13.7	20.5	350.0	387
WCSVEW-2	Month 25	2/19/96	16.8	ns	ns	ns	ns	ns
WCSVEW-2	Month 26	3/27/96	7.3	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 9	4/23/96	7.6	042311	1.9	3.7	63.6	70
WCSVEW-2	Month 28	5/22/96	9.6	ns	ns	ns	ns	ns
WCSVEW-2	Month 29	6/28/96	10.9	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 10	7/31/96	30.0	073111	<2.5	25.0	338.0	363
WCSVEW-2	Month 31	8/28/96	0.0	ns	ns	ns	ns	ns
WCSVEW-2	Month 32	9/19/96	19.4	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 11	10/23/96	22.0	102310	<1.5	28.4	495.0	546
WCSVEW-2	Month 34	11/21/96	6.7	ns	ns	ns	ns	ns
WCSVEW-2	Month 35	12/27/96	7.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 12	1/23/97	10.3	012310	3.6	4.1	98.6	122
WCSVEW-2	Month 37	3/11/97	5.4	ns	ns	ns	ns	ns
WCSVEW-2	Month 38	3/21/97	4.0	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 13	4/24/97	**4.1	042404	7.9	3.3	41.7	53
WCSVEW-2	Month 40	5/28/97	5.2	ns	ns	ns	ns	ns
WCSVEW-2	Month 41	6/26/97	6.3	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 14	7/25/97	10.4	072512	12.1	10.2	180.0	217
WCSVEW-2	Month 43	9/9/97	2.1	ns	ns	ns	ns	ns
WCSVEW-2	Month 44	9/23/97	10.4	ns	ns	ns	ns	ns
WCSVEW-2	Quarter 15	10/15/97	8.2	101512	11.9	7.8	158.0	178
WCSVEW-2	Month 46	11/19/97	3.9	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WCSVIEW-2	Month 47	12/23/97	4.6	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 16	1/23/98	8.2	012311	<0.8	3.0	112.0	115
WCSVIEW-2	Month 49	2/24/98	3.9	ns	ns	ns	ns	ns
WCSVIEW-2	Month 50	3/25/98	4.3	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 17	4/10/98	3.3	041005	0.4	1.8	42.8	45
WCSVIEW-2	Month 52	5/22/98	2.5	ns	ns	ns	ns	ns
WCSVIEW-2	Month 53	6/15/98	2.9	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 18	7/31/98	6.0	073110	<0.4	3.8	163.0	167
WCSVIEW-2	Month 55	8/25/98	4.8	ns	ns	ns	ns	ns
WCSVIEW-2	Month 56	9/21/98	9.2	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 19	10/29/98	7.3	102910	<0.4	<0.8	88.7	89
WCSVIEW-2	Month 58	11/23/98	2.2	ns	ns	ns	ns	ns
WCSVIEW-2	Month 59	12/23/98	2.2	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 20	1/22/99	3.8	012209	0.3	1.8	47.5	50
WCSVIEW-2	Month 61	2/25/99	2.0	ns	ns	ns	ns	ns
WCSVIEW-2	Month 62	3/23/99	2.0	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 21	4/23/99	2.4	042309	<0.2	<0.4	17.8	18
WCSVIEW-2	Month 64	5/21/99	1.2	ns	ns	ns	ns	ns
WCSVIEW-2	Month 65	6/18/99	1.9	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 22	7/29/99	4.7	072913	0.5	3.1	88.6	93
WCSVIEW-2	Month 67	8/27/99	5.4	ns	ns	ns	ns	ns
WCSVIEW-2	Month 68	9/13/99	2.7	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 23	10/7/99	2.8	100710	0.4	2.0	64.6	67
WCSVIEW-2	Month 70	11/17/99	2.7	ns	ns	ns	ns	ns
WCSVIEW-2	Month 71	12/17/99	2.3	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 24	1/19/00	4.8	011912	0.1	1.7	52.2	55
WCSVIEW-2	Month 73	2/14/00	2.4	ns	ns	ns	ns	ns
WCSVIEW-2	Month 74	3/10/00	1.2	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 25	4/19/00	3.2	041911	0.3	1.1	31.0	33
WCSVIEW-2	Month 76	5/24/00	2.3	ns	ns	ns	ns	ns
WCSVIEW-2	Month 77	6/19/00	2.1	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 26	7/27/00	4.8	072710	0.8	3.1	65.1	69
WCSVIEW-2	Month 79	8/16/00	2.5	ns	ns	ns	ns	ns
WCSVIEW-2	Month 80	9/25/00	1.9	ns	ns	ns	ns	ns
WCSVIEW-2	Quarter 27	10/25/00	4.7	102510	<0.2	1.3	82.8	85
WCSVIEW-2	Month 82	11/22/00	2.0	ns	ns	ns	ns	ns
WCSVIEW-2	Month 83	12/28/00	1.8	ns	ns	ns	ns	ns
WCSVIEW-3	StartUp	1/5/94	45.0	010509	0.5	<1.0	16.8	17
WCSVIEW-3	StartUp	1/5/94	1.1	010513	<0.1	<0.2	6.5	7
WCSVIEW-3	StartUp	1/6/94	4.4	010606	<0.9	<1.9	12.0	12
WCSVIEW-3	StartUp	1/7/94	4.4	010706	<0.1	<0.2	9.0	9

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WCSVIEW-3	StartUp	1/8/94	2.3	010803	<0.1	<0.2	8.4	8
WCSVIEW-3	Month 2	3/9/94	0.8	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 1	4/15/94	0.7	041515	<0.1	<0.2	6.9	7
WCSVIEW-3	Month 4	5/12/94	0.8	ns	ns	ns	ns	ns
WCSVIEW-3	Month 5	6/9/94	0.9	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 2	8/15/94	0.6	081503	<0.4	<0.4	5.0	5
WCSVIEW-3	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns
WCSVIEW-3	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 3	11/4/94	0.2	110401	<0.9	<1.0	<1.0	<3
WCSVIEW-3	Month 10	11/29/94	1.4	ns	ns	ns	ns	ns
WCSVIEW-3	Month 11	12/13/94	0.6	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 4	1/13/95	0.2	011321	<0.2	<0.2	0.9	1
WCSVIEW-3	Month 13	2/8/95	0.6	ns	ns	ns	ns	ns
WCSVIEW-3	Month 14	3/15/95	1.1	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 5	4/11/95	2.5	041119	<0.1	<0.2	1.4	2
WCSVIEW-3	Month 16	5/19/95	1.0	ns	ns	ns	ns	ns
WCSVIEW-3	Month 17	6/9/95	5.0	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 6	7/21/95	0.9	072115	<0.1	<0.2	2.9	3
WCSVIEW-3	Month 19	8/21/95	0.4	ns	ns	ns	ns	ns
WCSVIEW-3	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 7	10/20/95	0.9	102015	<0.4	<0.4	2.3	3
WCSVIEW-3	Month 22	11/21/95	65.0	ns	ns	ns	ns	ns
WCSVIEW-3	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 8	1/24/96	0.1	012409	<0.1	<0.2	<0.5	<1
WCSVIEW-3	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns
WCSVIEW-3	Month 26	3/27/96	0.7	ns	ns	ns	ns	ns
WCSVIEW-3	Quarter 9	4/23/96	5.5	042312	1.9	1.6	57.9	62
WCSVIEW-3	Month 28	5/22/96	7.1	ns	ns	ns	ns	ns
WCSVIEW-6	Month 29	6/28/96	3.4	ns	ns	ns	ns	ns
WCSVIEW-6	Quarter 10	7/31/96	6.2	073114	2.0	1.6	49.0	53
WCSVIEW-6	Month 31	8/28/96	3.8	ns	ns	ns	ns	ns
WCSVIEW-6	Month 32	9/19/96	2.7	ns	ns	ns	ns	ns
WCSVIEW-6	Quarter 11	10/23/96	3.0	102313	2.1	1.1	15.9	20
WCSVIEW-6	Month 34	11/21/96	2.4	ns	ns	ns	ns	ns
WCSVIEW-6	Month 35	12/27/96	2.2	ns	ns	ns	ns	ns
WCSVIEW-6	Quarter 12	1/23/97	1.4	012313	2.0	1.2	17.9	22
WCSVIEW-6	Month 37	3/11/97	1.5	ns	ns	ns	ns	ns
WCSVIEW-6	Month 38	3/21/97	1.0	ns	ns	ns	ns	ns
WCSVIEW-6	Quarter 13	4/24/97	**1.7	042407	3.2	1.0	103.0	107
WCSVIEW-6	Month 40	5/28/97	9.4	ns	ns	ns	ns	ns
WCSVIEW-6	Month 41	6/26/97	8.9	ns	ns	ns	ns	ns
WCSVIEW-6	Quarter 14	7/25/97	9.2	072514	11.7	4.1	124.0	140

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WCSVEW-6	Month 43	9/9/97	8.5	ns	ns	ns	ns	ns
WCSVEW-6	Month 44	9/23/97	22.0	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 15	10/15/97	1.5	101514	6.1	2.5	27.2	36
WCSVEW-6	Month 46	11/19/97	8.9	ns	ns	ns	ns	ns
WCSVEW-6	Month 47	12/23/97	1.9	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 16	1/23/98	2.3	012313	<0.3	<0.6	31.8	32
WCSVEW-6	Month 49	2/24/98	1.3	ns	ns	ns	ns	ns
WCSVEW-6	Month 50	3/25/98	1.8	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 17	4/10/98	1.0	041007	0.2	0.2	12.2	13
WCSVEW-6	Month 52	5/22/98	1.8	ns	ns	ns	ns	ns
WCSVEW-6	Month 53	6/15/98	0.8	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 18	7/31/98	1.3	073112	<0.1	<0.2	18.4	19
WCSVEW-6	Month 55	8/25/98	1.1	ns	ns	ns	ns	ns
WCSVEW-6	Month 56	9/21/98	4.3	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 19	10/29/98	2.4	102912	<0.1	<0.2	16.7	17
WCSVEW-6	Month 58	11/23/98	0.6	ns	ns	ns	ns	ns
WCSVEW-6	Month 59	12/23/98	0.8	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 20	1/22/99	2.0	012211	0.3	0.9	28.2	30
WCSVEW-6	Month 61	2/25/99	ns	ns	ns	ns	ns	ns
WCSVEW-6	Month 62	3/23/99	0.9	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 21	4/23/99	1.9	042311	<0.1	0.3	20.9	22
WCSVEW-6	Month 64	5/21/99	0.6	ns	ns	ns	ns	ns
WCSVEW-6	Month 65	6/18/99	1.0	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 22	7/29/99	2.8	072915	0.8	1.4	56.4	59
WCSVEW-6	Month 67	8/27/99	4.6	ns	ns	ns	ns	ns
WCSVEW-6	Month 68	9/13/99	1.6	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 23	10/7/99	3.4	100712	0.3	1.0	42.6	44
WCSVEW-6	Month 70	11/17/99	4.1	ns	ns	ns	ns	ns
WCSVEW-6	Month 71	12/17/99	1.4	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 24	1/19/00	ns	ns	frozen pipelines - no sample collected			
WCSVEW-6	Month 73	2/14/00	1.6	ns	ns	ns	ns	ns
WCSVEW-6	Month 74	3/10/00	0.6	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 25	4/19/00	1.4	041913	<0.1	<0.2	3.5	4
WCSVEW-6	Month 76	5/24/00	1.7	ns	ns	ns	ns	ns
WCSVEW-6	Month 77	6/19/00	2.2	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 26	7/27/00	1.1	072712	0.3	0.3	6.5	8
WCSVEW-6	Month 79	8/16/00	0.7	ns	ns	ns	ns	ns
WCSVEW-6	Month 80	9/25/00	0.5	ns	ns	ns	ns	ns
WCSVEW-6	Quarter 27	10/25/00	0.8	102512	<0.1	<0.2	8.5	9
WCSVEW-6	Month 82	11/22/00	*ns	*ns=no sample collected,excessive water in manifold piping				
WCSVEW-6	Month 83	12/28/00	0.7	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>
WCSVIEW-4	StartUp	1/5/94	72.0	010510	<4.5	<95.0	717.0	717
WCSVIEW-4	StartUp	1/6/94	53.0	010607	11.2	11.5	538.0	561
WCSVIEW-4	StartUp	1/7/94	38.0	010707	8.1	7.1	355.0	370
WCSVIEW-4	StartUp	1/8/94	33.0	010805	5.8	3.9	187.0	197
WCSVIEW-4	Month 2	3/9/94	6.0	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 1	4/15/94	13.0	041522	0.4	0.8	82.2	83
WCSVIEW-4	Month 4	5/12/94	5.7	ns	ns	ns	ns	ns
WCSVIEW-4	Month 5	6/9/94	9.4	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 2	8/15/94	7.0	081505	<4.5	<9.5	138.0	138
WCSVIEW-4	Month 7	8/30/94	7.2	ns	ns	ns	ns	ns
WCSVIEW-4	Month 8	9/30/94	*14.0	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 3	11/4/94	5.3	110403	<0.9	<1.0	17.9	18
WCSVIEW-4	Month 10	11/29/94	4.2	ns	ns	ns	ns	ns
WCSVIEW-4	Month 10	11/29/94	4.2	ns	ns	ns	ns	ns
WCSVIEW-4	Month 11	12/13/94	4.0	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 4	1/13/95	7.8	011323	<1.0	<1.0	119.0	119
WCSVIEW-4	Month 13	2/8/95	3.4	ns	ns	ns	ns	ns
WCSVIEW-4	Month 14	3/15/95	3.0	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 5	4/11/95	5.5	041121	<0.1	<0.2	1.9	2
WCSVIEW-4	Month 16	5/19/95	4.7	ns	ns	ns	ns	ns
WCSVIEW-4	Month 17	6/9/95	0.8	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 6	7/21/95	12.0	072116	<0.2	1.0	189.0	190
WCSVIEW-4	Month 19	8/21/95	3.0	ns	ns	ns	ns	ns
WCSVIEW-4	Month 20	9/21/95	2.6	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 7	10/20/95	12.0	102016	<0.8	<0.8	138.0	138
WCSVIEW-4	Quarter 7	10/20/95	12.0	102016	<0.4	<0.4	138.0	138
WCSVIEW-4	Month 22	11/21/95	41.0	ns	ns	ns	ns	ns
WCSVIEW-4	Month 23	1/11/96	1.9	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 8	1/24/96	5.0	012410	<0.1	1.1	63.0	64
WCSVIEW-4	Month 25	2/19/96	3.0	ns	ns	ns	ns	ns
WCSVIEW-4	Month 26	3/27/96	1.9	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 9	4/23/96	4.6	042313	<0.1	0.6	47.6	50
WCSVIEW-4	Month 28	5/22/96	3.2	ns	ns	ns	ns	ns
WCSVIEW-4	Month 29	6/28/96	3.6	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 10	7/31/96	11.5	073112	<0.2	1.4	163.0	165
WCSVIEW-4	Month 31	8/28/96	3.6	ns	ns	ns	ns	ns
WCSVIEW-4	Month 32	9/19/96	4.1	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 11	10/23/96	7.0	102311	<0.2	<0.4	84.6	85
WCSVIEW-4	Month 34	11/21/96	1.6	ns	ns	ns	ns	ns
WCSVIEW-4	Month 35	12/27/96	1.4	ns	ns	ns	ns	ns
WCSVIEW-4	Quarter 12	1/23/97	1.2	012311	<0.1	<0.2	7.0	7
WCSVIEW-4	Month 37	3/11/97	0.6	ns	ns	ns	ns	ns

**SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WCSVEW-4	Month 38	3/21/97	0.5	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 13	4/24/97	**0.4	042405	<0.1	<0.2	3.3	4
WCSVEW-4	Month 40	5/28/97	0.8	ns	ns	ns	ns	ns
WCSVEW-4	Month 41	6/26/97	1.1	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 14	7/25/97	3.1	072513	<0.2	<0.4	43.3	44
WCSVEW-4	Month 43	9/9/97	0.8	ns	ns	ns	ns	ns
WCSVEW-4	Month 44	9/23/97	2.9	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 15	10/15/97	1.8	101513	<0.2	<0.4	28.2	29
WCSVEW-4	Month 46	11/19/97	1.3	ns	ns	ns	ns	ns
WCSVEW-4	Month 47	12/23/97	1.9	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 16	1/23/98	0.5	012312	<0.1	<0.2	3.6	4
WCSVEW-4	Month 49	2/24/98	0.4	ns	ns	ns	ns	ns
WCSVEW-4	Month 50	3/25/98	1.3	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 17	4/10/98	0.9	041006	0.1	<0.2	9.6	10
WCSVEW-4	Month 52	5/22/98	0.8	ns	ns	ns	ns	ns
WCSVEW-4	Month 53	6/15/98	1.0	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 18	7/31/98	3.6	073111	<0.3	<0.6	77.5	78
WCSVEW-4	Month 55	8/25/98	1.8	ns	ns	ns	ns	ns
WCSVEW-4	Month 56	9/21/98	9.7	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 19	10/29/98	2.9	102911	<0.1	<0.2	33.1	34
WCSVEW-4	Month 58	11/23/98	0.8	ns	ns	ns	ns	ns
WCSVEW-4	Month 59	12/23/98	0.9	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 20	1/22/99	1.0	012210	<0.1	<0.2	9.8	10
WCSVEW-4	Month 61	2/25/99	0.2	ns	ns	ns	ns	ns
WCSVEW-4	Month 62	3/23/99	1.3	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 21	4/23/99	1.0	042310	<0.1	<0.2	12.4	13
WCSVEW-4	Month 64	5/21/99	1.2	ns	ns	ns	ns	ns
WCSVEW-4	Month 65	6/18/99	2.0	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 22	7/29/99	1.6	072914	<0.1	<0.2	28.5	29
WCSVEW-4	Month 67	8/27/99	1.0	ns	ns	ns	ns	ns
WCSVEW-4	Month 68	9/13/99	1.4	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 23	10/7/99	1.2	100711	<0.1	<0.2	19.8	20
WCSVEW-4	Month 70	11/17/99	1.4	ns	ns	ns	ns	ns
WCSVEW-4	Month 71	12/17/99	0.8	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 24	1/19/00	0.4	011913	<0.1	<0.2	3.7	4
WCSVEW-4	Month 73	2/14/00	0.5	ns	ns	ns	ns	ns
WCSVEW-4	Month 74	3/10/00	0.2	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 25	4/19/00	0.3	041912	<0.1	<0.2	5.3	6
WCSVEW-4	Month 76	5/24/00	0.5	ns	ns	ns	ns	ns
WCSVEW-4	Month 77	6/19/00	0.6	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 26	7/27/00	1.5	072711	<0.1	<0.2	20.3	21
WCSVEW-4	Month 79	8/16/00	1.4	ns	ns	ns	ns	ns

TABLE C-1

SCREENING RESULTS - SVE SYSTEM @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)
WCSVEW-4	Month 80	9/25/00	0.7	ns	ns	ns	ns	ns
WCSVEW-4	Quarter 27	10/25/00	1.6	102511	<0.1	<0.2	25.4	26
WCSVEW-4	Month 82	11/22/00	0.4	ns	ns	ns	ns	ns
WCSVEW-4	Month 83	12/28/00	0.6	ns	ns	ns	ns	ns

Note: *ns = sample port plugged with ice

** = HNU field PID meter malfunctioned on 4/23/97.

PID field readings taken on 4/25/97 after blower turned back on.

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-6-4'	PreStartUp	12/10/93	3.5	121005	<0.9	<1.9	13.1	13	
GPN-6-4'	Week 1	01/13/94	1.3	011306	<0.1	<0.2	6.2	6	
GPN-6-4'	Week 2	01/21/94	1.1	012105	<0.1	<0.2	8.8	9	
GPN-6-4'	Week 3	01/28/94	0.6	012806	<0.1	<0.2	6.4	6	
GPN-6-4'	Month 1	02/10/94	0.6	021011	<0.1	<0.2	2.9	3	
GPN-6-4'	Month 2	03/11/94	0.4	031115	<0.1	<0.2	<0.5	<1	
GPN-6-4'	Quarter 1	04/12/94	0.4	041218	<0.1	<0.2	2.5	3	
GPN-6-4'	Month 4	05/12/94	4.0	ns	ns	ns	ns	ns	
GPN-6-4'	Month 5	6/9/94	1.6	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 2	8/11/94	1.8	081115	<0.4	<0.4	>15.5	>15	
GPN-6-4'	Month 7	8/30/94	1.0	ns	ns	ns	ns	ns	
GPN-6-4'	Month 8	9/30/94	*0.3	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 3	10/19/94	*0.2	101914	<0.9	<1.0	9.7	10	
GPN-6-4'	Month 10	11/23/94	0.6	ns	ns	ns	ns	ns	
GPN-6-4'	Month 11	12/13/94	0.6	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 4	1/13/95	0.5	011303	<0.2	<0.2	2.4	2	
GPN-6-4'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-6-4'	Month 14	3/15/95	1.7	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 5	4/11/95	5.1	041108	<0.1	<0.2	3.0	3	
GPN-6-4'	Month 16	5/19/95	1.7	ns	ns	ns	ns	ns	
GPN-6-4'	Month 17	6/9/95	1.4	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 6	7/21/95	0.8	072103	<0.1	<0.2	12.6	13	
GPN-6-4'	Month 19	8/21/95	0.8	ns	ns	ns	ns	ns	
GPN-6-4'	Month 20	9/21/95	0.6	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 7	10/19/95	0.9	101921	<0.4	<0.4	5.8	6	
GPN-6-4'	Month 22	11/21/95	11.4	ns	ns	ns	ns	ns	
GPN-6-4'	Month 23	1/11/96	0.4	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 8	1/23/96	0.6	012311	<0.1	<0.2	2.0	2	
GPN-6-4'	Month 25	2/19/96	0.5	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 9	4/23/96	0.2	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 10	7/31/96	0.8	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 11	10/23/96	0.7	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 12	1/23/97	0.5	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 13	4/22/97	0.5	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 14	7/23/97	1.0	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 15	10/13/97	0.9	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 16	1/22/98	0.2	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 17	4/8/98	0.4	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 18	7/30/98	1.0	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 19	10/28/98	0.6	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 20	1/21/99	0.1	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 21	4/22/99	0.3	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 22	7/27/99	0.9	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 23	10/5/99	0.6	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 24	1/17/00	0.2	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 25	4/17/00	0.2	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-6-4'	Quarter 26	7/26/00	0.5	ns	ns	ns	ns	ns	
GPN-6-4'	Quarter 27	10/23/00	0.4	ns	ns	ns	ns	ns	
GPN-6-8'	PreStartUp	12/10/93	4.8	121006	<0.9	<1.9	29.1	29	
GPN-6-8'	Week 1	1/13/94	6.1	011307	<0.9	<0.2	14.3	14	S
GPN-6-8'	Week 2	1/21/94	4.2	012106	<0.1	<0.2	18.3	18	S
GPN-6-8'	Week 3	1/27/94	4.6	012707/08	<0.1	<0.2	17.2	17	S
GPN-6-8'	Month 1	2/10/94	2.7	021012	<0.1	<0.2	15.5	16	S
GPN-6-8'	Month 2	3/11/94	3.0	031116	<0.1	<0.2	2.7	3	S
GPN-6-8'	Quarter 1	4/12/94	3.2	041219	<0.1	<0.2	2.9	3	S
GPN-6-8'	Month 4	5/12/94	9.2	ns	ns	ns	ns	ns	
GPN-6-8'	Month 5	6/9/94	2.3	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 2	8/11/94	2.7	081117	<0.4	<0.4	21.8	22	S
GPN-6-8'	Month 7	8/30/94	1.8	ns	ns	ns	ns	ns	
GPN-6-8'	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 3	10/19/94	*0.2	101915	<0.9	<1.0	16.8	17	S
GPN-6-8'	Month 10	11/23/94	1.6	ns	ns	ns	ns	ns	
GPN-6-8'	Month 11	12/13/94	1.0	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 4	1/13/95	1.0	011304	<0.2	<0.2	8.3	8	S
GPN-6-8'	Month 13	2/8/95	1.0	ns	ns	ns	ns	ns	
GPN-6-8'	Month 14	3/15/95	1.6	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 5	4/11/95	4.2	041109	<0.1	<0.2	3.7	4	S
GPN-6-8'	Month 16	5/19/95	2.1	ns	ns	ns	ns	ns	
GPN-6-8'	Month 17	6/9/95	1.2	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 6	7/21/95	1.5	072104	<0.1	<0.2	12.4	13	
GPN-6-8'	Month 19	8/21/95	1.0	ns	ns	ns	ns	ns	
GPN-6-8'	Month 20	9/21/95	1.0	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 7	10/20/95	1.3	102004	<0.4	<0.4	11.2	12	
GPN-6-8'	Month 22	11/21/95	5.8	ns	ns	ns	ns	ns	
GPN-6-8'	Month 23	1/11/96	0.6	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 8	1/23/96	0.9	012312	<0.1	<0.2	4.9	5	
GPN-6-8'	Month 25	2/19/96	1.2	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 9	4/23/96	0.2	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 10	7/31/96	0.9	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 11	10/23/96	0.8	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 12	1/23/97	0.9	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 13	4/22/97	0.6	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 14	7/23/97	0.8	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 15	10/13/97	1.1	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 16	1/22/98	0.8	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 17	4/8/98	0.6	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 18	7/30/98	1.5	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 19	10/28/98	1.6	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 20	1/21/99	0.1	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 21	4/22/99	0.4	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 22	7/27/99	1.4	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-6-8'	Quarter 23	10/5/99	1.2	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 24	1/17/00	0.6	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 25	4/17/00	0.4	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 26	7/26/00	0.8	ns	ns	ns	ns	ns	
GPN-6-8'	Quarter 27	10/23/00	0.8	ns	ns	ns	ns	ns	
GPN-7-4'	PreStartUp	12/9/93	6.0	120907	<0.9	<1.9	19.1	19	
GPN-7-4'	Week 1	1/13/94	4.8	011311	<0.1	<0.2	<2.8	<3	
GPN-7-4'	Week 2	1/20/94	3.1	012019	<0.1	<0.2	<0.5	<1	S
GPN-7-4'	Week 3	1/27/94	1.8	012710	<0.1	<0.2	<0.5	<1	S
GPN-7-4'	Month 1	2/9/94	3.0	020913	<0.1	<0.2	<0.5	<1	S
GPN-7-4'	Month 2	3/10/94	4.8	031012	<0.1	<0.2	<0.5	<1	S
GPN-7-4'	Quarter 1	4/13/94	1.9	041308	<0.1	<0.2	2.4	2	S
GPN-7-4'	Month 4	5/12/94	9.6	ns	ns	ns	ns	ns	
GPN-7-4'	Month 5	6/9/94	1.3	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 2	8/11/94	1.0	081113	<0.4	<0.4	5.1	5	S
GPN-7-4'	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GPN-7-4'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 3	10/19/94	*0.2	101912	<0.9	<1.0	1.9	2	S
GPN-7-4'	Month 10	11/23/94	0.5	ns	ns	ns	ns	ns	
GPN-7-4'	Month 11	12/13/94	0.3	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 4	1/12/95	0.3	011211	<1.5	<0.2	0.4	<1	S
GPN-7-4'	Month 13	2/8/95	0.3	ns	ns	ns	ns	ns	
GPN-7-4'	Month 14	3/15/95	3.4	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 5	4/10/95	0.4	041006	<0.1	<0.2	1.4	2	S
GPN-7-4'	Month 16	5/19/95	1.4	ns	ns	ns	ns	ns	
GPN-7-4'	Month 17	6/9/95	0.5	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 6	7/20/95	0.2	072003	<0.1	<0.2	<0.5	1	
GPN-7-4'	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GPN-7-4'	Month 20	9/21/95	0.3	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 7	10/18/95	0.2	101818	<0.4	<0.4	<0.5	2	6
GPN-7-4'	Month 22	11/21/95	0.6	ns	ns	ns	ns	ns	
GPN-7-4'	Month 23	1/11/96	0.8	ns	ns	ns	ns	ns	
GPN-7-4'	Quarter 8	1/22/96	0.0	012211	<0.1	<0.2	<0.5	<1	
GPN-7-4'	Month 25	2/19/96	0.5	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 26	3/27/96	0.8	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 9	4/22/96	0.2	042208	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 28	5/22/96	ns	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 29	6/28/96	ns	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 10	7/30/96	0.2	073008	<0.1	<0.2	0.8	1	high vac
GPN-7-4'	Month 31	8/28/96	1.6	ns	ns	ns	ns	ns	
GPN-7-4'	Month 32	9/19/96	4.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 11	10/22/96	0.0	102208	<0.1	<0.2	1.0	1	high vac
GPN-7-4'	Month 34	11/21/96	0.6	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 35	12/27/96	0.5	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 12	1/22/97	0.1	012208	<0.1	<0.2	0.8	1	high vac

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-7-4'	Month 37	3/11/97	1.7	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 38	3/21/97	0.2	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 13	4/22/97	0.1	042209	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 40	5/28/97	2.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 41	6/26/97	1.2	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 14	7/24/97	0.3	072408	<0.1	<0.2	0.8	1	high vac
GPN-7-4'	Month 43	9/9/97	1.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 44	9/23/97	0.2	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 15	10/14/97	0.1	101408	<0.1	<0.2	0.8	1	high vac
GPN-7-4'	Month 46	11/19/97	1.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 47	12/23/97	0.9	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 16	1/22/98	0.4	012208	<0.1	<0.2	0.5	1	high vac
GPN-7-4'	Month 49	2/24/98	14.8	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 50	3/25/98	0.8	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 17	4/9/98	0.1	040908	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 52	5/22/98	0.2	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 53	6/15/98	0.8	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 18	7/30/98	0.2	073008	<0.1	<0.2	0.5	1	high vac
GPN-7-4'	Month 55	8/25/98	0.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 19	10/28/98	0.1	102808	<0.1	<0.2	<0.5	2	high vac
GPN-7-4'	Month 58	11/23/98	0.4	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 59	12/23/98	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 20	1/21/99	0.0	012108	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 62	3/23/99	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 21	4/22/99	0.4	042208	<0.1	<0.2	2.8	3	high vac
GPN-7-4'	Month 64	5/21/99	0.2	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 65	6/18/99	0.5	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 22	7/28/99	0.2	072808	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 23	10/6/99	0.2	100609	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 24	1/18/00	0.2	011809	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 25	4/18/00	0.3	041808	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 76	5/24/00	0.3	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 77	6/19/00	0.2	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 26	7/26/00	0.1	072609	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 79	8/16/00	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Month 80	9/25/00	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-4'	Quarter 27	10/24/00	0.1	102409	<0.1	<0.2	<0.5	<1	high vac
GPN-7-4'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	high vac

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-7-4'	Month 83	12/28/00	0.1	ns	ns	ns	ns	ns	high vac
GPN-7-8'	PreStartUp	12/9/93	6.8	120908	<0.9	<1.9	23.3	23	
GPN-7-8'	Week 1	1/13/94	0.6	011312	<0.1	<0.2	2.6	3	
GPN-7-8'	Week 2	1/20/94	0.5	012020	<0.1	<0.2	2.6	3	
GPN-7-8'	Week 3	1/27/94	0.3	012711	<0.1	<0.2	0.6	1	
GPN-7-8'	Month 1	2/9/94	0.6	020914	<0.1	<0.2	1.3	1	
GPN-7-8'	Month 2	3/10/94	0.9	031013	<0.1	<0.2	3.9	4	
GPN-7-8'	Quarter 1	4/13/94	0.6	041309	<0.1	<0.2	3.0	3	
GPN-7-8'	Month 4	5/12/94	2.8	ns	ns	ns	ns	ns	
GPN-7-8'	Month 5	6/9/94	0.9	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 2	8/11/94	1.1	081114	<0.4	<0.4	6.7	7	
GPN-7-8'	Month 7	8/30/94	0.5	ns	ns	ns	ns	ns	
GPN-7-8'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 3	10/19/94	*0.2	101913	<0.9	<1.0	3.2	3	
GPN-7-8'	Month 10	11/23/94	0.5	ns	ns	ns	ns	ns	
GPN-7-8'	Month 11	12/13/94	0.3	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 4	1/12/95	0.4	011212	<0.2	<0.2	1.0	1	
GPN-7-8'	Month 13	2/8/95	0.3	ns	ns	ns	ns	ns	
GPN-7-8'	Month 14	3/15/95	2.4	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 5	4/10/95	0.4	041007	<0.1	<0.2	1.7	2	
GPN-7-8'	Month 16	5/19/95	1.4	ns	ns	ns	ns	ns	
GPN-7-8'	Month 17	6/9/95	0.5	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 6	7/20/95	0.5	072004	<0.1	<0.2	3.4	4	
GPN-7-8'	Month 19	8/21/95	0.4	ns	ns	ns	ns	ns	
GPN-7-8'	Month 20	9/21/95	0.3	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 7	10/18/95	0.3	101819	<0.4	<0.4	3.0	7	7
GPN-7-8'	Month 22	11/21/95	1.8	ns	ns	ns	ns	ns	
GPN-7-8'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 8	1/22/96	0.0	012212	<0.1	<0.2	0.7	1	
GPN-7-8'	Month 25	2/19/96	0.4	ns	ns	ns	ns	ns	
GPN-7-8'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 9	4/22/96	0.1	042209	<0.1	<0.2	0.5	1	
GPN-7-8'	Month 28	5/22/96	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 29	6/28/96	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 10	7/30/96	0.6	073009	<0.1	<0.2	1.9	2	
GPN-7-8'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-7-8'	Month 32	9/19/96	0.2	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 11	10/22/96	0.2	102209	<0.1	<0.2	1.7	2	
GPN-7-8'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 12	1/22/97	0.0	012209	<0.1	<0.2	0.9	3	
GPN-7-8'	Month 37	3/11/97	0.6	ns	ns	ns	ns	ns	
GPN-7-8'	Month 38	3/21/97	0.2	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 13	4/22/97	0.3	042210	<0.1	<0.2	0.6	1	
GPN-7-8'	Month 40	5/28/97	0.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-7-8'	Month 41	6/26/97	0.2	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 14	7/24/97	0.3	072409	<0.1	<0.2	2.6	3	
GPN-7-8'	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Month 44	9/23/97	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 15	10/14/97	0.2	101409	<0.1	<0.2	1.7	2	
GPN-7-8'	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 16	1/22/98	0.0	012209	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 49	2/24/98	0.9	ns	ns	ns	ns	ns	
GPN-7-8'	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 17	4/9/98	0.0	040909	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 18	7/30/98	0.3	073009	<0.1	<0.2	2.2	3	
GPN-7-8'	Month 55	8/25/98	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 56	9/21/98	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 19	10/28/98	0.2	102809	<0.1	<0.2	0.9	1	
GPN-7-8'	Month 58	11/23/98	0.2	ns	ns	ns	ns	ns	
GPN-7-8'	Month 59	12/23/98	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 20	1/21/99	0.0	012109	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Month 62	3/23/99	0.3	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 21	4/22/99	0.1	042209	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 22	7/28/99	0.1	072809	<0.1	<0.2	1.3	2	
GPN-7-8'	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 68	9/13/99	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 23	10/6/99	0.1	100610	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 24	1/18/00	0.2	011810	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 25	4/18/00	0.2	041809	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 76	5/24/00	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 77	6/19/00	0.1	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 26	7/26/00	0.0	072610	<0.1	<0.2	1.3	2	
GPN-7-8'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Quarter 27	10/24/00	0.1	102410	<0.1	<0.2	<0.5	<1	
GPN-7-8'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-7-8'	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	
GPN-8-4'	PreStartUp	12/29/93	12.0	122907	<0.1	<0.2	73.7	74	
GPN-8-4'	Week 1	1/13/94	24.0	011318	<0.9	<1.9	27.5	28	S

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GPN-8-4'	Week 2	1/21/94	11.8	012112	<0.1	<0.2	26.8	27	S
GPN-8-4'	Week 3	1/28/94	0.6	012809	<0.1	<0.2	<0.5	<1	S
GPN-8-4'	Month 1	2/9/94	0.5	020921	<0.1	<0.2	<0.5	<1	S
GPN-8-4'	Month 2	3/11/94	1.1	031103	<0.1	<0.2	0.5	1	S
GPN-8-4'	Quarter 1	4/13/94	2.4	041303	<0.1	<0.2	3.9	4	S
GPN-8-4'	Month 4	5/12/94	9.8	ns	ns	ns	ns	ns	
GPN-8-4'	Month 5	6/8/94	4.8	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 2	8/11/94	3.4	081118	<0.4	<0.4	21.2	21	S
GPN-8-4'	Month 7	8/30/94	2.4	ns	ns	ns	ns	ns	
GPN-8-4'	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 3	10/21/94	*1.6	102113	<0.9	<1.0	4.8	5	S
GPN-8-4'	Month 10	11/23/94	0.4	ns	ns	ns	ns	ns	
GPN-8-4'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 4	1/12/95	0.4	011215	<0.2	<0.2	0.7	1	S
GPN-8-4'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-8-4'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 5	4/10/95	0.6	041019	<0.1	<0.2	3.5	4	S
GPN-8-4'	Month 16	5/19/95	1.6	ns	ns	ns	ns	ns	
GPN-8-4'	Month 17	6/9/95	0.8	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 6	7/20/95	1.0	072017	<0.1	<0.2	5.1	7	
GPN-8-4'	Month 19	8/21/95	0.6	ns	ns	ns	ns	ns	
GPN-8-4'	Month 20	9/21/95	0.4	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 7	10/19/95	0.4	101915	<0.4	<0.4	2.6	3	
GPN-8-4'	Month 22	11/21/95	0.2	ns	ns	ns	ns	ns	
GPN-8-4'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 8	1/23/96	0.4	012305	<0.1	<0.2	1.2	2	
GPN-8-4'	Month 25	2/19/96	0.2	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 9	4/22/96	0.1	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 10	7/31/96	0.4	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 11	10/22/96	0.6	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 12	1/22/97	3.4	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 13	4/25/97	**2.8	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 14	7/23/97	9.0	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 15	10/14/97	11.0	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 16	1/22/98	5.2	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 17	4/8/98	3.3	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 18	7/30/98	13.6	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 19	10/28/98	7.9	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 20	1/21/99	5.3	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 21	4/22/99	5.3	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 22	7/27/99	14.7	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 23	10/5/99	8.1	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 24	1/18/00	1.4	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 25	4/17/00	1.4	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 26	7/26/00	3.7	ns	ns	ns	ns	ns	
GPN-8-4'	Quarter 27	10/23/00	2.2	ns	ns	ns	ns	ns	

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**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-8-8'	PreStartUp	12/10/93	36.0	121008	<1.5	<2.5	237.0	237	
GPN-8-8'	Week 1	1/13/94	3.5	011320	<1.5	<0.2	10.8	11	S
GPN-8-8'	Week 2	1/21/94	2.0	012113	<0.1	<0.2	6.2	6	S
GPN-8-8'	Week 3	1/28/94	2.0	012810	<1.5	<0.2	6.0	6	S
GPN-8-8'	Month 1	2/9/94	1.2	020922	<0.1	<0.2	3.8	4	S
GPN-8-8'	Month 2	3/11/94	2.6	031104	<0.1	<0.2	<2.8	<3	S
GPN-8-8'	Quarter 1	4/13/94	1.7	041305	<0.1	<0.2	2.4	2	S
GPN-8-8'	Month 4	5/12/94	4.5	ns	ns	ns	ns	ns	
GPN-8-8'	Month 5	6/8/94	1.4	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 2	8/11/94	1.6	081119	<0.4	<0.4	10.7	11	S
GPN-8-8'	Month 7	8/30/94	0.5	ns	ns	ns	ns	ns	
GPN-8-8'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 3	10/21/94	*1.2	102114	<0.9	<1.0	3.2	3	S
GPN-8-8'	Month 10	11/23/94	0.4	ns	ns	ns	ns	ns	
GPN-8-8'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 4	1/12/95	0.3	011216	<0.2	<0.2	0.7	1	S
GPN-8-8'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Month 14	3/15/95	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 5	4/10/95	0.4	041020	<0.1	<0.2	3.0	3	S
GPN-8-8'	Month 16	5/19/95	0.9	ns	ns	ns	ns	ns	
GPN-8-8'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 6	7/20/95	0.5	072018	<0.1	<0.2	3.2	4	
GPN-8-8'	Month 19	8/21/95	0.4	ns	ns	ns	ns	ns	
GPN-8-8'	Month 20	9/21/95	0.4	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 7	10/19/95	0.4	101916	<0.4	<0.4	2.4	3	
GPN-8-8'	Month 22	11/21/95	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 8	1/23/96	0.4	012307	<0.1	<0.2	0.9	2	
GPN-8-8'	Month 25	2/19/96	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 9	4/22/96	0.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 10	7/31/96	0.5	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 11	10/22/96	0.5	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 12	1/22/97	3.3	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 13	4/25/97	**2.1	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 14	7/23/97	6.0	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 15	10/14/97	8.0	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 16	1/22/98	3.3	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 17	4/8/98	3.0	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 18	7/30/98	7.5	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 19	10/28/98	12.8	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 20	1/21/99	4.1	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 21	4/22/99	5.1	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 22	7/27/99	8.0	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 23	10/5/99	7.1	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 24	1/18/00	1.2	ns	ns	ns	ns	ns	

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**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-8-8'	Quarter 25	4/17/00	1.4	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 26	7/26/00	4.2	ns	ns	ns	ns	ns	
GPN-8-8'	Quarter 27	10/23/00	2.4	ns	ns	ns	ns	ns	
GPN-9-4'	PreStartUp	12/29/93	0.2	122905	<0.1	<0.2	<0.5	<1	
GPN-9-4'	Week 1	1/12/94	10.9	011216	<0.1	<0.2	1.3	1	S
GPN-9-4'	Week 2	1/20/94	3.7	012008	<0.1	<0.2	<0.5	<1	S
GPN-9-4'	Week 3	1/26/94	0.4	012616	<0.1	<0.2	<0.5	<1	S
GPN-9-4'	Month 1	2/8/94	0.6	020822	<0.1	<0.2	<0.5	<1	S
GPN-9-4'	Month 2	3/10/94	2.6	031006	<0.1	<0.2	<0.5	<1	S
GPN-9-4'	Quarter 1	4/12/94	2.4	041208	<0.1	<0.2	<0.5	<1	S
GPN-9-4'	Month 4	5/12/94	8.0	ns	ns	ns	ns	ns	
GPN-9-4'	Month 5	6/8/94	2.4	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 2	8/11/94	0.5	081103	<0.4	<0.4	<0.5	<2	S
GPN-9-4'	Month 7	8/30/94	0.4	ns	ns	ns	ns	ns	
GPN-9-4'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 3	10/21/94	*0.0	102106	<0.9	<1.0	<1.0	<3	S
GPN-9-4'	Month 10	11/23/94	0.3	ns	ns	ns	ns	ns	
GPN-9-4'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 4	1/11/95	0.3	011121	<0.2	<0.2	<0.5	<1	S
GPN-9-4'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 5	4/7/95	0.3	040717	<0.1	<0.2	1.3	2	S
GPN-9-4'	Month 16	5/19/95	0.9	ns	ns	ns	ns	ns	
GPN-9-4'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 6	7/19/95	0.2	071913	<0.1	<0.2	<0.5	<1	
GPN-9-4'	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Month 20	9/21/95	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 7	10/18/95	0.2	101811	<0.4	<0.4	<0.5	2	4
GPN-9-4'	Month 22	11/21/95	1.0	ns	ns	ns	ns	ns	
GPN-9-4'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 8	1/22/96	0.0	012207	<0.1	<0.2	<0.5	<1	
GPN-9-4'	Month 25	2/19/96	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 9	4/22/96	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 10	7/31/96	0.6	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 11	10/23/96	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 12	1/22/97	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 13	4/25/97	**0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 15	10/14/97	0.3	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 16	1/22/98	0.1	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 17	4/8/98	0.1	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 18	7/30/98	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 19	10/28/98	0.2	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-9-4'	Quarter 22	7/27/99	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 23	10/5/99	0.1	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 24	1/17/00	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 26	7/26/00	0.1	ns	ns	ns	ns	ns	
GPN-9-4'	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	PreStartUp	12/10/93	ns	ns	ns	ns	ns	ns	
GPN-9-8'	Week 1	1/12/94	4.0	011217	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Week 2	1/20/94	1.3	012009	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Week 3	1/26/94	3.2	012617	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Month 1	2/8/94	1.1	020823	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Month 2	3/10/94	0.8	031008	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Quarter 1	4/12/94	0.7	041209	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Month 4	5/12/94	3.2	ns	ns	ns	ns	ns	
GPN-9-8'	Month 5	6/8/94	0.7	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 2	8/11/94	0.4	081104	<0.4	<0.4	<0.5	<2	S
GPN-9-8'	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 3	10/21/94	*0.0	102107	<0.9	<1.0	1.7	2	S
GPN-9-8'	Month 10	11/23/94	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 4	1/11/95	0.3	011122	<0.2	<0.2	<0.5	<1	S
GPN-9-8'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 5	4/7/95	0.2	040718	<0.1	<0.2	<0.5	<1	S
GPN-9-8'	Month 16	5/19/95	0.7	ns	ns	ns	ns	ns	
GPN-9-8'	Month 17	6/9/95	0.4	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 6	7/19/95	0.2	071914	<0.1	<0.2	<0.5	<1	
GPN-9-8'	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Month 20	9/21/95	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 7	10/18/95	0.2	101812	<0.4	<0.4	<0.5	<2	
GPN-9-8'	Month 22	11/21/95	0.9	ns	ns	ns	ns	ns	
GPN-9-8'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 8	1/22/96	0.0	012208	<0.1	<0.2	<0.5	<1	
GPN-9-8'	Month 25	2/19/96	0.2	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 9	4/22/96	ns	ns	ns	ns	ns	ns	in water
GPN-9-8'	Quarter 10	7/31/96	0.4	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 11	10/23/96	0.6	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 12	1/22/97	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 13	4/25/97	**0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 15	10/14/97	0.1	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 16	1/22/98	0.1	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 17	4/8/98	0.1	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 18	7/30/98	0.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-9-8'	Quarter 19	10/28/98	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 22	7/27/99	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 23	10/5/99	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 24	1/17/00	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GPN-9-8'	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GPN-10-4'	PreStartUp	12/29/93	4.0	122906	<0.9	<1.9	30.6	31	
GPN-10-4'	Week 1	1/13/94	4.9	011313	<0.9	<0.2	<2.8	<4	S
GPN-10-4'	Week 2	1/20/94	1.1	012017	<0.1	<0.2	<0.5	<1	S
GPN-10-4'	Week 3	1/26/94	2.7	012618	<0.1	<0.2	<0.5	<1	S
GPN-10-4'	Month 1	2/9/94	1.3	020910	<0.1	<0.2	<0.5	<1	S
GPN-10-4'	Month 2	3/10/94	1.2	031009	<0.1	<0.2	1.1	1	S
GPN-10-4'	Quarter 1	4/12/94	1.8	041220	<0.1	<0.2	6.4	6	S
GPN-10-4'	Month 4	5/12/94	2.8	ns	ns	ns	ns	ns	
GPN-10-4'	Month 5	6/8/94	0.5	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 2	8/11/94	0.8	081120	<0.9	<1.9	11.4	11	S
GPN-10-4'	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GPN-10-4'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 3	10/20/94	*0.7	102013	<0.9	<1.0	3.1	3	S
GPN-10-4'	Month 10	11/29/94	0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 4	1/12/95	0.3	011213	<0.2	<0.2	0.7	1	S
GPN-10-4'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-10-4'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 5	4/7/95	0.3	040719	<0.1	<0.2	1.9	2	S
GPN-10-4'	Month 16	5/19/95	1.5	ns	ns	ns	ns	ns	
GPN-10-4'	Month 17	6/9/95	0.4	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 6	7/19/95	0.5	071915	<0.1	<0.2	5.6	6	
GPN-10-4'	Month 19	8/21/95	1.5	ns	ns	ns	ns	ns	
GPN-10-4'	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 7	10/18/95	0.2	101813	<0.4	<0.4	2.1	3	
GPN-10-4'	Month 22	11/21/95	ns	ns	ns	ns	ns	ns	
GPN-10-4'	Month 23	1/11/96	ns	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 8	1/24/96	3.8	012403	<0.1	<0.2	0.9	4	
GPN-10-4'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	can't find
GPN-10-4'	Quarter 9	4/22/96	0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 10	7/31/96	0.9	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 11	10/23/96	1.2	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 12	1/22/97	ns	ns	ns	ns	ns	ns	frozen well
GPN-10-4'	Quarter 13	4/25/97	**0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 15	10/14/97	0.4	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-10-4'	Quarter 16	1/22/98	ns	ns	ns	ns	ns	ns	can't find
GPN-10-4'	Quarter 17	4/8/98	0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 18	7/30/98	0.5	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 19	10/28/98	0.4	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 20	1/21/99	ns	ns	ns	ns	ns	ns	can't find
GPN-10-4'	Quarter 21	4/22/99	0.2	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 22	7/27/99	0.4	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 23	10/5/99	0.2	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 24	1/17/00	0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 25	4/17/00	0.1	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GPN-10-4'	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GPN-10-8'	PreStartUp	12/29/93	4.0	122909	<0.9	<1.9	24.2	24	
GPN-10-8'	Week 1	1/13/94	5.6	011314	<0.1	<0.2	2.0	2	S
GPN-10-8'	Week 2	1/20/94	3.5	012018	<0.1	<0.2	<0.5	<1	S
GPN-10-8'	Week 3	1/26/94	7.4	012619	<0.1	<0.2	<0.5	<1	S
GPN-10-8'	Month 1	2/9/94	2.2	020911	<0.1	<0.2	<0.5	<1	S
GPN-10-8'	Month 2	3/10/94	2.9	031010	<0.1	<0.2	<0.5	<1	S
GPN-10-8'	Quarter 1	4/12/94	5.4	041221	<0.1	<0.2	2.3	2	S
GPN-10-8'	Month 4	5/12/94	12.0	ns	ns	ns	ns	ns	
GPN-10-8'	Month 5	6/8/94	4.5	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 2	8/11/94	1.7	081121	<0.4	<0.4	6.7	7	S
GPN-10-8'	Month 7	8/30/94	0.7	ns	ns	ns	ns	ns	
GPN-10-8'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 3	10/20/94	*0.3	102014	<0.9	<1.0	1.7	2	S
GPN-10-8'	Month 10	11/29/94	0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 4	1/12/95	0.2	011214	<0.2	<0.2	<0.5	<1	S
GPN-10-8'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-10-8'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 5	4/7/95	0.3	040720	<0.1	<0.2	1.3	2	S
GPN-10-8'	Month 16	5/19/95	1.1	ns	ns	ns	ns	ns	
GPN-10-8'	Month 17	6/9/95	0.4	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 6	7/19/95	0.3	071916	<0.1	<0.2	1.6	2	
GPN-10-8'	Month 19	8/21/95	0.4	ns	ns	ns	ns	ns	
GPN-10-8'	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 7	10/18/95	0.3	101815	<0.4	<0.4	2.0	4	5
GPN-10-8'	Month 22	11/21/95	ns	ns	ns	ns	ns	ns	
GPN-10-8'	Month 23	1/11/96	ns	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 8	1/24/96	0.6	012404	<0.1	<0.2	0.9	1	
GPN-10-8'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	can't find in water
GPN-10-8'	Quarter 9	4/22/96	ns	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 10	7/31/96	1.2	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 11	10/23/96	1.4	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 12	1/22/97	ns	ns	ns	ns	ns	ns	frozen well

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-10-8'	Quarter 13	4/25/97	**0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 15	10/14/97	0.3	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 16	1/22/98	ns	ns	ns	ns	ns	ns	can't find
GPN-10-8'	Quarter 17	4/8/98	0.0	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 18	7/30/98	0.4	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 19	10/28/98	0.4	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 20	1/21/99	ns	ns	ns	ns	ns	ns	can't find
GPN-10-8'	Quarter 21	4/22/99	0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 22	7/27/99	0.3	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 23	10/5/99	0.3	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 24	1/17/00	0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 25	4/17/00	0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 26	7/26/00	0.1	ns	ns	ns	ns	ns	
GPN-10-8'	Quarter 27	10/23/00	0.1	ns	ns	ns	ns	ns	
GPN-11-4'	PreStartUp	12/29/93	4.0	122910	<0.9	4.1	16.3	20	
GPN-11-4'	Week 1	1/13/94	8.3	011309	<0.1	1.2	<2.8	<4	
GPN-11-4'	Week 2	1/19/94	2.6	011924	<1.5	<1.9	1.4	<5	S
GPN-11-4'	Week 3	1/27/94	1.9	012717	<0.1	0.6	1.9	3	S
GPN-11-4'	Month 1	2/10/11	1.9	021016	<0.1	0.3	1.1	1	S
GPN-11-4'	Month 2	3/11/15	3.0	031105	<0.1	0.6	2.4	3	S
GPN-11-4'	Quarter 1	4/13/94	6.4	041313	<0.1	4.3	18.9	23	S
GPN-11-4'	Month 4	5/12/94	7.0	ns	ns	ns	ns	ns	
GPN-11-4'	Month 5	6/9/94	5.3	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 2	8/12/94	13.5	081203	<0.9	11.7	58.6	70	S
GPN-11-4'	Month 7	8/30/94	3.0	ns	ns	ns	ns	ns	
GPN-11-4'	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 3	10/20/94	*2.2	102017	<0.9	5.4	21.8	27	S
GPN-11-4'	Month 10	11/29/94	1.0	ns	ns	ns	ns	ns	
GPN-11-4'	Month 11	12/13/94	0.8	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 4	1/13/95	1.0	011306	<0.2	1.3	6.1	7	S
GPN-11-4'	Month 13	2/8/95	0.6	ns	ns	ns	ns	ns	
GPN-11-4'	Month 14	3/15/95	0.7	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 5	4/11/95	0.9	041112	<0.1	1.7	6.5	9	S
GPN-11-4'	Month 16	5/19/95	1.6	ns	ns	ns	ns	ns	
GPN-11-4'	Month 17	6/9/95	1.8	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 6	7/21/95	2.0	072107	<0.1	4.8	26.6	32	
GPN-11-4'	Month 19	8/21/95	1.8	ns	ns	ns	ns	ns	
GPN-11-4'	Month 20	9/21/95	1.0	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 7	10/20/95	1.2	102007	<0.4	3.0	10.2	14	
GPN-11-4'	Month 22	11/21/95	0.4	ns	ns	ns	ns	ns	
GPN-11-4'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 8	1/23/96	0.7	012315	<0.1	1.5	2.7	5	
GPN-11-4'	Month 25	2/19/96	0.6	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 9	4/22/96	0.2	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-11-4'	Quarter 10	7/31/96	1.2	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 11	10/23/96	1.0	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 12	1/22/97	0.3	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 13	4/25/97	**0.3	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 14	7/23/97	0.4	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 15	10/15/97	2.0	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 16	1/22/98	0.5	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 17	4/8/98	0.3	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 18	7/30/98	1.2	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 19	10/28/98	0.8	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 20	1/21/99	0.3	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 21	4/22/99	0.5	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 22	7/27/99	0.7	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 23	10/5/99	0.8	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 24	1/17/00	0.4	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 25	4/17/00	0.4	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 26	7/26/00	0.5	ns	ns	ns	ns	ns	
GPN-11-4'	Quarter 27	10/23/00	0.6	ns	ns	ns	ns	ns	
GPN-11-8'	PreStartUp	12/29/93	3.2	122911	<0.9	2.0	21.9	24	
GPN-11-8'	Week 1	1/13/94	11.0	011310	<0.1	13.3	43.6	57	
GPN-11-8'	Week 2	1/19/94	2.4	011925	<0.1	3.6	15.9	20	
GPN-11-8'	Week 3	1/27/94	5.2	012718	<0.1	7.1	37.1	44	
GPN-11-8'	Month 1	2/10/94	2.7	021017	<0.1	4.4	20.7	25	
GPN-11-8'	Month 2	3/11/94	4.4	031106	<0.1	4.8	34.7	40	
GPN-11-8'	Quarter 1	4/13/94	3.6	041314	<0.1	5.0	25.2	30	
GPN-11-8'	Month 4	5/12/94	5.3	ns	ns	ns	ns	ns	
GPN-11-8'	Month 5	6/9/94	6.2	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 2	8/12/94	13.0	081204	<0.4	13.0	52.9	66	
GPN-11-8'	Month 7	8/30/94	5.0	ns	ns	ns	ns	ns	
GPN-11-8'	Month 8	9/30/94	*2.0	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 3	10/20/94	*2.6	102018	<0.9	7.2	26.5	34	
GPN-11-8'	Month 10	11/29/94	5.4	ns	ns	ns	ns	ns	
GPN-11-8'	Month 11	12/13/94	5.4	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 4	1/13/95	1.9	011307	<0.2	3.1	18.1	21	
GPN-11-8'	Month 13	2/8/95	2.8	ns	ns	ns	ns	ns	
GPN-11-8'	Month 14	3/15/95	1.9	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 5	4/11/95	0.7	041113	<0.1	2.7	9.4	13	
GPN-11-8'	Month 16	5/19/95	1.2	ns	ns	ns	ns	ns	
GPN-11-8'	Month 17	6/9/95	2.2	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 6	7/21/95	1.8	072108	<0.1	4.0	16.5	21	
GPN-11-8'	Month 19	8/21/95	1.6	ns	ns	ns	ns	ns	
GPN-11-8'	Month 20	9/21/95	0.6	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 7	10/20/95	1.5	102008	<0.4	3.0	6.8	10	
GPN-11-8'	Month 22	11/21/95	0.5	ns	ns	ns	ns	ns	
GPN-11-8'	Month 23	1/11/96	0.8	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-11-8'	Quarter 8	1/23/96	1.0	012316	<0.1	2.1	3.6	6	
GPN-11-8'	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 9	4/22/96	0.0	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 10	7/31/96	1.6	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 11	10/23/96	1.2	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 12	1/22/97	ns	ns	ns	ns	ns	ns	high vac
GPN-11-8'	Quarter 13	4/25/97	*0.8	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 14	7/23/97	1.4	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 15	10/15/97	3.7	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 16	1/22/98	2.0	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 17	4/8/98	1.2	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 18	7/30/98	2.2	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 19	10/28/98	3.0	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 20	1/21/99	1.1	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 21	4/22/99	1.3	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 22	7/27/99	0.9	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 23	10/5/99	3.6	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 24	1/17/00	1.3	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 25	4/17/00	1.4	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 26	7/26/00	1.6	ns	ns	ns	ns	ns	
GPN-11-8'	Quarter 27	10/23/00	1.6	ns	ns	ns	ns	ns	
GPN-12-4'	PreStartUp	12/29/94	0.8	122912	<0.1	<0.2	3.1	3	
GPN-12-4'	Week 1	1/12/94	13.9	011220	<0.1	<0.2	1.9	2	S
GPN-12-4'	Week 2	1/20/94	1.5	012021	<0.1	<0.2	1.3	1	S
GPN-12-4'	Week 3	1/26/94	1.8	012606	<0.1	<0.2	1.4	1	S
GPN-12-4'	Month 1	2/9/94	1.2	020915	<0.1	<0.2	0.6	1	S
GPN-12-4'	Month 2	3/10/94	2.3	031016	<0.1	<0.2	<0.5	<1	S
GPN-12-4'	Quarter 1	4/12/94	1.6	041213	<0.1	<0.2	0.5	<1	S
GPN-12-4'	Month 4	5/12/94	6.1	ns	ns	ns	ns	ns	
GPN-12-4'	Month 5	6/8/94	1.7	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 2	8/11/94	0.7	081107	<0.4	<0.4	<0.5	<2	S
GPN-12-4'	Month 7	8/30/94	0.5	ns	ns	ns	ns	ns	
GPN-12-4'	Month 8	9/30/94	*0.6	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 3	10/21/94	*0.6	102108	<0.9	<1.0	<1.0	<3	S
GPN-12-4'	Month 10	11/29/94	0.4	ns	ns	ns	ns	ns	
GPN-12-4'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 4	1/12/95	0.2	011203	<0.2	<0.2	<0.5	<1	S
GPN-12-4'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-12-4'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 5	4/10/95	0.3	041008	<0.1	<0.2	<0.5	<1	S
GPN-12-4'	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GPN-12-4'	Month 17	6/9/95	0.4	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 6	7/20/95	0.0	072005	<0.1	<0.2	<0.5	<1	
GPN-12-4'	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GPN-12-4'	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-12-4'	Quarter 7	10/19/95	0.2	101903	<0.4	<0.4	<0.5	<2	
GPN-12-4'	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Month 23	1/11/96	ns	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 8	1/22/96	0.0	012214	<0.1	<0.2	<0.5	<1	
GPN-12-4'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	can't find
GPN-12-4'	Quarter 9	4/22/96	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 10	7/31/96	0.6	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 11	10/23/96	0.4	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 12	1/22/97	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 13	4/25/97	**0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 15	10/15/97	0.0	ns	ns	ns	ns	ns	slight damage
GPN-12-4'	Quarter 16	1/22/98	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 17	4/8/98	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 18	7/30/98	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 19	10/28/98	0.2	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 22	7/27/99	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 23	10/5/99	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 24	1/17/00	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GPN-12-4'	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	PreStartUp	12/29/93	2.8	122913	<0.9	<1.9	13.8	14	
GPN-12-8'	Week 1	1/12/94	35.0	011221	<0.9	<0.2	<2.8	<4	S
GPN-12-8'	Week 2	1/20/94	11.2	012023	<0.1	<0.2	<0.5	<1	S
GPN-12-8'	Week 3	1/27/94	4.9	012707	<0.1	<0.2	<0.5	<1	S
GPN-12-8'	Month 1	2/9/94	3.3	020916	<0.1	<0.2	<0.5	<1	S
GPN-12-8'	Month 2	3/10/94	2.5	031017	<0.1	<0.2	<0.5	<1	S
GPN-12-8'	Quarter 1	4/12/94	4.4	041214	<0.1	<0.2	<0.5	<1	S
GPN-12-8'	Month 4	5/12/94	10.0	ns	ns	ns	ns	ns	
GPN-12-8'	Month 5	6/8/94	5.2	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 2	8/11/94	0.5	081108	<0.4	<0.4	<0.5	<1	S
GPN-12-8'	Month 7	8/30/94	0.8	ns	ns	ns	ns	ns	
GPN-12-8'	Month 8	9/30/94	*0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 3	10/21/94	*0.7	102109	<0.9	<1.0	1.4	1	S
GPN-12-8'	Month 10	11/29/94	0.2	ns	ns	ns	ns	ns	
GPN-12-8'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 4	1/12/95	0.2	011204	<0.2	<0.2	<0.5	<1	S
GPN-12-8'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-12-8'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 5	4/10/95	0.2	041009	<0.1	<0.2	<0.5	<1	S
GPN-12-8'	Month 16	5/19/95	1.0	ns	ns	ns	ns	ns	
GPN-12-8'	Month 17	6/9/95	0.5	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-12-8'	Quarter 6	7/20/95	0.2	072006	<0.1	<0.2	<0.5	<1	
GPN-12-8'	Month 19	8/21/95	0.3	ns	ns	ns	ns	ns	
GPN-12-8'	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 7	10/19/95	0.3	101904	<0.4	<0.4	<0.5	<2	
GPN-12-8'	Month 22	11/21/95	0.2	ns	ns	ns	ns	ns	
GPN-12-8'	Month 23	1/11/96	ns	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 8	1/22/96	0.0	012215	<0.1	<0.2	<0.5	<1	
GPN-12-8'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	can't find
GPN-12-8'	Quarter 9	4/22/96	ns	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 10	7/31/96	0.4	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 11	10/23/96	0.8	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 12	1/22/97	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 13	4/25/97	**0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 15	10/15/97	0.0	ns	ns	ns	ns	ns	slight damage
GPN-12-8'	Quarter 16	1/22/98	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 17	4/8/98	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 18	7/30/98	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 19	10/28/98	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 22	7/27/99	0.1	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 23	10/5/99	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 24	1/17/00	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GPN-12-8'	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	PreStartUp	12/29/93	4.6	122914	1.0	7.3	11.7	20	
GPN-13-4'	Week 1	1/13/94	32.0	011315	<0.9	<1.9	<3.6	<6	S
GPN-13-4'	Week 2	1/21/94	12.4	012103	<0.1	1.0	2.6	4	S
GPN-13-4'	Week 3	1/27/94	7.0	012713	<0.1	0.8	3.3	4	S
GPN-13-4'	Month 1	2/10/11	1.8	021009	<0.1	0.8	2.8	4	S
GPN-13-4'	Month 2	3/10/94	3.8	031023	<0.1	1.2	6.5	8	S
GPN-13-4'	Quarter 1	4/13/94	6.5	041306	0.2	2.9	10.1	13	S
GPN-13-4'	Month 4	5/12/94	11.6	ns	ns	ns	ns	ns	
GPN-13-4'	Month 5	6/9/94	6.6	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 2	8/11/94	4.2	081122	<0.9	4.5	20.1	25	S
GPN-13-4'	Month 7	8/30/94	1.2	ns	ns	ns	ns	ns	
GPN-13-4'	Month 8	9/30/94	ns	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 3	10/20/94	*1.2	102015	<0.9	1.9	6.5	8	S
GPN-13-4'	Month 10	11/29/94	0.3	ns	ns	ns	ns	ns	
GPN-13-4'	Month 11	12/13/94	0.3	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 4	1/12/95	0.5	011225	<0.2	<0.2	1.0	1	S
GPN-13-4'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-13-4'	Month 14	3/15/95	ns	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

Sample	Period	Date	hnu	Run	c12DCE (ug/l)	TCE (ug/l)	Perc (ug/l)	Total VOCs (ug/l)	Foot Notes
GPN-13-4'	Quarter 5	4/10/95	0.5	041015	<0.1	<0.2	2.0	2	S
GPN-13-4'	Month 16	5/19/95	1.2	ns	ns	ns	ns	ns	
GPN-13-4'	Month 17	6/9/95	0.4	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 6	7/20/95	0.7	072013	<0.1	1.2	5.6	7	
GPN-13-4'	Month 19	8/21/95	1.6	ns	ns	ns	ns	ns	
GPN-13-4'	Month 20	9/21/95	0.4	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 7	10/19/95	0.3	101911	<0.4	1.1	2.4	4	1
GPN-13-4'	Month 22	1/21/96	ns	ns	ns	ns	ns	ns	
GPN-13-4'	Month 23	1/11/96	ns	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 8	1/24/96	0.1	012405	<0.1	<0.2	0.9	1	
GPN-13-4'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	can't find
GPN-13-4'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 9	4/23/96	0.2	042303	<0.1	0.6	0.9	2	
GPN-13-4'	Month 28	5/22/96	1.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 29	6/28/96	0.5	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 10	7/31/96	0.4	073103	<0.1	0.7	1.3	2	
GPN-13-4'	Month 31	8/28/96	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 32	9/19/96	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 11	10/23/96	0.4	102303	<0.1	<0.2	0.9	1	
GPN-13-4'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 35	12/27/96	ns	ns	ns	ns	ns	ns	can't find
GPN-13-4'	Quarter 12	1/23/97	0.0	012303	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 37	3/11/97	ns	ns	ns	ns	ns	ns	full of ice
GPN-13-4'	Month 38	3/21/97	ns	ns	ns	ns	ns	ns	full of ice
GPN-13-4'	Quarter 13	4/23/97	**0.0	042307	<0.1	<0.2	0.9	1	
GPN-13-4'	Month 40	5/28/97	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 41	6/26/97	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 14	7/25/97	0.0	072503	<0.1	1.0	1.4	3	
GPN-13-4'	Month 43	9/9/97	0.2	ns	ns	ns	ns	ns	
GPN-13-4'	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 15	10/15/97	0.1	101503	<0.1	<0.2	1.2	2	
GPN-13-4'	Month 46	11/19/97	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 47	12/23/97	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 16	1/23/98	0.0	012303	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 49	2/24/98	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 17	4/9/98	0.4	040919	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 18	7/30/98	0.2	073019	<0.1	<0.2	1.0	1	
GPN-13-4'	Month 55	8/25/98	0.1	ns	ns	ns	ns	ns	
GPN-13-4'	Month 56	9/21/98	0.1	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 19	10/28/98	0.0	102817	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 58	11/23/98	1.4	ns	ns	ns	ns	ns	
GPN-13-4'	Month 59	12/23/98	0.1	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 20	1/21/99	0.2	012117	<0.1	<0.2	<0.5	<1	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-13-4'	Month 61	2/25/99	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 21	4/23/99	0.0	042303	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-13-4'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 22	7/28/99	0.0	072818	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 68	9/13/99	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 23	10/6/99	0.0	100618	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 24	1/18/00	0.5	011818	<0.1	<0.2	0.9	1	
GPN-13-4'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 25	4/18/00	0.0	041817	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 76	5/24/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 26	7/26/00	1.6	072618	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Quarter 27	10/24/00	0.6	102418	<0.1	<0.2	<0.5	<1	
GPN-13-4'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-13-4'	Month 83	12/28/00	ns	ns	ns	ns	ns	ns	snow plow damage
GPN-13-8'	PreStartUp	12/29/93	12.0	122915/16	5.4	18.2	30.2	54	
GPN-13-8'	Week 1	1/13/94	10.2	011316	<0.9	<1.9	5.4	5	S
GPN-13-8'	Week 2	1/21/94	2.4	012104	<0.1	0.4	2.7	3	S
GPN-13-8'	Week 3	1/27/94	3.0	012714	<0.1	0.3	2.0	2	S
GPN-13-8'	Month 1	2/10/11	1.7	021010	<0.1	<0.2	0.7	1	S
GPN-13-8'	Month 2	3/10/94	5.1	031022	<0.1	0.4	4.0	4	S
GPN-13-8'	Quarter 1	4/13/94	3.8	041307	<0.1	1.0	5.9	7	S
GPN-13-8'	Month 4	5/12/94	7.3	ns	ns	ns	ns	ns	
GPN-13-8'	Month 5	6/9/94	4.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 2	8/11/94	2.6	081123	<0.9	1.9	16.4	18	S
GPN-13-8'	Month 7	8/30/94	2.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 8	9/30/94	ns	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 3	10/20/94	*1.2	102016	<0.9	1.2	15.5	17	S
GPN-13-8'	Month 10	11/29/94	0.5	ns	ns	ns	ns	ns	
GPN-13-8'	Month 11	12/13/94	0.6	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 4	1/12/95	0.6	011226	<0.2	<0.2	3.9	4	S
GPN-13-8'	Month 13	2/8/95	0.3	ns	ns	ns	ns	ns	
GPN-13-8'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 5	4/10/95	0.4	041016	<0.1	0.5	3.0	4	S
GPN-13-8'	Month 16	5/19/95	1.4	ns	ns	ns	ns	ns	
GPN-13-8'	Month 17	6/9/95	0.4	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 6	7/20/95	0.8	072014	<0.1	0.5	6.5	7	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
. WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GPN-13-8'	Month 19	8/21/95	0.8	ns	ns	ns	ns	ns	
GPN-13-8'	Month 20	9/21/95	0.4	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 7	10/19/95	0.8	101912	<0.4	1.2	7.8	9	
GPN-13-8'	Month 22	11/21/95	ns	ns	ns	ns	ns	ns	
GPN-13-8'	Month 23	1/11/96	ns	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 8	1/24/96	0.1	012406	<0.1	<0.2	1.6	2	
GPN-13-8'	Month 25	2/19/96	0.0	ns	ns	ns	ns	ns	can't find
GPN-13-8'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 9	4/23/96	0.1	042304	<0.1	<0.2	0.9	1	
GPN-13-8'	Month 28	5/22/96	0.6	ns	ns	ns	ns	ns	
GPN-13-8'	Month 29	6/28/96	0.2	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 10	7/31/96	0.4	073104	<0.1	0.8	3.9	5	
GPN-13-8'	Month 31	8/28/96	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Month 32	9/19/96	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 11	10/23/96	0.5	102304	<0.1	<0.2	2.3	3	
GPN-13-8'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 35	12/27/96	ns	ns	ns	ns	ns	ns	can't find
GPN-13-8'	Quarter 12	1/23/97	0.0	012304	<0.1	<0.2	0.8	1	
GPN-13-8'	Month 37	3/11/97	ns	ns	ns	ns	ns	ns	full of ice
GPN-13-8'	Month 38	3/21/97	ns	ns	ns	ns	ns	ns	full of ice
GPN-13-8'	Quarter 13	4/23/97	**0.0	042308	<0.1	<0.2	1.0	1	
GPN-13-8'	Month 40	5/28/97	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 41	6/26/97	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 14	7/25/97	0.0	072504	<0.1	1.0	3.9	5	
GPN-13-8'	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 15	10/15/97	0.3	101504	<0.1	1.1	2.5	4	
GPN-13-8'	Month 46	11/19/97	0.2	ns	ns	ns	ns	ns	
GPN-13-8'	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 16	1/23/98	0.1	012304	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 49	2/24/98	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 50	3/25/98	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 17	4/9/98	0.2	040920	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 52	5/22/98	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 18	7/31/98	0.4	073103	<0.1	<0.2	3.1	4	
GPN-13-8'	Month 55	8/25/98	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 19	10/28/98	0.2	102818	<0.1	<0.2	1.4	2	
GPN-13-8'	Month 58	11/23/98	1.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 20	1/21/99	0.0	012118	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 61	2/25/99	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 21	4/23/99	0.0	042304	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-13-8'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 22	7/28/99	0.0	072819	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 67	8/27/99	0.2	ns	ns	ns	ns	ns	
GPN-13-8'	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 23	10/6/99	0.0	100619	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 24	1/18/00	0.3	011819	<0.1	<0.2	1.5	2	
GPN-13-8'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 25	4/18/00	0.0	041818	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Month 77	6/19/00	0.1	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 26	7/26/00	0.2	072619	<0.1	<0.2	1.6	2	
GPN-13-8'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Quarter 27	10/24/00	0.2	102419	<0.1	<0.2	<0.5	<1	
GPN-13-8'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-13-8'	Month 83	12/28/00	ns	ns	ns	ns	ns	ns	snow plow damage
GPN-14-4'	PreStartUp	12/29/93	55.0	122917	11.5	20.4	434.0	466	
GPN-14-4'	Week 1	1/14/94	4.3	011408	<0.1	0.2	<3.6	<4	S
GPN-14-4'	Week 2	1/21/94	7.9	012107	<0.1	<0.2	1.5	2	S
GPN-14-4'	Week 3	1/27/94	3.7	012715	<0.1	<0.2	0.8	1	S
GPN-14-4'	Month 1	2/9/94	4.6	020919	<0.1	<0.2	0.7	1	S
GPN-14-4'	Month 2	3/11/94	7.1	031107	<0.1	0.2	3.5	4	S
GPN-14-4'	Quarter 1	4/13/94	14.5	041318	5.7	8.1	60.4	74	S
GPN-14-4'	Month 4	5/12/94	17.4	ns	ns	ns	ns	ns	
GPN-14-4'	Month 5	6/9/94	9.3	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 2	8/12/94	4.4	081213	3.3	6.8	71.9	82	S
GPN-14-4'	Month 7	8/30/94	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Month 8	9/30/94	*0.7	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 3	10/21/94	*3.2	102121	2.6	3.3	17.5	23	S
GPN-14-4'	Month 10	11/23/94	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Month 11	12/13/94	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 4	1/13/95	1.1	011308	<0.2	0.8	4.5	5	S
GPN-14-4'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 5	4/10/95	1.1	041017	<0.1	<0.2	5.6	6	S
GPN-14-4'	Month 16	5/19/95	1.8	ns	ns	ns	ns	ns	
GPN-14-4'	Month 17	6/9/95	1.2	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 6	7/20/95	2.0	072015	2.2	3.5	16.9	24	
GPN-14-4'	Month 19	8/21/95	3.4	ns	ns	ns	ns	ns	
GPN-14-4'	Month 20	9/21/95	2.6	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 7	10/19/95	1.1	101913	2.5	2.1	8.7	15	2
GPN-14-4'	Month 22	11/21/95	10.4	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-14-4'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 8	1/23/96	1.1	012303	2.0	1.5	3.4	7	
GPN-14-4'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	
GPN-14-4'	Month 26	3/27/96	1.0	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 9	4/22/96	0.3	042214	1.6	1.0	2.8	6	
GPN-14-4'	Month 28	5/22/96	0.8	ns	ns	ns	ns	ns	
GPN-14-4'	Month 29	6/28/96	1.4	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 10	7/30/96	0.8	073014	1.6	1.0	6.6	10	
GPN-14-4'	Month 31	8/28/96	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Month 32	9/19/96	0.6	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 11	10/22/96	0.4	102214	1.9	1.0	3.0	6	
GPN-14-4'	Month 34	11/21/96	0.2	ns	ns	ns	ns	ns	
GPN-14-4'	Month 35	12/27/96	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 12	1/22/97	0.7	012214	2.1	1.1	2.7	6	
GPN-14-4'	Month 37	3/11/97	0.3	ns	ns	ns	ns	ns	
GPN-14-4'	Month 38	3/21/97	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 13	4/22/97	1.6	042215	1.5	0.5	16.7	19	
GPN-14-4'	Month 40	5/28/97	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Month 41	6/26/97	0.3	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 14	7/24/97	4.3	072414	6.0	2.3	89.9	99	
GPN-14-4'	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Month 44	9/23/97	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 15	10/14/97	13.3	101414	<2.0	<4.0	232.0	232	
GPN-14-4'	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 16	1/22/98	0.9	012218	<0.1	<0.2	4.8	5	
GPN-14-4'	Month 49	2/24/98	0.7	ns	ns	ns	ns	ns	
GPN-14-4'	Month 50	3/25/98	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 17	4/9/98	3.3	040914	0.2	0.2	67.6	68	
GPN-14-4'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-14-4'	Month 53	6/15/98	1.1	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 18	7/30/98	3.2	073014	<0.3	<0.6	157.0	157	
GPN-14-4'	Month 55	8/25/98	1.0	ns	ns	ns	ns	ns	
GPN-14-4'	Month 56	9/21/98	0.2	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 19	10/28/98	5.1	102904	<0.2	<0.4	109.0	109	
GPN-14-4'	Month 58	11/23/98	0.3	ns	ns	ns	ns	ns	
GPN-14-4'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 20	1/22/99	0.2	012203	<0.1	<0.2	2.3	3	
GPN-14-4'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 21	4/22/99	0.3	042217	<0.1	<0.2	2.6	3	
GPN-14-4'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Month 65	6/18/99	0.3	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 22	7/29/99	0.2	072906	<0.1	<0.2	10.2	11	
GPN-14-4'	Month 67	8/27/99	0.2	ns	ns	ns	ns	ns	
GPN-14-4'	Month 68	9/13/99	0.5	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-14-4'	Quarter 23	10/7/99	0.6	100704	<0.1	<0.2	10.5	11	
GPN-14-4'	Month 70	11/17/99	0.1	ns	ns	ns	ns	ns	
GPN-14-4'	Month 71	12/17/99	0.3	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 24	1/19/00	0.0	011906	<0.1	<0.2	<0.5	<1	
GPN-14-4'	Month 73	2/14/00	2.9	ns	ns	ns	ns	ns	
GPN-14-4'	Month 74	3/10/00	0.8	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 25	4/19/00	1.6	041905	<0.1	<0.2	3.3	4	
GPN-14-4'	Month 76	5/24/00	0.8	ns	ns	ns	ns	ns	
GPN-14-4'	Month 77	6/19/00	0.4	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 26	7/27/00	0.4	072704	<0.1	<0.2	5.2	6	
GPN-14-4'	Month 79	8/16/00	0.2	ns	ns	ns	ns	ns	
GPN-14-4'	Month 80	9/25/00	0.9	ns	ns	ns	ns	ns	
GPN-14-4'	Quarter 27	10/25/00	0.6	102504	<0.1	<0.2	10.8	11	
GPN-14-4'	Month 82	11/22/00	0.5	ns	ns	ns	ns	ns	
GPN-14-4'	Month 83	12/28/00	0.4	ns	ns	ns	ns	ns	
GPN-14-8'	PreStartUp	12/29/93	53.0	122918	17.4	27.2	377.0	422	
GPN-14-8'	Week 1	1/14/94	1.3	011409/10	0.6	<0.2	<0.5	1	
GPN-14-8'	Week 2	1/21/94	2.8	012108	1.0	0.2	3.1	4	S
GPN-14-8'	Week 3	1/27/94	2.0	012716	1.3	0.3	3.8	5	S
GPN-14-8'	Month 1	2/9/94	2.4	020920	0.8	0.3	5.2	6	S
GPN-14-8'	Month 2	3/11/94	1.4	031108	<0.1	<0.2	0.8	1	S
GPN-14-8'	Quarter 1	4/13/94	25.0	041319	6.1	5.6	152.0	164	S
GPN-14-8'	Month 4	5/12/94	2.7	ns	ns	ns	ns	ns	
GPN-14-8'	Month 5	6/9/94	0.5	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 2	8/12/94	11.2	081215	4.3	4.6	>155.	>164.	S
GPN-14-8'	Month 7	8/30/94	0.3	ns	ns	ns	ns	ns	
GPN-14-8'	Month 8	9/30/94	*0.8	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 3	10/21/94	*5.8	102122	2.6	1.8	40.6	45	S
GPN-14-8'	Month 10	11/23/94	0.3	ns	ns	ns	ns	ns	
GPN-14-8'	Month 11	12/13/94	0.3	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 4	1/13/95	4.2	011309	1.9	0.6	23.7	26	S
GPN-14-8'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-14-8'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 5	4/10/95	2.8	041018	4.2	2.5	32.0	39	S
GPN-14-8'	Month 16	5/19/95	0.9	ns	ns	ns	ns	ns	
GPN-14-8'	Month 17	6/9/95	0.5	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 6	7/20/95	1.8	072016	0.8	0.5	17.1	19	
GPN-14-8'	Month 19	8/21/95	2.4	ns	ns	ns	ns	ns	
GPN-14-8'	Month 20	9/21/95	2.8	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 7	10/19/95	1.7	101914	1.8	1.5	14.3	18	
GPN-14-8'	Month 22	11/21/95	7.2	ns	ns	ns	ns	ns	
GPN-14-8'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 8	1/23/96	1.8	012304	1.7	1.2	3.2	7	
GPN-14-8'	Month 25	2/19/96	ns	ns	ns	ns	ns	ns	
GPN-14-8'	Month 26	3/27/96	1.2	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-14-8'	Quarter 9	4/22/96	0.4	042215	<0.1	<0.2	3.5	4	
GPN-14-8'	Month 28	5/22/96	0.8	ns	ns	ns	ns	ns	
GPN-14-8'	Month 29	6/28/96	0.5	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 10	7/30/96	1.0	073015	<0.1	<0.2	10.7	11	
GPN-14-8'	Month 31	8/28/96	0.6	ns	ns	ns	ns	ns	
GPN-14-8'	Month 32	9/19/96	0.2	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 11	10/22/96	0.7	102215	<0.1	<0.2	13.3	14	
GPN-14-8'	Month 34	11/21/96	0.1	ns	ns	ns	ns	ns	
GPN-14-8'	Month 35	12/27/96	0.5	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 12	1/22/97	1.1	012215	1.9	1.3	8.8	12	
GPN-14-8'	Month 37	3/11/97	0.8	ns	ns	ns	ns	ns	
GPN-14-8'	Month 38	3/21/97	1.6	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 13	4/22/97	11.0	042216	4.6	1.3	134.0	140	
GPN-14-8'	Month 40	5/28/97	3.0	ns	ns	ns	ns	ns	
GPN-14-8'	Month 41	6/26/97	24.0	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 14	7/24/97	22.0	072415	<2.0	<4.0	456.0	456	
GPN-14-8'	Month 43	9/9/97	1.1	ns	ns	ns	ns	ns	
GPN-14-8'	Month 44	9/23/97	24.0	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 15	10/14/97	23.0	101415	<2.0	<4.0	851.0	851	
GPN-14-8'	Month 46	11/19/97	0.9	ns	ns	ns	ns	ns	
GPN-14-8'	Month 47	12/23/97	1.0	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 16	1/22/98	9.3	012219	<0.4	<0.8	93.2	94	
GPN-14-8'	Month 49	2/24/98	3.8	ns	ns	ns	ns	ns	
GPN-14-8'	Month 50	3/25/98	0.8	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 17	4/9/98	15.6	040915	<0.5	<1.0	338.0	338	
GPN-14-8'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-14-8'	Month 53	6/15/98	3.0	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 18	7/30/98	34.0	073015	<4.0	<8.0	2,580.0	2,580	
GPN-14-8'	Month 55	8/25/98	41.0	ns	ns	ns	ns	ns	
GPN-14-8'	Month 56	9/21/98	1.2	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 19	10/29/98	22.0	102905	<1.5	<3.0	377.0	377	
GPN-14-8'	Month 58	11/23/98	2.0	ns	ns	ns	ns	ns	
GPN-14-8'	Month 59	12/23/98	0.5	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 20	1/22/99	1.4	012204	<0.1	<0.2	23.3	24	
GPN-14-8'	Month 61	2/25/99	0.2	ns	ns	ns	ns	ns	
GPN-14-8'	Month 62	3/23/99	0.6	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 21	4/22/99	0.2	042218	<0.1	<0.2	2.2	3	
GPN-14-8'	Month 64	5/21/99	0.4	ns	ns	ns	ns	ns	
GPN-14-8'	Month 65	6/18/99	0.9	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 22	7/29/99	0.6	072908	<0.1	<0.2	41.7	42	
GPN-14-8'	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns	
GPN-14-8'	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 23	10/7/99	2.2	100705	<0.1	<0.2	49.4	50	
GPN-14-8'	Month 70	11/17/99	0.2	ns	ns	ns	ns	ns	
GPN-14-8'	Month 71	12/17/99	0.2	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 24	1/19/00	0.4	011907	<0.1	<0.2	4.0	4	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-14-8'	Month 73	2/14/00	6.2	ns	ns	ns	ns	ns	
GPN-14-8'	Month 74	3/10/00	0.7	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 25	4/19/00	5.0	041906	<0.2	<0.4	64.5	65	
GPN-14-8'	Month 76	5/24/00	0.7	ns	ns	ns	ns	ns	
GPN-14-8'	Month 77	6/19/00	0.4	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 26	7/27/00	6.9	072705	<0.4	<0.8	261.0	262	
GPN-14-8'	Month 79	8/16/00	0.3	ns	ns	ns	ns	ns	
GPN-14-8'	Month 80	9/25/00	0.5	ns	ns	ns	ns	ns	
GPN-14-8'	Quarter 27	10/25/00	8.5	102505	<0.4	<0.8	208.0	208	
GPN-14-8'	Month 82	11/22/00	0.3	ns	ns	ns	ns	ns	
GPN-14-8'	Month 83	12/28/00	0.5	ns	ns	ns	ns	ns	
GPN-15-4'	PreStartUp	12/29/93	230.0	122919	89.0	80.3	1,640.0	1,809	
GPN-15-4'	Week 1	1/14/94	1.3	011411	<0.1	<0.2	0.7	1	S
GPN-15-4'	Week 2	1/20/94	1.0	012013	<0.1	<0.2	0.7	1	S
GPN-15-4'	Week 3	1/27/94	1.2	012720	<0.1	<0.2	0.7	1	S
GPN-15-4'	Month 1	2/10/11	0.6	021003	<0.1	<0.2	<0.5	<1	S
GPN-15-4'	Month 2	3/10/94	1.4	031018	<0.1	<0.2	0.5	1	S
GPN-15-4'	Quarter 1	4/13/94	3.6	041321	1.1	0.7	11.9	14	S
GPN-15-4'	Month 4	5/12/94	1.6	ns	ns	ns	ns	ns	
GPN-15-4'	Month 5	6/9/94	0.6	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 2	8/12/94	0.0	081207	<0.9	<1.9	5.2	5	S
GPN-15-4'	Month 7	8/30/94	0.3	ns	ns	ns	ns	ns	
GPN-15-4'	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 3	10/20/94	*1.4	102019	0.9	<1.0	2.4	3	S
GPN-15-4'	Month 10	11/29/94	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 4	1/12/95	0.3	011222	0.2	<0.2	0.6	1	S
GPN-15-4'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 5	4/10/95	0.3	041012	<0.1	<0.2	1.3	2	S
GPN-15-4'	Month 16	5/19/95	1.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 6	7/20/95	0.4	072009	<0.1	<0.2	1.1	1	
GPN-15-4'	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 20	9/21/95	ns	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 7	10/19/95	0.3	101907	<0.4	<0.4	1.7	2	
GPN-15-4'	Month 22	11/21/95	1.8	ns	ns	ns	ns	ns	
GPN-15-4'	Month 23	1/11/96	0.6	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 8	1/22/96	0.0	012218	1.1	<0.2	1.0	2	
GPN-15-4'	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GPN-15-4'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 9	4/22/96	0.0	042210	<0.1	<0.2	0.5	1	
GPN-15-4'	Month 28	5/22/96	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Month 29	6/28/96	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 10	7/30/96	0.9	073010	<0.1	<0.2	0.8	1	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-15-4'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 32	9/19/96	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 11	10/22/96	0.7	102210	<0.1	<0.2	1.3	2	
GPN-15-4'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 35	12/27/96	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 12	1/22/97	0.0	012210	<0.1	<0.2	0.8	1	
GPN-15-4'	Month 37	3/11/97	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 13	4/22/97	0.2	042211	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 40	5/28/97	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 41	6/26/97	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 14	7/24/97	0.1	072410	<0.1	<0.2	0.8	1	
GPN-15-4'	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Month 44	9/23/97	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 15	10/14/97	0.1	101410	<0.1	<0.2	1.0	1	
GPN-15-4'	Month 46	11/19/97	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 47	12/23/97	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 16	1/22/98	0.0	012210	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 49	2/24/98	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 17	4/9/98	0.1	040910	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 18	7/30/98	0.1	073010	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 55	8/25/98	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 19	10/28/98	0.0	102810	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 58	11/23/98	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Month 59	12/23/98	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 20	1/21/99	0.0	012110	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 61	2/25/99	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 21	4/22/99	0.0	042210	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Month 65	6/18/99	0.2	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 22	7/28/99	0.0	072810	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 68	9/13/99	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 23	10/6/99	0.0	100611	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 71	12/17/99	0.1	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 24	1/18/00	0.1	011811	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 25	4/18/00	0.2	041810	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 76	5/24/00	0.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-15-4'	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 26	7/26/00	0.1	072611	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Quarter 27	10/24/00	0.0	102411	<0.1	<0.2	<0.5	<1	
GPN-15-4'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-15-4'	Month 83	12/28/00	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	PreStartUp	12/29/93	350.0	122920	151.0	123.0	3,310.0	3,584	
GPN-15-8'	Week 1	1/14/94	2.5	011412	<0.1	<0.2	0.5	1	S
GPN-15-8'	Week 2	1/20/94	1.5	012014	<0.1	<0.2	1.2	1	S
GPN-15-8'	Week 3	1/26/94	2.6	012621	<0.1	<0.2	0.9	1	S
GPN-15-8'	Month 1	2/10/94	1.6	021004	<0.1	<0.2	0.5	1	S
GPN-15-8'	Month 2	3/10/94	1.2	031019	<0.1	<0.2	<0.5	<1	S
GPN-15-8'	Quarter 1	4/13/94	7.5	041322	6.4	2.9	46.4	56	S
GPN-15-8'	Month 4	5/12/94	2.4	ns	ns	ns	ns	ns	
GPN-15-8'	Month 5	6/9/94	1.6	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 2	8/12/94	1.4	081208	7.1	<1.9	22.0	29	S
GPN-15-8'	Month 7	8/30/94	0.6	ns	ns	ns	ns	ns	
GPN-15-8'	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 3	10/20/94	*2.4	102020	3.2	1.2	8.7	13	S
GPN-15-8'	Month 10	11/29/94	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Month 11	12/13/94	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 4	1/12/95	0.8	011223	1.8	0.2	4.0	6	S
GPN-15-8'	Month 13	2/8/95	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 5	4/10/95	0.8	041013	<0.1	0.7	3.5	5	S
GPN-15-8'	Month 16	5/19/95	1.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 17	6/9/95	0.8	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 6	7/20/95	1.1	072011	2.4	0.4	4.8	8	
GPN-15-8'	Month 19	8/21/95	0.3	ns	ns	ns	ns	ns	
GPN-15-8'	Month 20	9/21/95	ns	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 7	10/19/95	0.7	101909	2.3	1.2	4.3	8	
GPN-15-8'	Month 22	11/21/95	10.0	ns	ns	ns	ns	ns	
GPN-15-8'	Month 23	1/11/96	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 8	1/22/96	0.6	012219	1.6	0.9	3.2	6	
GPN-15-8'	Month 25	2/19/96	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Month 26	3/27/96	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 9	4/22/96	0.1	042211	1.6	0.6	0.7	3	
GPN-15-8'	Month 28	5/22/96	0.0	ns	ns	ns	ns	ns	
GPN-15-8'	Month 29	6/28/96	0.0	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 10	7/30/96	0.4	073011	2.2	<0.2	1.6	4	
GPN-15-8'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-15-8'	Month 32	9/19/96	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 11	10/22/96	0.8	102211	2.8	<0.2	2.6	6	
GPN-15-8'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-15-8'	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 12	1/22/97	0.2	012211	1.9	<0.2	1.5	4	
GPN-15-8'	Month 37	3/11/97	0.0	ns	ns	ns	ns	ns	
GPN-15-8'	Month 38	3/21/97	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 13	4/22/97	0.3	042212	1.6	<0.2	1.1	3	
GPN-15-8'	Month 40	5/28/97	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 41	6/26/97	0.2	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 14	7/24/97	0.4	072411	3.5	<0.2	2.8	7	
GPN-15-8'	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 44	9/23/97	0.2	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 15	10/14/97	0.5	101411	3.9	1.0	2.4	8	
GPN-15-8'	Month 46	11/19/97	0.2	ns	ns	ns	ns	ns	
GPN-15-8'	Month 47	12/23/97	0.2	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 16	1/22/98	1.5	012211	0.6	<0.2	7.5	9	
GPN-15-8'	Month 49	2/24/98	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 50	3/25/98	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 17	4/9/98	0.1	040911	0.4	<0.2	<0.5	1	
GPN-15-8'	Month 52	5/22/98	0.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 18	7/30/98	0.2	073011	0.2	<0.2	4.0	5	
GPN-15-8'	Month 55	8/25/98	1.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 56	9/21/98	3.2	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 19	10/28/98	0.2	102811	0.1	<0.2	1.2	2	
GPN-15-8'	Month 58	11/23/98	0.8	ns	ns	ns	ns	ns	
GPN-15-8'	Month 59	12/23/98	0.6	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 20	1/21/99	5.9	012111	<0.3	<0.6	82.2	83	
GPN-15-8'	Month 61	2/25/99	1.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 62	3/23/99	0.8	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 21	4/22/99	0.1	042211	0.1	<0.2	<0.5	1	
GPN-15-8'	Month 64	5/21/99	0.5	ns	ns	ns	ns	ns	
GPN-15-8'	Month 65	6/18/99	0.6	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 22	7/28/99	0.2	072811	0.3	<0.2	<0.5	1	
GPN-15-8'	Month 67	8/27/99	0.2	ns	ns	ns	ns	ns	
GPN-15-8'	Month 68	9/13/99	1.4	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 23	10/6/99	0.2	100612	0.3	<0.2	1.1	2	
GPN-15-8'	Month 70	11/17/99	1.1	ns	ns	ns	ns	ns	
GPN-15-8'	Month 71	12/17/99	0.4	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 24	1/18/00	0.3	011812	0.1	<0.2	2.0	3	
GPN-15-8'	Month 73	2/14/00	4.4	ns	ns	ns	ns	ns	
GPN-15-8'	Month 74	3/10/00	5.3	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 25	4/18/00	0.0	041811	0.4	<0.2	<0.5	1	
GPN-15-8'	Month 76	5/24/00	1.6	ns	ns	ns	ns	ns	
GPN-15-8'	Month 77	6/19/00	1.1	ns	ns	ns	ns	ns	
GPN-15-8'	Quarter 26	7/26/00	0.5	072612	0.4	<0.2	0.9	1	
GPN-15-8'	Month 79	8/16/00	0.6	ns	ns	ns	ns	ns	
GPN-15-8'	Month 80	9/25/00	0.6	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-15-8'	Quarter 27	10/24/00	0.1	102412	<0.1	<0.2	<0.5	<1	
GPN-15-8'	Month 82	11/22/00	0.6	ns	ns	ns	ns	ns	
GPN-15-8'	Month 83	12/28/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	PreStartUp	12/29/93	350.0	122921	170.0	133.0	3,320.0	3,623	
GPN-15-11'	Week 1	1/14/94	2.0	011413	<0.1	<0.2	0.8	1	S
GPN-15-11'	Week 2	1/20/94	2.6	012015	<0.1	<0.2	0.6	1	S
GPN-15-11'	Week 3	1/26/94	1.3	012622	<0.1	<0.2	0.7	1	S
GPN-15-11'	Month 1	2/10/11	1.4	021005	<0.1	<0.2	<0.5	<1	S
GPN-15-11'	Month 2	3/10/94	1.0	031021	<0.1	<0.2	<0.5	<1	S
GPN-15-11'	Quarter 1	4/13/94	8.5	041323	5.7	4.3	87.0	97	S
GPN-15-11'	Month 4	5/12/94	1.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 5	6/9/94	0.3	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 2	8/12/94	1.0	081209	4.3	1.5	22.1	28	S
GPN-15-11'	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GPN-15-11'	Month 8	9/30/94	*0.3	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 3	10/20/94	*2.0	102021	1.2	1.1	6.2	9	S
GPN-15-11'	Month 10	11/29/94	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 4	1/12/95	2.4	011224	0.4	<0.2	21.3	22	S
GPN-15-11'	Month 13	2/8/95	0.3	ns	ns	ns	ns	ns	
GPN-15-11'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 5	4/10/95	1.2	041014	<0.1	0.7	15.1	16	S
GPN-15-11'	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GPN-15-11'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 6	7/20/95	0.6	072012	0.4	<0.2	2.8	4	
GPN-15-11'	Month 19	8/21/95	0.3	ns	ns	ns	ns	ns	
GPN-15-11'	Month 20	9/21/95	ns	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 7	10/19/95	0.5	101910	1.3	1.1	2.6	5	
GPN-15-11'	Month 22	11/21/95	9.0	ns	ns	ns	ns	ns	
GPN-15-11'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 8	1/22/96	0.6	012220	2.4	0.9	2.3	6	
GPN-15-11'	Month 25	2/19/96	0.5	ns	ns	ns	ns	ns	
GPN-15-11'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 9	4/22/96	0.6	042212	<0.1	<0.2	8.8	9	
GPN-15-11'	Month 28	5/22/96	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Month 29	6/28/96	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 10	7/30/96	1.0	073012	1.6	<0.2	8.6	11	
GPN-15-11'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-15-11'	Month 32	9/19/96	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 11	10/22/96	1.7	102212	2.0	0.9	13.6	17	
GPN-15-11'	Month 34	11/21/96	1.0	ns	ns	ns	ns	ns	
GPN-15-11'	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 12	1/22/97	4.8	012212	<0.1	<0.2	45.7	46	
GPN-15-11'	Month 37	3/11/97	1.9	ns	ns	ns	ns	ns	
GPN-15-11'	Month 38	3/21/97	1.6	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-15-11'	Quarter 13	4/22/97	3.7	042213	1.6	0.5	27.6	30	
GPN-15-11'	Month 40	5/28/97	2.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 41	6/26/97	3.2	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 14	7/24/97	3.0	072412	2.9	1.0	38.2	43	
GPN-15-11'	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 44	9/23/97	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 15	10/14/97	2.2	101413	3.1	1.0	21.6	26	
GPN-15-11'	Month 46	11/19/97	1.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 47	12/23/97	1.0	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 16	1/22/98	8.3	012212	<0.4	<0.8	109.0	109	
GPN-15-11'	Month 49	2/24/98	6.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 50	3/25/98	7.0	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 17	4/9/98	1.0	040912	0.1	<0.2	11.4	12	
GPN-15-11'	Month 52	5/22/98	5.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 53	6/15/98	1.3	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 18	7/30/98	3.6	073012	<0.4	<0.8	95.0	95	
GPN-15-11'	Month 55	8/25/98	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 19	10/28/98	0.9	102812	<0.1	<0.2	19.3	20	
GPN-15-11'	Month 58	11/23/98	0.2	ns	ns	ns	ns	ns	
GPN-15-11'	Month 59	12/23/98	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 20	1/21/99	0.5	012112	0.5	<0.2	4.6	6	
GPN-15-11'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 62	3/23/99	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 21	4/22/99	1.3	042212-13	<0.1	<0.2	14.0	14	
GPN-15-11'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 22	7/28/99	0.5	072812-13	<0.1	<0.2	8.5	9	
GPN-15-11'	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 23	10/6/99	1.8	100613-14	<0.1	<0.2	30.2	31	
GPN-15-11'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 24	1/18/00	2.0	011813-14	<0.1	<0.2	18.4	19	
GPN-15-11'	Month 73	2/14/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 74	3/10/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 25	4/18/00	0.6	041812-13	<0.1	<0.2	7.1	8	
GPN-15-11'	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 77	6/19/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 26	7/26/00	1.6	072613-14	<0.1	<0.2	19.6	20	
GPN-15-11'	Month 79	8/16/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 80	9/25/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Quarter 27	10/24/00	0.6	102413-14	<0.1	<0.2	8.4	9	
GPN-15-11'	Month 82	11/22/00	0.1	ns	ns	ns	ns	ns	
GPN-15-11'	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

Sample	Period	Date	hnu	Run	c12DCE (ug/l)	TCE (ug/l)	Perc (ug/l)	Total VOCs (ug/l)	Foot Notes
GPN-16-4'	PreStartUp	12/30/93	730.0	123003	487.0	2,310.0	14,200.0	16,997	
GPN-16-4'	Week 1	1/14/94	3.5	011416	<0.9	0.4	22.9	23	S
GPN-16-4'	Week 2	1/21/94	3.8	012114	<0.1	0.3	16.9	17	S
GPN-16-4'	Week 3	1/28/94	2.2	012803	<0.1	0.2	12.5	13	S
GPN-16-4'	Month 1	2/10/11	2.0	021006	<0.1	<0.2	7.8	8	S
GPN-16-4'	Month 2	3/11/15	6.8	031109	<0.1	0.9	46.4	47	S
GPN-16-4'	Quarter 1	4/14/94	46.0	041405	22.5	52.8	524.0	599	S
GPN-16-4'	Month 4	5/12/94	7.3	ns	ns	ns	ns	ns	
GPN-16-4'	Month 5	6/9/94	2.4	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 2	8/12/94	42.0	081222	18.4	>50.6	>711.0	>780	S
GPN-16-4'	Month 7	8/30/94	1.0	ns	ns	ns	ns	ns	
GPN-16-4'	Month 8	9/30/94	*1.1	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 3	10/20/94	*6.2	102022	17.5	34.2	220.0	272	S
GPN-16-4'	Month 10	ns	ns	ns	ns	ns	ns	ns	
GPN-16-4'	Month 11	12/13/94	1.8	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 4	1/13/95	14.5	011312	9.0	19.0	104.0	131	S
GPN-16-4'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-16-4'	Month 14	3/15/95	1.3	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 5	4/11/95	12.1	041103	8.4	17.2	133.0	159	S
GPN-16-4'	Month 16	5/19/95	1.9	ns	ns	ns	ns	ns	
GPN-16-4'	Month 17	6/9/95	2.4	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 6	7/20/95	13.0	072019	9.5	22.4	142.0	174	
GPN-16-4'	Month 19	8/21/95	6.0	ns	ns	ns	ns	ns	
GPN-16-4'	Month 20	9/21/95	1.2	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 7	10/19/95	4.8	101917	3.2	8.3	40.5	52	
GPN-16-4'	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 8	1/23/96	8.3	012308	4.1	8.0	43.5	56	
GPN-16-4'	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GPN-16-4'	Month 26	3/27/96	0.8	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 9	4/22/96	1.6	042216	1.9	2.5	15.7	20	
GPN-16-4'	Month 28	5/22/96	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Month 29	6/28/96	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 10	7/30/96	3.6	073016	1.6	5.3	26.2	34	
GPN-16-4'	Month 31	8/28/96	0.6	ns	ns	ns	ns	ns	
GPN-16-4'	Month 32	9/19/96	1.3	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 11	10/22/96	12.3	102216	12.8	28.2	246.0	287	
GPN-16-4'	Month 34	11/21/96	3.5	ns	ns	ns	ns	ns	
GPN-16-4'	Month 35	12/27/96	0.1	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 12	1/22/97	2.3	012216	3.1	3.3	17.6	24	
GPN-16-4'	Month 37	3/11/97	0.1	ns	ns	ns	ns	ns	
GPN-16-4'	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 13	4/23/97	**0.1	042304	4.5	6.0	95.6	107	
GPN-16-4'	Month 40	5/28/97	0.3	ns	ns	ns	ns	ns	
GPN-16-4'	Month 41	6/26/97	0.2	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 14	7/24/97	18.2	072416	61.4	48.0	331.0	441	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-16-4'	Month 43	9/9/97	0.2	ns	ns	ns	ns	ns	
GPN-16-4'	Month 44	9/23/97	0.3	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 15	10/14/97	19.0	101416	60.4	32.0	239.0	332	
GPN-16-4'	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GPN-16-4'	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 16	1/22/98	5.7	012217	2.5	5.2	66.6	75	
GPN-16-4'	Month 49	2/24/98	0.2	ns	ns	ns	ns	ns	
GPN-16-4'	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 17	4/9/98	5.9	040916	2.4	4.4	75.2	82	
GPN-16-4'	Month 52	5/22/98	0.1	ns	ns	ns	ns	ns	
GPN-16-4'	Month 53	6/15/98	0.1	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 18	7/30/98	10.6	073016	<1.5	14.8	222.0	237	
GPN-16-4'	Month 55	8/25/98	0.8	ns	ns	ns	ns	ns	
GPN-16-4'	Month 56	9/21/98	1.0	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 19	10/28/98	8.6	102814	<1.0	8.2	193.0	202	
GPN-16-4'	Month 58	11/23/98	2.7	ns	ns	ns	ns	ns	
GPN-16-4'	Month 59	12/23/98	0.6	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 20	1/21/99	1.9	012114	1.6	3.1	18.2	23	
GPN-16-4'	Month 61	2/25/99	0.3	ns	ns	ns	ns	ns	
GPN-16-4'	Month 62	3/23/99	0.5	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 21	4/22/99	1.4	042214	0.9	1.9	9.1	12	
GPN-16-4'	Month 64	5/21/99	0.2	ns	ns	ns	ns	ns	
GPN-16-4'	Month 65	6/18/99	1.1	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 22	7/28/99	2.9	072814	2.8	6.7	55.8	66	
GPN-16-4'	Month 67	8/27/99	0.6	ns	ns	ns	ns	ns	
GPN-16-4'	Month 68	9/13/99	0.8	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 23	10/6/99	2.5	100615	2.4	6.2	36.1	45	
GPN-16-4'	Month 70	11/17/99	0.3	ns	ns	ns	ns	ns	
GPN-16-4'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 24	1/18/00	2.4	011815	1.6	2.9	16.3	21	
GPN-16-4'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 25	4/18/00	2.2	041814	1.9	3.2	16.4	22	
GPN-16-4'	Month 76	5/24/00	0.7	ns	ns	ns	ns	ns	
GPN-16-4'	Month 77	6/19/00	1.3	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 26	7/26/00	8.5	072615	4.9	11.9	161.0	178	
GPN-16-4'	Month 79	8/16/00	3.6	ns	ns	ns	ns	ns	
GPN-16-4'	Month 80	9/25/00	0.3	ns	ns	ns	ns	ns	
GPN-16-4'	Quarter 27	10/24/00	6.2	102415	2.8	7.8	143.0	154	
GPN-16-4'	Month 82	11/22/00	0.2	ns	ns	ns	ns	ns	
GPN-16-4'	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	PreStartUp	12/30/93	720.0	123004	261.0	1,760.0	17,900.0	19,921	
GPN-16-8'	Week 1	1/14/94	1.2	011417	<0.1	<0.2	2.8	3	S
GPN-16-8'	Week 2	1/21/94	1.3	012115	<0.1	<0.2	3.6	4	S
GPN-16-8'	Week 3	1/28/94	1.3	012804	<0.1	<0.2	9.0	9	S

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-16-8'	Month 1	2/10/11	1.2	021007	<0.1	<0.2	2.2	2	S
GPN-16-8'	Month 2	3/11/15	1.4	031110	<0.1	<0.2	1.8	2	S
GPN-16-8'	Quarter 1	4/14/94	12.5	041406	<0.5	<1.0	190.0	190	S
GPN-16-8'	Month 4	5/12/94	2.9	ns	ns	ns	ns	ns	
GPN-16-8'	Month 5	6/9/94	1.4	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 2	8/12/94	42.0	081223	17.7	56.8	868.0	943	S
GPN-16-8'	Month 7	8/30/94	1.4	ns	ns	ns	ns	ns	
GPN-16-8'	Month 8	9/30/94	*1.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 3	10/20/94	*3.0	102024	<10.	<10.	55.0	55	S
GPN-16-8'	Month 10	ns	ns	ns	ns	ns	ns	ns	
GPN-16-8'	Month 11	12/13/94	1.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 4	1/13/95	2.2	011313	<0.2	<0.2	22.1	22	S
GPN-16-8'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Month 14	3/15/95	0.5	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 5	4/11/95	2.2	041104	<0.1	<0.2	20.4	21	S
GPN-16-8'	Month 16	5/19/95	102.0	ns	ns	ns	ns	ns	
GPN-16-8'	Month 17	6/9/95	1.6	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 6	7/20/95	0.7	072020	<0.1	<0.2	6.4	7	
GPN-16-8'	Month 19	8/21/95	3.4	ns	ns	ns	ns	ns	
GPN-16-8'	Month 20	9/21/95	1.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 7	10/19/95	1.0	101918	1.0	1.8	8.1	11	
GPN-16-8'	Month 22	11/21/95	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 8	1/23/96	1.5	012309	1.4	1.7	7.3	11	
GPN-16-8'	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GPN-16-8'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 9	4/22/96	0.2	042217	<0.1	0.6	1.5	3	
GPN-16-8'	Month 28	5/22/96	0.7	ns	ns	ns	ns	ns	
GPN-16-8'	Month 29	6/28/96	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 10	7/30/96	0.4	073017	<0.1	0.7	2.1	3	
GPN-16-8'	Month 31	8/28/96	1.4	ns	ns	ns	ns	ns	
GPN-16-8'	Month 32	9/19/96	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 11	10/22/96	0.5	102217	<0.1	<0.2	2.9	3	
GPN-16-8'	Month 34	11/21/96	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 12	1/22/97	0.0	012217	<0.1	<0.2	1.2	2	
GPN-16-8'	Month 37	3/11/97	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 38	3/21/97	0.6	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 13	4/23/97	**0.2	042305	<0.1	<0.2	2.2	3	
GPN-16-8'	Month 40	5/28/97	0.3	ns	ns	ns	ns	ns	
GPN-16-8'	Month 41	6/26/97	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 14	7/24/97	0.1	072417	<0.1	1.0	2.3	4	
GPN-16-8'	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Month 44	9/23/97	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 15	10/14/97	0.5	101417	<0.1	1.0	2.2	4	
GPN-16-8'	Month 46	11/19/97	0.2	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GPN-16-8'	Month 47	12/23/97	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 16	1/22/98	0.3	012215	<0.1	<0.2	<0.5	<1	
GPN-16-8'	Month 49	2/24/98	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Month 50	3/25/98	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 17	4/9/98	0.4	040917	<0.1	<0.2	1.2	2	
GPN-16-8'	Month 52	5/22/98	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 53	6/15/98	4.9	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 18	7/30/98	0.2	073017	<0.1	<0.2	1.4	2	
GPN-16-8'	Month 55	8/25/98	3.7	ns	ns	ns	ns	ns	
GPN-16-8'	Month 56	9/21/98	4.8	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 19	10/28/98	0.2	102815	<0.1	<0.2	1.9	2	
GPN-16-8'	Month 58	11/23/98	0.2	ns	ns	ns	ns	ns	
GPN-16-8'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 20	1/21/99	0.2	012115	<0.1	<0.2	0.5	1	
GPN-16-8'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 21	4/22/99	0.1	042215	<0.1	<0.2	0.5	1	
GPN-16-8'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 22	7/28/99	0.2	072815	<0.1	<0.2	2.0	2	
GPN-16-8'	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 23	10/6/99	0.2	100616	<0.1	<0.2	<0.5	<1	
GPN-16-8'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 24	1/18/00	0.1	011816	<0.1	<0.2	<0.5	<1	
GPN-16-8'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 25	4/18/00	0.1	041815	<0.1	<0.2	0.5	1	
GPN-16-8'	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 77	6/19/00	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 26	7/26/00	1.6	072616	<0.1	0.2	1.1	2	
GPN-16-8'	Month 79	8/16/00	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Month 80	9/25/00	0.1	ns	ns	ns	ns	ns	
GPN-16-8'	Quarter 27	10/24/00	0.2	102416	<0.1	<0.2	<0.5	<1	
GPN-16-8'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-16-8'	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	
GPN-16-11'	PreStartUp	12/30/93	790.0	123005	520.0	3,210.0	41,200.0	45,511	
GPN-16-11'	Week 1	1/14/94	1.8	011419	<0.1	<0.2	6.5	7	S
GPN-16-11'	Week 2	1/21/94	3.9	012116	<0.1	<0.2	6.2	6	S
GPN-16-11'	Week 3	1/27/94	2.4	012705	<0.1	<0.2	6.4	6	S
GPN-16-11'	Month 1	2/10/11	2.0	021008	<0.1	<0.2	4.0	4	S
GPN-16-11'	Month 2	3/11/15	1.8	031111	<0.1	<0.2	14.6	15	S
GPN-16-11'	Quarter 1	4/14/94	410.0	041407	10.1	308.0	15,800.0	16,301	S
GPN-16-11'	Month 4	5/12/94	128.0	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-16-11'	Month 5	6/9/94	122.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 2	8/12/94	192.0	081224	<10.	115.0	>5,200.0	>5,310	S
GPN-16-11'	Month 7	8/30/94	152.0	ns	ns	ns	ns	ns	
GPN-16-11'	Month 8	9/30/94	*120.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 3	10/21/94	*130.0	102103	<50.	251.0	>8,240.0	>8,490	S
GPN-16-11'	Month 10	ns	ns	ns	ns	ns	ns	ns	
GPN-16-11'	Month 11	12/13/94	>200.	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 4	1/13/95	340.0	011314	<25.0	222.0	18200.0	18422	S
GPN-16-11'	Month 13	2/8/95	120.0	ns	ns	ns	ns	ns	
GPN-16-11'	Month 14	3/15/95	ns	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 5	4/11/95	220.0	041106	<50.0	148.0	8780.0	8928	S
GPN-16-11'	Month 16	5/19/95	ns	ns	ns	ns	ns	ns	
GPN-16-11'	Month 17	6/9/95	98.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 6	7/20/95	145.0	072021	<12.5	81.1	9850.0	9926	
GPN-16-11'	Month 19	8/21/95	ns	ns	ns	ns	ns	ns	
GPN-16-11'	Month 20	9/21/95	0.8	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 7	10/19/95	40.0	101919	<20.0	23.5	1050.0	1069	
GPN-16-11'	Month 22	11/21/95	60.0	ns	ns	ns	ns	ns	
GPN-16-11'	Month 23	1/11/96	95.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 8	1/23/96	1.0	012310	<0.1	1.3	5.2	7	hi vacuum
GPN-16-11'	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GPN-16-11'	Month 26	3/27/96	0.9	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 9	4/22/96	40.0	042218	<1.5	22.4	1390.0	1416	
GPN-16-11'	Month 28	5/22/96	3.4	ns	ns	ns	ns	ns	
GPN-16-11'	Month 29	6/28/96	2.3	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 10	7/30/96	65.0	073018	<2.5	25.0	983.0	1008	
GPN-16-11'	Month 31	8/28/96	1.2	ns	ns	ns	ns	ns	
GPN-16-11'	Month 32	9/19/96	1.5	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 11	10/22/96	62.0	102218	<2.5	38.1	1920.0	1960	
GPN-16-11'	Month 34	11/21/96	11.7	ns	ns	ns	ns	ns	
GPN-16-11'	Month 35	12/27/96	6.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 12	1/22/97	0.2	012218	<0.1	<0.2	4.4	5	high vac
GPN-16-11'	Month 37	3/11/97	4.4	ns	ns	ns	ns	ns	
GPN-16-11'	Month 38	3/21/97	8.3	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 13	4/23/97	**11.1	042306	<2.5	15.0	705.0	720	
GPN-16-11'	Month 40	5/28/97	17.4	ns	ns	ns	ns	ns	
GPN-16-11'	Month 41	6/26/97	19.4	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 14	7/24/97	70.0	072418	<5.0	57.5	1390.0	1450	
GPN-16-11'	Month 43	9/9/97	19.4	ns	ns	ns	ns	ns	
GPN-16-11'	Month 44	9/23/97	9.6	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 15	10/14/97	4.6	101418	<0.3	3.9	157.0	161	high vac
GPN-16-11'	Month 46	11/19/97	8.1	ns	ns	ns	ns	ns	
GPN-16-11'	Month 47	12/23/97	7.9	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 16	1/22/98	69.0	012216	<12.5	<25.0	3410.0	3410	
GPN-16-11'	Month 49	2/24/98	3.5	ns	ns	ns	ns	ns	
GPN-16-11'	Month 50	3/25/98	10.9	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-16-11'	Quarter 17	4/9/98	28.0	040918	<1.0	4.0	416.0	420	
GPN-16-11'	Month 52	5/22/98	10.0	ns	ns	ns	ns	ns	
GPN-16-11'	Month 53	6/15/98	0.1	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 18	7/30/98	26.0	073018	<2.5	<5.0	658.0	658	
GPN-16-11'	Month 55	8/25/98	0.2	ns	ns	ns	ns	ns	
GPN-16-11'	Month 56	9/21/98	0.2	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 19	10/28/98	22.0	102816	<1.5	<3.0	269.0	269	
GPN-16-11'	Month 58	11/23/98	0.5	ns	ns	ns	ns	ns	
GPN-16-11'	Month 59	12/23/98	0.1	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 20	1/21/99	12.3	012116	<0.5	2.8	339.0	342	
GPN-16-11'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-16-11'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 21	4/22/99	11.6	042216	<0.5	<1.0	168.0	169	
GPN-16-11'	Month 64	5/21/99	0.3	ns	ns	ns	ns	ns	
GPN-16-11'	Month 65	6/18/99	0.7	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 22	7/28/99	22.0	072816	<1.0	2.1	568.0	571	
GPN-16-11'	Month 67	8/27/99	0.4	ns	ns	ns	ns	ns	
GPN-16-11'	Month 68	9/13/99	0.5	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 23	10/6/99	22.0	100617	<1.0	<2.0	681.0	681	
GPN-16-11'	Month 70	11/17/99	0.3	ns	ns	ns	ns	ns	
GPN-16-11'	Month 71	12/17/99	2.1	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 24	1/18/00	30.0	011817	<1.0	<2.0	652.0	654	
GPN-16-11'	Month 73	2/14/00	0.2	ns	ns	ns	ns	ns	
GPN-16-11'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 25	4/18/00	26.0	041816	<1.0	2.9	333.0	336	
GPN-16-11'	Month 76	5/24/00	0.6	ns	ns	ns	ns	ns	
GPN-16-11'	Month 77	6/19/00	0.4	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 26	7/26/00	16.0	072617	<0.8	3.5	413.0	417	
GPN-16-11'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-16-11'	Month 80	9/25/00	0.2	ns	ns	ns	ns	ns	
GPN-16-11'	Quarter 27	10/24/00	30.0	102417	<2.0	<4.0	613.0	613	
GPN-16-11'	Month 82	11/22/00	0.2	ns	ns	ns	ns	ns	
GPN-16-11'	Month 83	12/28/00	4.8	ns	ns	ns	ns	ns	
GPN-17-4'	PreStartUp	12/30/93	650.0	123006	572.0	112.0	>18,300.0	>19,000	
GPN-17-4'	Week 1	1/14/94	480.0	011414	41.8	30.2	3,800.0	3,872	S
GPN-17-4'	Week 2	1/21/94	250.0	012118	21.9	15.7	2,690.0	2,728	S
GPN-17-4'	Week 3	1/27/94	146.0	012713	21.4	27.0	5,260.0	5,308	S
GPN-17-4'	Month 1	2/11/94	76.0	021104	6.8	7.7	1,810.0	1,825	S
GPN-17-4'	Month 2	3/11/94	11.0	031119	0.7	<0.2	133.0	134	S
GPN-17-4'	Quarter 1	4/13/94	600.0	041324	105.0	58.0	26,600.0	26,763	S
GPN-17-4'	Month 4	5/12/94	370.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 5	6/9/94	320.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 2	8/12/94	520.0	081225	74.6	84.9	>12,300.0	>12,400	S
GPN-17-4'	Month 7	8/30/94	280.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 8	9/30/94	*110.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-17-4'	Quarter 3	10/21/94	*180.0	102104	(120.0)	(135.0)	10,500.0	10,700	S
GPN-17-4'	Month 10	11/23/94	28.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 11	12/13/94	48.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 4	1/13/95	250.0	011315	<25.0	<25.0	6850.0	6888	S
GPN-17-4'	Month 13	2/8/95	6.5	ns	ns	ns	ns	ns	
GPN-17-4'	Month 14	3/15/95	1.4	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 5	4/11/95	225.0	041115	<50.0	<50.0	13,100.0	13,100	S
GPN-17-4'	Month 16	5/19/95	36.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 17	6/9/95	45.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 6	7/21/95	210.0	072110	<12.5	<25.0	10,480.0	10,480	
GPN-17-4'	Month 19	8/21/95	40.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 20	9/21/95	14.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 7	10/20/95	43.0	102010	<8.0	<8.0	749.0	749	
GPN-17-4'	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 8	1/23/96	86.0	012319	37.0	29.5	722.0	789	
GPN-17-4'	Month 25	2/19/96	12.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 26	3/27/96	7.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 9	4/23/96	350.0	042307	<12.5	<25.0	4,880.0	4,880	
GPN-17-4'	Month 28	5/22/96	360.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 29	6/28/96	390.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 10	7/31/96	480.0	073108	<12.5	<25.0	18,400.0	18,400	
GPN-17-4'	Month 31	8/28/96	320.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 32	9/19/96	340.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 11	10/23/96	250.0	102307	<12.5	<25.0	10,100.0	10,100	
GPN-17-4'	Month 34	11/21/96	250.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 35	12/27/96	80.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 12	1/23/97	64.0	012307	46.2	28.6	1,590.0	1,660	
GPN-17-4'	Month 37	3/11/97	1.6	ns	ns	ns	ns	ns	
GPN-17-4'	Month 38	3/21/97	5.4	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 13	4/23/97	**300	042313	207.0	65.0	10,000.0	10,300	
GPN-17-4'	Month 40	5/28/97	340.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 41	6/26/97	390.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 14	7/25/97	320.0	072509	732.0	263.0	34,000.0	35,000	
GPN-17-4'	Month 43	9/9/97	395.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 44	9/23/97	256.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 15	10/15/97	100.0	101507	367.0	124.0	3,400.0	3,891	
GPN-17-4'	Month 46	11/19/97	370.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 47	12/23/97	300.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 16	1/23/98	380.0	012307	<50.0	<100.0	3,150.0	3,150	
GPN-17-4'	Month 49	2/24/98	7.7	ns	ns	ns	ns	ns	
GPN-17-4'	Month 50	3/25/98	325.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 17	4/9/98	30.0	040923	3.5	5.0	440.0	449	
GPN-17-4'	Month 52	5/22/98	250.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 53	6/15/98	18.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 18	7/31/98	25.0	073107	<1.5	<3.0	874.0	874	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

Sample	Period	Date	hnu	Run	c12DCE (ug/l)	TCE (ug/l)	Perc (ug/l)	Total VOCs (ug/l)	Foot Notes
GPN-17-4'	Month 55	8/25/98	0.9	ns	ns	ns	ns	ns	
GPN-17-4'	Month 56	9/21/98	0.5	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 19	10/29/98	2.8	102906	<0.1	<0.2	29.8	30	
GPN-17-4'	Month 58	11/23/98	0.2	ns	ns	ns	ns	ns	
GPN-17-4'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 20	1/22/99	1.0	012205	<0.1	<0.2	13.4	14	
GPN-17-4'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-17-4'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 21	4/23/99	1.8	042305-06	0.1	<0.2	17.7	18	
GPN-17-4'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-17-4'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 22	7/29/99	5.5	072909-10	1.3	0.6	138.0	140	
GPN-17-4'	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 23	10/7/99	0.8	100706-07	<0.1	<0.2	15.0	15	
GPN-17-4'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 24	1/19/00	0.6	011908-09	<0.1	<0.2	7.8	8	
GPN-17-4'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 25	4/19/00	1.0	041907-08	0.2	<0.2	6.9	8	
GPN-17-4'	Month 76	5/24/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 26	7/27/00	6.3	072706-07	0.9	0.8	114.0	116	
GPN-17-4'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Quarter 27	10/25/00	2.4	102506-07	<0.1	<0.2	38.5	39	
GPN-17-4'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-17-4'	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	PreStartUp	12/30/93	730.0	123007	51.4	136.0	23,100.0	23,287	
GPN-17-8'	Week 1	1/14/94	5.2	011415	<0.1	<1.9	3.2	3	S
GPN-17-8'	Week 2	1/21/94	3.8	012120	<0.1	<0.2	7.9	8	S
GPN-17-8'	Week 3	1/28/94	2.2	012815	<0.1	<0.2	6.8	7	S
GPN-17-8'	Month 1	2/11/94	1.4	021105	<0.1	<0.2	4.2	4	S
GPN-17-8'	Month 2	3/11/94	1.2	031118	<0.1	<0.2	<0.5	<1	S
GPN-17-8'	Quarter 1	4/13/94	300.0	041325	8.8	14.5	8,260.0	8,283	S
GPN-17-8'	Month 4	5/12/94	0.9	ns	ns	ns	ns	ns	
GPN-17-8'	Month 5	6/9/94	0.6	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 2	8/12/94	270.0	081226	(19.6)	(16.6)	>8,700.0	>8,700	S
GPN-17-8'	Month 7	8/30/94	0.3	ns	ns	ns	ns	ns	
GPN-17-8'	Month 8	9/30/94	*7.4	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 3	10/21/94	*135.0	102105	(71.6)	(82.3)	6,340.0	6,490	S
GPN-17-8'	Month 10	11/23/94	1.3	ns	ns	ns	ns	ns	
GPN-17-8'	Month 11	12/13/94	0.4	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 4	1/13/95	10.0	011316/17	3.4	2.2	4780.0	4786	S

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-17-8'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-17-8'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 5	4/11/95	140.0	041116	<25.0	<25.0	4,530.0	4,530	S
GPN-17-8'	Month 16	5/19/95	ns	ns	ns	ns	ns	ns	
GPN-17-8'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 6	7/21/95	200.0	072111	<12.5	<25.0	10,310.0	10,310	
GPN-17-8'	Month 19	8/21/95	0.4	ns	ns	ns	ns	ns	
GPN-17-8'	Month 20	9/21/95	1.5	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 7	10/20/95	130.0	102011	<30.0	<30.0	3,730.0	3,730	
GPN-17-8'	Month 22	11/21/95	0.4	ns	ns	ns	ns	ns	
GPN-17-8'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 8	1/23/96	45.0	012320	<1.5	<3.0	256.0	256	
GPN-17-8'	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GPN-17-8'	Month 26	3/27/96	0.5	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 9	4/23/96	6.0	042308	1.6	0.7	40.1	43	
GPN-17-8'	Month 28	5/22/96	6.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 29	6/28/96	3.1	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 10	7/31/96	38.0	073109	<2.5	<5.0	465.0	465	
GPN-17-8'	Month 31	8/28/96	3.4	ns	ns	ns	ns	ns	
GPN-17-8'	Month 32	9/19/96	0.6	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 11	10/23/96	52.0	102308	<2.5	<5.0	1,420.0	1,420	
GPN-17-8'	Month 34	11/21/96	1.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 35	12/27/96	0.2	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 12	1/23/97	3.2	012308	<0.1	<0.2	11.3	12	
GPN-17-8'	Month 37	3/11/97	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 13	4/23/97	**1.6	042315	<2.5	<5.0	198.0	198	
GPN-17-8'	Month 40	5/28/97	3.5	ns	ns	ns	ns	ns	
GPN-17-8'	Month 41	6/26/97	2.4	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 14	7/25/97	18.2	072510	<2.0	<4.0	320.0	320	
GPN-17-8'	Month 43	9/9/97	2.1	ns	ns	ns	ns	ns	
GPN-17-8'	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 15	10/15/97	98.0	101508	<12.5	<25.0	5,330.0	5,330	
GPN-17-8'	Month 46	11/19/97	0.7	ns	ns	ns	ns	ns	
GPN-17-8'	Month 47	12/23/97	0.7	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 16	1/23/98	1.8	012308	<0.2	<0.4	36.2	37	
GPN-17-8'	Month 49	2/24/98	0.1	ns	ns	ns	ns	ns	
GPN-17-8'	Month 50	3/25/98	0.8	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 17	4/10/98	1.7	041003	0.1	<0.2	29.0	30	
GPN-17-8'	Month 52	5/22/98	1.9	ns	ns	ns	ns	ns	
GPN-17-8'	Month 53	6/15/98	0.1	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 18	7/31/98	20.0	073108	<1.5	<3.0	564.0	564	
GPN-17-8'	Month 55	8/25/98	0.1	ns	ns	ns	ns	ns	
GPN-17-8'	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 19	10/29/98	21.0	102908	<1.0	<2.0	348.0	348	
GPN-17-8'	Month 58	11/23/98	0.1	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-17-8'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 20	1/22/99	1.3	012207	<0.1	<0.2	17.3	18	
GPN-17-8'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-17-8'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 21	4/23/99	4.6	042307	<0.3	<0.6	59.1	60	
GPN-17-8'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-17-8'	Month 65	6/18/99	0.2	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 22	7/29/99	4.4	072911	<0.1	<0.2	123.0	123	
GPN-17-8'	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 68	9/13/99	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 23	10/7/99	4.3	100708	<0.2	<0.4	122.0	122	
GPN-17-8'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 24	1/19/00	6.2	011910	<0.2	<0.4	67.9	68	
GPN-17-8'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 25	4/19/00	8.8	041909	0.4	<0.8	112.0	113	
GPN-17-8'	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	
GPN-17-8'	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 26	7/27/00	24.0	072708	<1.0	2.2	695.0	698	
GPN-17-8'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Quarter 27	10/25/00	15.2	102508	<1.0	<2.0	335.0	335	
GPN-17-8'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-17-8'	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	PreStartUp	12/30/93	8.3	123009	<0.9	<1.9	53.5	54	
GPN-18-4'	Week 1	1/14/94	1.6	011403	<0.1	<0.2	10.2	10	
GPN-18-4'	Week 2	1/21/94	0.9	012109	<0.1	<0.2	6.8	7	
GPN-18-4'	Week 3	1/28/94	0.6	012811	<0.1	<0.2	6.6	7	
GPN-18-4'	Month 1	2/10/94	0.8	021014	<0.1	<0.2	4.7	5	
GPN-18-4'	Month 2	3/11/94	0.4	031113	<0.1	<0.2	2.0	2	
GPN-18-4'	Quarter 1	4/13/94	1.9	041311	<0.1	<0.2	17.5	18	
GPN-18-4'	Month 4	5/12/94	4.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 5	6/8/94	1.3	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 2	8/12/94	0.0	081210	<0.4	<0.4	27.7	28	
GPN-18-4'	Month 7	8/30/94	0.5	ns	ns	ns	ns	ns	
GPN-18-4'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 3	10/21/94	*1.0	102119	<0.9	<1.0	8.1	8	
GPN-18-4'	Month 10	11/23/94	0.9	ns	ns	ns	ns	ns	
GPN-18-4'	Month 11	12/13/94	0.3	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 4	1/12/95	0.4	011210	<0.2	<0.2	1.3	1	
GPN-18-4'	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GPN-18-4'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 5	4/11/95	1.4	041110	<0.1	<0.2	4.5	5	
GPN-18-4'	Month 16	5/19/95	1.8	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GPN-18-4'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 6	7/21/95	0.7	072105	<0.1	<0.2	12.9	13	
GPN-18-4'	Month 19	8/21/95	1.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 20	9/21/95	0.4	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 7	10/20/95	0.4	102005	<0.4	<0.4	3.3	4	
GPN-18-4'	Month 22	11/21/95	ns	ns	ns	ns	ns	ns	
GPN-18-4'	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 8	1/23/96	0.3	012313	<0.1	<0.2	1.0	1	
GPN-18-4'	Month 25	2/19/96	0.6	ns	ns	ns	ns	ns	
GPN-18-4'	Month 26	3/27/96	ns	ns	ns	ns	ns	ns	can't find
GPN-18-4'	Quarter 9	4/23/96	0.6	042305	<0.1	<0.2	0.9	1	
GPN-18-4'	Month 28	5/22/96	0.3	ns	ns	ns	ns	ns	
GPN-18-4'	Month 29	6/28/96	ns	ns	ns	ns	ns	ns	full of water
GPN-18-4'	Quarter 10	7/31/96	0.8	073106	<0.1	<0.2	4.8	5	
GPN-18-4'	Month 31	8/28/96	0.6	ns	ns	ns	ns	ns	
GPN-18-4'	Month 32	9/19/96	0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 11	10/23/96	0.7	102305	<0.1	<0.2	2.4	3	
GPN-18-4'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 35	12/27/96	ns	ns	ns	ns	ns	ns	can't find
GPN-18-4'	Quarter 12	1/23/97	0.0	012305	<0.1	<0.2	0.9	1	
GPN-18-4'	Month 37	3/11/97	ns	ns	ns	ns	ns	ns	can't find
GPN-18-4'	Month 38	3/21/97	ns	ns	ns	ns	ns	ns	can't find
GPN-18-4'	Quarter 13	4/23/97	**0.0	042309	<0.1	<0.2	1.1	2	
GPN-18-4'	Month 40	5/28/97	0.3	ns	ns	ns	ns	ns	
GPN-18-4'	Month 41	6/26/97	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 14	7/25/97	0.0	072505	<0.1	1.0	4.6	6	
GPN-18-4'	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 44	9/23/97	0.1	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 15	10/15/97	0.2	101505	<0.1	<0.2	2.0	2	
GPN-18-4'	Month 46	11/19/97	0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Month 47	12/23/97	0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 16	1/23/98	0.1	012305	<0.1	<0.2	0.5	1	
GPN-18-4'	Month 49	2/24/98	ns	ns	ns	ns	ns	ns	can't find
GPN-18-4'	Month 50	3/25/98	ns	ns	ns	ns	ns	ns	can't find
GPN-18-4'	Quarter 17	4/9/98	0.1	040921	<0.1	<0.2	0.6	1	
GPN-18-4'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 18	7/31/98	0.4	073104	<0.1	<0.2	4.0	4	
GPN-18-4'	Month 55	8/25/98	0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Month 56	9/21/98	0.1	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 19	10/28/98	0.0	102819	<0.1	<0.2	0.5	1	
GPN-18-4'	Month 58	11/23/98	0.9	ns	ns	ns	ns	ns	
GPN-18-4'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 20	1/21/99	0.2	012119	<0.1	<0.2	0.7	1	
GPN-18-4'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-18-4'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-18-4'	Quarter 21	4/22/99	0.0	042219	<0.1	<0.2	<0.5	<1	
GPN-18-4'	Month 64	5/21/99	0.2	ns	ns	ns	ns	ns	
GPN-18-4'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 22	7/29/99	0.2	072904	<0.1	<0.2	2.3	3	
GPN-18-4'	Month 67	8/27/99	1.7	ns	ns	ns	ns	ns	
GPN-18-4'	Month 68	9/13/99	0.6	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 23	10/6/99	0.1	100620	<0.1	<0.2	0.8	1	
GPN-18-4'	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 24	1/19/00	0.1	011904	<0.1	<0.2	<0.5	<1	
GPN-18-4'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 25	4/19/00	0.0	041903	<0.1	<0.2	<0.5	<1	
GPN-18-4'	Month 76	5/24/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 26	7/26/00	2.0	072620	<0.1	<0.2	3.1	4	
GPN-18-4'	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 80	9/25/00	0.1	ns	ns	ns	ns	ns	
GPN-18-4'	Quarter 27	10/24/00	0.2	102420	<0.1	<0.2	<0.5	<1	
GPN-18-4'	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GPN-18-4'	Month 83	12/28/00	ns	ns	ns	ns	ns	ns	can't locate under piled snow
GPN-18-8'	PreStartUp	12/10/93	38.0	121007	<1.5	<2.5	191.0	191	
GPN-18-8'	PreStartUp	12/30/93	38.0	123010	<4.5	<9.5	427.0	427	
GPN-18-8'	Week 1	1/14/94	3.8	011404	<0.1	<0.2	20.3	20	
GPN-18-8'	Week 2	1/21/94	3.6	012110	<0.2	<0.2	33.3	33	
GPN-18-8'	Week 3	1/28/94	1.9	012812	<0.1	<0.2	18.9	19	
GPN-18-8'	Month 1	2/10/11	1.7	021015	<0.1	<0.2	9.3	9	
GPN-18-8'	Month 2	3/11/15	0.8	031114	<0.1	<0.2	<2.8	<3	
GPN-18-8'	Quarter 1	4/13/94	4.3	041312	<0.1	<0.2	55.8	56	
GPN-18-8'	Month 4	5/12/94	5.5	ns	ns	ns	ns	ns	
GPN-18-8'	Month 5	6/8/94	3.8	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 2	8/12/94	0.0	081212	<0.4	1.3	128.0	129	
GPN-18-8'	Month 7	8/30/94	2.3	ns	ns	ns	ns	ns	
GPN-18-8'	Month 8	9/30/94	*0.5	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 3	10/21/94	*2.6	102120	<0.9	<1.0	55.4	55	
GPN-18-8'	Month 10	11/23/94	3.4	ns	ns	ns	ns	ns	
GPN-18-8'	Month 11	12/13/94	1.0	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 4	1/13/95	1.4	011310	<0.4	<0.4	13.6	14	
GPN-18-8'	Month 13	2/8/95	1.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 5	4/11/95	1.4	041111	<0.1	<0.2	10.4	11	
GPN-18-8'	Month 16	5/19/95	2.4	ns	ns	ns	ns	ns	
GPN-18-8'	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 6	7/21/95	1.8	072106	<0.1	<0.2	33.6	34	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GPN-18-8'	Month 19	8/21/95	2.5	ns	ns	ns	ns	ns	
GPN-18-8'	Month 20	9/21/95	1.4	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 7	10/20/95	1.8	102006	<0.4	<0.4	20.1	21	
GPN-18-8'	Month 22	11/21/95	ns	ns	ns	ns	ns	ns	
GPN-18-8'	Month 23	1/11/96	0.6	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 8	1/23/96	0.9	012314	<0.1	<0.2	4.1	5	
GPN-18-8'	Month 25	2/19/96	1.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 26	3/27/96	ns	ns	ns	ns	ns	ns	can't find
GPN-18-8'	Quarter 9	4/23/96	1.8	042306	<0.1	<0.2	2.3	3	
GPN-18-8'	Month 28	5/22/96	2.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 29	6/28/96	ns	ns	ns	ns	ns	ns	full of water
GPN-18-8'	Quarter 10	7/31/96	2.0	073107	<0.1	<0.2	24.1	25	
GPN-18-8'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Month 32	9/19/96	1.4	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 11	10/23/96	1.5	102306	<0.1	<0.2	13.5	14	
GPN-18-8'	Month 34	11/21/96	0.1	ns	ns	ns	ns	ns	
GPN-18-8'	Month 35	12/27/96	ns	ns	ns	ns	ns	ns	can't find
GPN-18-8'	Quarter 12	1/23/97	0.3	012306	<0.1	<0.2	1.8	2	
GPN-18-8'	Month 37	3/11/97	ns	ns	ns	ns	ns	ns	can't find
GPN-18-8'	Month 38	3/21/97	ns	ns	ns	ns	ns	ns	can't find
GPN-18-8'	Quarter 13	4/23/97	**0.0	042310	<0.1	<0.2	0.9	1	
GPN-18-8'	Month 40	5/28/97	0.4	ns	ns	ns	ns	ns	
GPN-18-8'	Month 41	6/26/97	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 14	7/25/97	0.0	072506	<0.1	0.9	11.9	13	
GPN-18-8'	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 44	9/23/97	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 15	10/15/97	0.5	101506	<0.1	<0.2	7.4	8	
GPN-18-8'	Month 46	11/19/97	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Month 47	12/23/97	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 16	1/23/98	0.1	012306	<0.1	<0.2	0.9	1	
GPN-18-8'	Month 49	2/24/98	ns	ns	ns	ns	ns	ns	can't find
GPN-18-8'	Month 50	3/25/98	ns	ns	ns	ns	ns	ns	can't find
GPN-18-8'	Quarter 17	4/9/98	0.1	040922	<0.1	<0.2	1.0	1	
GPN-18-8'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 18	7/31/98	0.4	073105	<0.1	<0.2	12.7	13	
GPN-18-8'	Month 55	8/25/98	21.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 56	9/21/98	0.3	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 19	10/28/98	0.3	102820	<0.1	<0.2	3.5	4	
GPN-18-8'	Month 58	11/23/98	0.6	ns	ns	ns	ns	ns	
GPN-18-8'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 20	1/21/99	0.2	012120	<0.1	<0.2	1.4	2	
GPN-18-8'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-18-8'	Month 62	3/23/99	0.1	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 21	4/22/99	0.1	042220	<0.1	<0.2	<0.5	<1	
GPN-18-8'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-18-8'	Month 65	6/18/99	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 22	7/29/99	0.4	072905	<0.1	<0.2	6.7	7	
GPN-18-8'	Month 67	8/27/99	2.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 68	9/13/99	0.4	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 23	10/6/99	0.2	100621	<0.1	<0.2	1.2	2	
GPN-18-8'	Month 70	11/17/99	0.1	ns	ns	ns	ns	ns	
GPN-18-8'	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 24	1/19/00	0.0	011905	<0.1	<0.2	<0.5	<1	
GPN-18-8'	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 25	4/19/00	0.0	041904	<0.1	<0.2	0.5	1	
GPN-18-8'	Month 76	5/24/00	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 26	7/26/00	3.0	072621	<0.1	<0.2	8.1	9	
GPN-18-8'	Month 79	8/16/00	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Month 80	9/25/00	0.2	ns	ns	ns	ns	ns	
GPN-18-8'	Quarter 27	10/24/00	0.2	102421	<0.1	<0.2	3.4	4	
GPN-18-8'	Month 82	11/22/00	0.3	ns	ns	ns	ns	ns	
GPN-18-8'	Month 83	12/28/00	ns	ns	ns	ns	ns	ns	can't locate under piled snow
GPN-19-4'	PreStartUp	12/30/93	42.0	123011	4.7	5.4	306.0	316	
GPN-19-4'	Week 1	1/14/94	0.3	011406	<0.1	<0.2	<0.5	<1	
GPN-19-4'	Week 2	1/20/94	0.7	012010	<0.1	<0.2	<0.5	<1	
GPN-19-4'	Week 3	1/27/94	0.2	012704	<0.1	<0.2	<0.5	<1	
GPN-19-4'	Month 1	2/9/94	0.2	020905	<0.1	<0.2	<0.5	<1	
GPN-19-4'	Month 2	3/10/94	0.3	031004	<0.1	<0.2	<0.5	<1	
GPN-19-4'	Quarter 1	4/13/94	2.5	041316	0.4	0.7	21.6	23	
GPN-19-4'	Month 4	5/12/94	0.5	ns	ns	ns	ns	ns	
GPN-19-4'	Month 5	6/9/94	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 2	8/11/94	1.8	081124	<0.9	<1.9	13.0	13	
GPN-19-4'	Month 7	8/30/94	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 3	10/21/94	*2.2	102116	<0.9	<1.0	8.1	8	
GPN-19-4'	Month 10	11/23/94	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 4	1/12/95	0.3	011220	<0.2	<0.2	0.3	<1	
GPN-19-4'	Month 13	2/8/95	0.3	ns	ns	ns	ns	ns	
GPN-19-4'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 5	4/10/95	0.7	041003	<0.1	<0.2	3.8	4	
GPN-19-4'	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GPN-19-4'	Month 17	6/9/95	0.5	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 6	7/19/95	1.1	071918	<0.1	0.7	14.0	15	
GPN-19-4'	Month 19	8/21/95	1.0	ns	ns	ns	ns	ns	
GPN-19-4'	Month 20	9/21/95	0.8	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 7	10/18/95	0.9	101816	<0.4	1.6	8.3	10	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-19-4'	Month 22	11/21/95	5.8	ns	ns	ns	ns	ns	
GPN-19-4'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 8	1/22/96	0.8	012209	<0.1	0.8	3.2	4	
GPN-19-4'	Month 25	2/19/96	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Month 26	3/27/96	0.5	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 9	4/22/96	0.5	042206	<0.1	<0.2	3.7	4	
GPN-19-4'	Month 28	5/22/96	0.6	ns	ns	ns	ns	ns	
GPN-19-4'	Month 29	6/28/96	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 10	7/30/96	0.2	073006	<0.1	0.9	8.1	9	
GPN-19-4'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Month 32	9/19/96	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 11	10/22/96	1.0	102206	<0.1	1.1	9.9	11	
GPN-19-4'	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 12	1/22/97	0.4	012206	<0.1	1.0	3.0	4	
GPN-19-4'	Month 37	3/11/97	0.3	ns	ns	ns	ns	ns	
GPN-19-4'	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 13	4/22/97	0.2	042207	<0.1	<0.2	1.5	2	
GPN-19-4'	Month 40	5/28/97	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Month 41	6/26/97	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 14	7/24/97	0.0	072406	3.0	1.2	4.4	9	
GPN-19-4'	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 15	10/14/97	0.4	101406	3.0	1.4	3.1	8	
GPN-19-4'	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 16	1/22/98	0.1	012206	<0.1	<0.2	0.5	1	
GPN-19-4'	Month 49	2/24/98	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Month 50	3/25/98	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 17	4/9/98	0.2	040906	<0.1	<0.2	0.8	1	
GPN-19-4'	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 18	7/30/98	0.4	073006	<0.1	<0.2	15.5	16	
GPN-19-4'	Month 55	8/25/98	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 56	9/21/98	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 19	10/28/98	0.2	102806	<0.1	<0.2	2.0	2	
GPN-19-4'	Month 58	11/23/98	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 20	1/21/99	0.0	012106	<0.1	0.2	1.6	2	
GPN-19-4'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 21	4/22/99	0.3	042206	<0.1	<0.2	2.0	2	
GPN-19-4'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 65	6/18/99	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 22	7/28/99	0.8	072806	<0.1	<0.2	16.7	17	
GPN-19-4'	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-19-4'	Month 68	9/13/99	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 23	10/6/99	1.0	100607	<0.1	<0.2	11.9	12	
GPN-19-4'	Month 70	11/17/99	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Month 71	12/17/99	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 24	1/18/00	0.2	011807	<0.1	<0.2	0.7	1	
GPN-19-4'	Month 73	2/14/00	1.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 74	3/10/00	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 25	4/18/00	0.5	041806	0.1	0.2	3.0	4	
GPN-19-4'	Month 76	5/24/00	0.9	ns	ns	ns	ns	ns	
GPN-19-4'	Month 77	6/19/00	0.4	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 26	7/26/00	0.6	072607	0.2	0.2	2.9	4	
GPN-19-4'	Month 79	8/16/00	0.2	ns	ns	ns	ns	ns	
GPN-19-4'	Month 80	9/25/00	0.6	ns	ns	ns	ns	ns	
GPN-19-4'	Quarter 27	10/24/00	0.5	102407	<0.1	<0.2	3.5	4	
GPN-19-4'	Month 82	11/22/00	1.1	ns	ns	ns	ns	ns	
GPN-19-4'	Month 83	12/28/00	0.8	ns	ns	ns	ns	ns	
GPN-19-8'	PreStartUp	12/10/93	46.0	121009/11	5.2	5.8	225.0	236	
GPN-19-8'	Week 1	1/14/94	0.2	011407	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Week 2	1/20/94	0.5	012011	<0.1	<0.2	1.1	1	
GPN-19-8'	Week 3	1/27/94	0.3	012705	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 1	2/9/94	0.3	020906	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 2	3/10/94	0.6	031005	<0.1	<0.2	1.3	1	
GPN-19-8'	Quarter 1	4/13/94	3.4	041317	0.5	1.4	31.1	33	
GPN-19-8'	Month 4	5/12/94	0.3	ns	ns	ns	ns	ns	
GPN-19-8'	Month 5	6/9/94	0.4	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 2	8/11/94	1.8	081125	<0.9	<1.9	9.4	9	
GPN-19-8'	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 3	10/21/94	*1.7	102117	<0.9	<1.0	4.6	5	
GPN-19-8'	Month 10	11/23/94	0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 4	1/12/95	0.3	011221	<0.2	<0.2	0.4	<1	
GPN-19-8'	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Month 14	3/15/95	0.3	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 5	4/10/95	0.5	041005	<0.1	<0.2	1.9	2	
GPN-19-8'	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GPN-19-8'	Month 17	6/9/95	0.3	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 6	7/19/95	0.2	071919	<0.1	<0.2	1.1	2	
GPN-19-8'	Month 19	8/21/95	4.6	ns	ns	ns	ns	ns	
GPN-19-8'	Month 20	9/21/95	3.6	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 7	10/18/95	0.3	101817	<0.4	<0.4	1.8	2	
GPN-19-8'	Month 22	11/21/95	10.8	ns	ns	ns	ns	ns	
GPN-19-8'	Month 23	1/11/96	0.3	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 8	1/22/96	0.0	012210	<0.1	<0.2	0.7	1	
GPN-19-8'	Month 25	2/19/96	0.4	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-19-8'	Month 26	3/27/96	0.4	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 9	4/22/96	0.2	042207	<0.1	<0.2	1.0	1	
GPN-19-8'	Month 28	5/22/96	0.6	ns	ns	ns	ns	ns	
GPN-19-8'	Month 29	6/28/96	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 10	7/30/96	0.1	073007	<0.1	<0.2	1.2	2	
GPN-19-8'	Month 31	8/28/96	0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Month 32	9/19/96	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 11	10/22/96	0.2	102207	<0.1	<0.2	1.1	2	
GPN-19-8'	Month 34	11/21/96	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 12	1/22/97	0.0	012207	<0.1	<0.2	1.2	2	
GPN-19-8'	Month 37	3/11/97	0.2	ns	ns	ns	ns	ns	
GPN-19-8'	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 13	4/22/97	0.1	042208	<0.1	<0.2	0.5	1	
GPN-19-8'	Month 40	5/28/97	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 41	6/26/97	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 14	7/24/97	0.0	072407	<0.1	<0.2	1.2	2	
GPN-19-8'	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 15	10/14/97	0.3	101407	<0.1	1.0	3.2	6	
GPN-19-8'	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 16	1/22/98	0.0	012207	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 49	2/24/98	0.3	ns	ns	ns	ns	ns	
GPN-19-8'	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 17	4/9/98	0.0	040907	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 52	5/22/98	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 18	7/30/98	0.2	073007	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 55	8/25/98	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Month 56	9/21/98	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 19	10/28/98	0.1	102807	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 58	11/23/98	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 20	1/21/99	0.0	012107	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 21	4/22/99	0.0	042207	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 22	7/28/99	0.0	072807	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 67	8/27/99	0.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 68	9/13/99	0.8	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 23	10/6/99	0.2	100608	<0.1	<0.2	2.4	3	
GPN-19-8'	Month 70	11/17/99	2.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 71	12/17/99	0.1	ns	ns	ns	ns	ns	

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**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GPN-19-8'	Quarter 24	1/18/00	0.2	011808	<0.1	<0.2	<0.5	<1	
GPN-19-8'	Month 73	2/14/00	1.9	ns	ns	ns	ns	ns	
GPN-19-8'	Month 74	3/10/00	0.7	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 25	4/18/00	0.5	041807	<0.1	<0.2	1.6	2	
GPN-19-8'	Month 76	5/24/00	2.1	ns	ns	ns	ns	ns	
GPN-19-8'	Month 77	6/19/00	0.5	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 26	7/26/00	0.5	072608	<0.1	<0.2	2.5	3	
GPN-19-8'	Month 79	8/16/00	0.4	ns	ns	ns	ns	ns	
GPN-19-8'	Month 80	9/25/00	0.8	ns	ns	ns	ns	ns	
GPN-19-8'	Quarter 27	10/24/00	0.2	102408	<0.1	<0.2	1.9	2	
GPN-19-8'	Month 82	11/22/00	1.2	ns	ns	ns	ns	ns	
GPN-19-8'	Month 83	12/28/00	0.6	ns	ns	ns	ns	ns	
GP-14	PreStartUp	12/30/93	1.0	123012	<0.1	<0.2	6.3	6	
GP-14	Week 1	1/13/94	0.6	011303	<0.1	<0.2	2.0	2	S
GP-14	Week 2	1/20/94	0.5	012016	<0.1	<0.2	1.8	2	S
GP-14	Week 3	1/27/94	0.3	012708	<0.1	<0.2	1.4	1	S
GP-14	Month 1	2/9/94	0.5	020917	<0.1	<0.2	0.9	1	S
GP-14	Month 2	3/10/94	0.7	031014	<0.1	<0.2	0.7	1	S
GP-14	Quarter 1	4/12/94	1.0	041215	<0.1	<0.2	0.9	1	S
GP-14	Month 4	5/12/94	1.8	ns	ns	ns	ns	ns	
GP-14	Month 5	6/9/94	0.5	ns	ns	ns	ns	ns	
GP-14	Quarter 2	8/11/94	0.5	081109	<0.4	<0.4	0.9	1	S
GP-14	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GP-14	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GP-14	Quarter 3	10/19/94	*0.0	101916	<0.9	<1.0	1.5	2	S
GP-14	Month 10	11/23/94	0.3	ns	ns	ns	ns	ns	
GP-14	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GP-14	Quarter 4	1/12/95	0.6	011209	<0.2	<0.2	0.7	1	S
GP-14	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GP-14	Month 14	3/15/95	0.5	ns	ns	ns	ns	ns	
GP-14	Quarter 5	4/10/95	0.2	041010	<0.1	<0.2	1.3	2	S
GP-14	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GP-14	Month 17	6/9/95	1.6	ns	ns	ns	ns	ns	
GP-14	Quarter 6	7/20/95	0.3	072007	<0.1	<0.2	0.3	1	
GP-14	Month 19	8/21/95	1.2	ns	ns	ns	ns	ns	
GP-14	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GP-14	Quarter 7	10/19/95	0.2	101905	<0.4	<0.4	1.2	2	
GP-14	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GP-14	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GP-14	Quarter 8	1/22/96	0.0	012216	<0.1	<0.2	0.5	1	
GP-14	Month 25	2/19/96	0.3	ns	ns	ns	ns	ns	
GP-14	Quarter 9	4/23/96	0.2	ns	ns	ns	ns	ns	
GP-14	Quarter 10	7/31/96	0.4	ns	ns	ns	ns	ns	
GP-14	Quarter 11	10/23/96	0.4	ns	ns	ns	ns	ns	
GP-14	Quarter 12	1/23/97	0.0	ns	ns	ns	ns	ns	

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**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GP-14	Quarter 13	4/22/97	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 15	10/13/97	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 16	1/22/98	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 17	4/8/98	0.1	ns	ns	ns	ns	ns	
GP-14	Quarter 18	7/30/98	0.1	ns	ns	ns	ns	ns	
GP-14	Quarter 19	10/28/98	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 22	7/27/99	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 23	10/5/99	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 24	1/17/00	0.1	ns	ns	ns	ns	ns	
GP-14	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GP-14	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GP-15	PreStartUp	12/30/94	0.3	123013	<0.1	<0.2	4.9	5	
GP-15	Week 1	1/12/94	3.1	011218	<0.1	<0.2	<0.5	<1	S
GP-15	Week 2	1/20/94	0.5	012004	<0.1	<0.2	<0.5	<1	S
GP-15	Week 3	1/26/94	1.1	012612	<0.1	<0.2	<0.5	<1	S
GP-15	Month 1	2/9/94	ns	ns	ns	ns	ns	<1	S
GP-15	Month 2	3/9/94	3.2	030917	<0.1	<0.2	<0.5	<1	S
GP-15	Quarter 1	4/12/94	0.8	041212	<0.1	<0.2	<0.5	<1	
GP-15	Month 4	5/12/94	2.0	ns	ns	ns	ns	ns	
GP-15	Month 5	6/9/94	1.1	ns	ns	ns	ns	ns	
GP-15	Quarter 2	8/11/94	0.5	081110	<0.4	<0.4	(0.4)	<1	S
GP-15	Month 7	8/30/94	0.1	ns	ns	ns	ns	ns	
GP-15	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GP-15	Quarter 3	10/20/94	*0.8	102010	<0.9	<1.0	<1.0	<3	S
GP-15	Month 10	11/29/94	0.1	ns	ns	ns	ns	ns	
GP-15	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GP-15	Quarter 4	1/12/95	0.3	011205	<0.2	<0.2	<0.3	<1	S
GP-15	Month 13	2/8/95	0.2	ns	ns	ns	ns	ns	
GP-15	Month 14	3/15/95	0.7	ns	ns	ns	ns	ns	
GP-15	Quarter 5	4/7/95	0.3	040713	<0.1	<0.2	1.5	2	S
GP-15	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GP-15	Month 17	6/9/95	1.0	ns	ns	ns	ns	ns	
GP-15	Quarter 6	7/19/95	0.3	071908	<0.1	<0.2	<0.5	<1	
GP-15	Month 19	8/21/95	1.8	ns	ns	ns	ns	ns	
GP-15	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GP-15	Quarter 7	10/18/95	0.2	101807	<0.4	<0.4	1.6	2	
GP-15	Month 22	11/21/95	0.6	ns	ns	ns	ns	ns	
GP-15	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GP-15	Quarter 8	1/22/96	0.0	012203	<0.1	<0.2	<0.5	<1	
GP-15	Month 25	2/19/96	0.3	ns	ns	ns	ns	ns	
GP-15	Quarter 9	4/23/96	0.2	ns	ns	ns	ns	ns	

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**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-15	Quarter 10	7/31/96	0.6	ns	ns	ns	ns	ns	
GP-15	Quarter 11	10/23/96	0.6	ns	ns	ns	ns	ns	
GP-15	Quarter 12	1/23/97	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 13	4/25/97	**0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 14	7/23/97	0.1	ns	ns	ns	ns	ns	
GP-15	Quarter 15	10/13/97	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 16	1/22/98	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 17	4/8/98	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 18	7/30/98	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 19	10/28/98	0.1	ns	ns	ns	ns	ns	
GP-15	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 22	7/27/99	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 23	10/5/99	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 24	1/17/00	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GP-15	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GP-16	PreStartUp	12/30/93	12.2	123014	<0.9	<1.9	90.3	90	
GP-16	Week 1	1/13/94	9.1	011317	<0.9	<1.9	44.0	44	S
GP-16	Week 2	1/20/94	5.5	012025	0.2	0.3	45.7	46	S
GP-16	Week 3	1/27/94	4.2	012719	0.2	0.2	34.3	35	S
GP-16	Month 1	2/11/94	4.6	021106	0.1	0.2	37.1	37	S
GP-16	Month 2	3/11/94	3.2	031117	0.1	<0.2	8.8	9	S
GP-16	Quarter 1	4/13/94	6.2	041315	0.4	0.3	40.4	41	S
GP-16	Month 4	5/12/94	10.4	ns	ns	ns	ns	ns	
GP-16	Month 5	6/9/94	8.1	ns	ns	ns	ns	ns	
GP-16	Quarter 2	8/12/94	13.5	081205	<0.9	<1.9	141.0	141	S
GP-16	Month 7	8/30/94	5.6	ns	ns	ns	ns	ns	
GP-16	Month 8	9/30/94	*1.4	ns	ns	ns	ns	ns	
GP-16	Quarter 3	10/20/94	*4.5	102011	0.9	1.1	60.8	63	S
GP-16	Month 10	11/29/94	2.0	ns	ns	ns	ns	ns	
GP-16	Month 11	12/13/94	2.4	ns	ns	ns	ns	ns	
GP-16	Quarter 4	1/13/95	1.8	011311	0.3	<0.2	19.1	19	S
GP-16	Month 13	2/8/95	1.4	ns	ns	ns	ns	ns	
GP-16	Month 14	3/15/95	2.3	ns	ns	ns	ns	ns	
GP-16	Quarter 5	4/11/95	3.2	041114	<0.1	<0.2	28.0	28	S
GP-16	Month 16	5/19/95	3.3	ns	ns	ns	ns	ns	
GP-16	Month 17	6/9/95	3.4	ns	ns	ns	ns	ns	
GP-16	Quarter 6	7/21/95	4.8	072109	<0.1	<0.2	69.9	70	
GP-16	Month 19	8/21/95	6.4	ns	ns	ns	ns	ns	
GP-16	Month 20	9/21/95	2.8	ns	ns	ns	ns	ns	
GP-16	Quarter 7	10/20/95	4.2	102009	<0.4	<0.4	42.5	43	
GP-16	Month 22	11/21/95	3.2	ns	ns	ns	ns	ns	
GP-16	Month 23	1/11/96	1.4	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-16	Quarter 8	1/23/96	2.3	012318	1.4	1.1	13.5	16	
GP-16	Month 25	2/19/96	2.8	ns	ns	ns	ns	ns	
GP-16	Quarter 9	4/23/96	0.3	ns	ns	ns	ns	ns	
GP-16	Quarter 10	7/31/96	3.5	ns	ns	ns	ns	ns	
GP-16	Quarter 11	10/23/96	2.4	ns	ns	ns	ns	ns	
GP-16	Quarter 12	1/23/97	2.9	ns	ns	ns	ns	ns	
GP-16	Quarter 13	4/22/97	2.3	ns	ns	ns	ns	ns	
GP-16	Quarter 14	7/23/97	5.4	ns	ns	ns	ns	ns	
GP-16	Quarter 15	10/13/97	1.4	ns	ns	ns	ns	ns	
GP-16	Quarter 16	1/22/98	2.8	ns	ns	ns	ns	ns	
GP-16	Quarter 17	4/8/98	1.9	ns	ns	ns	ns	ns	
GP-16	Quarter 18	7/30/98	2.0	ns	ns	ns	ns	ns	
GP-16	Quarter 19	10/28/98	3.2	ns	ns	ns	ns	ns	
GP-16	Quarter 20	1/21/99	2.7	ns	ns	ns	ns	ns	
GP-16	Quarter 21	4/22/99	1.9	ns	ns	ns	ns	ns	
GP-16	Quarter 22	7/27/99	2.2	ns	ns	ns	ns	ns	
GP-16	Quarter 23	10/5/99	2.8	ns	ns	ns	ns	ns	
GP-16	Quarter 24	1/17/00	2.7	ns	ns	ns	ns	ns	
GP-16	Quarter 25	4/17/00	0.6	ns	ns	ns	ns	ns	
GP-16	Quarter 26	7/26/00	2.6	ns	ns	ns	ns	ns	
GP-16	Quarter 27	10/23/00	1.6	ns	ns	ns	ns	ns	
GP-17	PreStartUp	12/30/93	50.0	123015	<0.9	<1.9	343.0	343	
GP-17	Week 1	1/13/94	1.3	011321	<0.1	<0.2	3.6	4	S
GP-17	Week 2	1/20/94	1.2	012024	<0.1	<0.2	2.0	2	S
GP-17	Week 3	1/27/94	0.4	012709	<0.1	<0.2	1.6	2	S
GP-17	Month 1	2/9/94	0.6	020918	<0.1	<0.2	0.9	1	S
GP-17	Month 2	3/10/94	1.8	031015	<0.1	<0.2	16.8	17	S
GP-17	Quarter 1	4/14/94	3.1	041404	<0.1	0.4	34.1	34	S
GP-17	Month 4	5/12/94	1.4	ns	ns	ns	ns	ns	
GP-17	Month 5	6/9/94	1.0	ns	ns	ns	ns	ns	
GP-17	Quarter 2	8/12/94	0.0	081206	<0.4	<0.4	20.9	21	S
GP-17	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GP-17	Month 8	9/30/94	*0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 3	10/21/94	*1.5	102118	<0.9	<1.0	5.4	5	S
GP-17	Month 10	11/23/94	0.4	ns	ns	ns	ns	ns	
GP-17	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GP-17	Quarter 4	1/12/95	0.3	011218	<0.2	<0.2	1.4	1	S
GP-17	Month 13	2/8/95	0.3	ns	ns	ns	ns	ns	
GP-17	Month 14	3/15/95	0.9	ns	ns	ns	ns	ns	
GP-17	Quarter 5	4/10/95	0.3	041011	<0.1	<0.2	1.7	2	S
GP-17	Month 16	5/19/95	0.9	ns	ns	ns	ns	ns	
GP-17	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	
GP-17	Quarter 6	7/20/95	0.3	072008	<0.1	<0.2	3.0	3	
GP-17	Month 19	8/21/95	1.4	ns	ns	ns	ns	ns	
GP-17	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	

TABLE C-2

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GP-17	Quarter 7	10/19/95	0.3	101906	<0.4	<0.4	1.6	2	
GP-17	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GP-17	Month 23	1/11/96	0.4	ns	ns	ns	ns	ns	
GP-17	Quarter 8	1/22/96	0.0	012217	<0.1	<0.2	0.6	1	
GP-17	Month 25	2/19/96	0.4	ns	ns	ns	ns	ns	
GP-17	Quarter 9	4/23/96	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 10	7/31/96	0.4	ns	ns	ns	ns	ns	
GP-17	Quarter 11	10/23/96	0.4	ns	ns	ns	ns	ns	
GP-17	Quarter 12	1/23/97	0.1	ns	ns	ns	ns	ns	
GP-17	Quarter 13	4/22/97	0.1	ns	ns	ns	ns	ns	
GP-17	Quarter 14	7/23/97	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 15	10/13/97	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 16	1/22/98	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 17	4/8/98	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 18	7/30/98	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 19	10/28/98	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 20	1/21/99	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 21	4/22/99	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 22	7/27/99	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 23	10/5/99	0.1	ns	ns	ns	ns	ns	
GP-17	Quarter 24	1/17/00	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 25	4/17/00	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 26	7/26/00	0.0	ns	ns	ns	ns	ns	
GP-17	Quarter 27	10/23/00	0.0	ns	ns	ns	ns	ns	
GP-18	PreStartUp	12/30/93	2.8	123016	<0.1	<0.2	14.6	15	
GP-18	Week 1	1/13/94	0.3	011305	<0.1	<0.2	<0.5	<1	S
GP-18	Week 2	1/20/94	0.4	012005	<0.1	<0.2	<0.5	<1	S
GP-18	Week 3	1/26/94	0.4	012613	<0.1	<0.2	<0.5	<1	S
GP-18	Month 1	2/9/94	0.3	020904	<0.1	<0.2	<0.5	<1	S
GP-18	Month 2	3/9/94	0.8	030918	<0.1	<0.2	<0.5	<1	S
GP-18	Quarter 1	4/12/94	1.2	041216	<0.1	<0.2	2.3	2	S
GP-18	Month 4	5/12/94	1.2	ns	ns	ns	ns	ns	
GP-18	Month 5	6/9/94	0.6	ns	ns	ns	ns	ns	
GP-18	Quarter 2	8/11/94	0.8	081111	<0.4	<0.4	4.8	5	S
GP-18	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GP-18	Month 8	9/30/94	*0.4	ns	ns	ns	ns	ns	
GP-18	Quarter 3	10/21/94	*1.2	102110	<0.9	<1.0	1.8	2	S
GP-18	Month 10	11/23/94	1.0	ns	ns	ns	ns	ns	
GP-18	Month 11	12/13/94	0.3	ns	ns	ns	ns	ns	
GP-18	Quarter 4	1/12/95	0.3	011217	<0.2	<0.2	0.5	1	S
GP-18	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GP-18	Month 14	3/15/95	0.4	ns	ns	ns	ns	ns	
GP-18	Quarter 5	4/7/95	0.3	040714	<0.1	<0.2	1.7	2	S
GP-18	Month 16	5/19/95	0.8	ns	ns	ns	ns	ns	
GP-18	Month 17	6/9/95	0.6	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-18	Quarter 6	7/19/95	0.3	071909	<0.1	<0.2	1.6	2	
GP-18	Month 19	8/21/95	0.6	ns	ns	ns	ns	ns	
GP-18	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 7	10/18/95	0.2	101808	<0.4	<0.4	1.6	2	
GP-18	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GP-18	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GP-18	Quarter 8	1/22/96	0.1	012204	<0.1	<0.2	<0.5	<1	
GP-18	Month 25	2/19/96	0.6	ns	ns	ns	ns	ns	
GP-18	Month 26	3/27/96	0.5	ns	ns	ns	ns	ns	
GP-18	Quarter 9	4/22/96	0.1	042203	<0.1	<0.2	<0.5	<1	
GP-18	Month 28	5/22/96	0.7	ns	ns	ns	ns	ns	
GP-18	Month 29	6/28/96	1.4	ns	ns	ns	ns	ns	
GP-18	Quarter 10	7/30/96	0.6	073003	<0.1	<0.2	0.8	1	
GP-18	Month 31	8/28/96	0.4	ns	ns	ns	ns	ns	
GP-18	Month 32	9/19/96	0.2	ns	ns	ns	ns	ns	
GP-18	Quarter 11	10/22/96	0.0	102203	<0.1	<0.2	0.7	1	
GP-18	Month 34	11/21/96	0.2	ns	ns	ns	ns	ns	
GP-18	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 12	1/22/97	0.0	012203	<0.1	<0.2	<0.5	<1	
GP-18	Month 37	3/11/97	0.0	ns	ns	ns	ns	ns	
GP-18	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 13	4/22/97	0.1	042204	<0.1	<0.2	0.4	1	
GP-18	Month 40	5/28/97	0.3	ns	ns	ns	ns	ns	
GP-18	Month 41	6/26/97	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 14	7/24/97	0.0	072403	<0.1	<0.2	1.1	2	
GP-18	Month 43	9/9/97	0.1	ns	ns	ns	ns	ns	
GP-18	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 15	10/14/97	0.0	101403	<0.1	<0.2	<0.5	<1	
GP-18	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GP-18	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 16	1/22/98	0.0	012203	<0.1	<0.2	<0.5	<1	
GP-18	Month 49	2/24/98	11.4	ns	ns	ns	ns	ns	
GP-18	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 17	4/9/98	0.0	040903	<0.1	<0.2	<0.5	<1	
GP-18	Month 52	5/22/98	0.1	ns	ns	ns	ns	ns	
GP-18	Month 53	6/15/98	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 18	7/30/98	0.0	073003	<0.1	<0.2	<0.5	<1	
GP-18	Month 55	8/25/98	0.1	ns	ns	ns	ns	ns	
GP-18	Month 56	9/21/98	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 19	10/28/98	0.0	102803	<0.1	<0.2	<0.5	<1	
GP-18	Month 58	11/23/98	0.4	ns	ns	ns	ns	ns	
GP-18	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 20	1/21/99	0.0	012103	<0.1	<0.2	<0.5	<1	
GP-18	Month 61	2/25/99	0.2	ns	ns	ns	ns	ns	
GP-18	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 21	4/22/99	0.0	042203	<0.1	<0.2	<0.5	<1	

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**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-18	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GP-18	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 22	7/28/99	0.0	072803	<0.1	<0.2	<0.5	<1	
GP-18	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GP-18	Month 68	9/13/99	0.1	ns	ns	ns	ns	ns	
GP-18	Quarter 23	10/6/99	0.0	100604	<0.1	<0.2	<0.5	<1	
GP-18	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	
GP-18	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 24	1/18/00	0.0	011804	<0.1	<0.2	<0.5	<1	
GP-18	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GP-18	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 25	4/18/00	0.0	041803	<0.1	<0.2	<0.5	<1	
GP-18	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	
GP-18	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 26	7/26/00	0.0	072604	<0.1	<0.2	<0.5	<1	
GP-18	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	
GP-18	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GP-18	Quarter 27	10/24/00	0.0	102404	<0.1	<0.2	<0.5	<1	
GP-18	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GP-18	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	
GP-19	PreStartUp	12/30/93	7.2	123020	<0.1	<0.2	4.8	5	
GP-19	Week 1	1/13/94	15.4	011304	<0.9	<0.2	<2.8	<4	S
GP-19	Week 2	1/20/94	1.4	012006	<0.1	<0.2	<0.5	<1	S
GP-19	Week 3	1/26/94	1.4	012614	<0.1	<0.2	<0.5	<1	S
GP-19	Month 1	2/9/94	1.2	020908	<0.1	<0.2	<0.5	<1	S
GP-19	Month 2	3/9/94	1.1	030919	<0.1	0.3	2.0	2	S
GP-19	Month 2	3/10/94	1.2	031003	<0.1	1.3	5.3	7	S
GP-19	Quarter 1	4/12/94	4.6	041211	<0.1	<0.2	<0.5	<1	S
GP-19	Month 4	5/12/94	12.8	ns	ns	ns	ns	ns	
GP-19	Month 5	6/9/94	0.3	ns	ns	ns	ns	ns	
GP-19	Quarter 2	8/11/94	0.6	081112	<0.4	<0.4	0.5	1	S
GP-19	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GP-19	Month 8	9/30/94	*0.2	ns	ns	ns	ns	ns	
GP-19	Quarter 3	10/21/94	*6.6	102111	<0.9	<1.0	1.1	1	S
GP-19	Month 10	11/23/94	6.2	ns	ns	ns	ns	ns	
GP-19	Month 11	12/13/94	0.6	ns	ns	ns	ns	ns	
GP-19	Quarter 4	1/12/95	4.5	011207	<0.2	0.6	0.9	GRO present	S,G
GP-19	Month 13	2/8/95	1.2	ns	ns	ns	ns	ns	
GP-19	Month 14	3/15/95	28.0	ns	ns	ns	ns	ns	
GP-19	Quarter 5	4/7/95	0.5	040715	<0.1	<0.2	1.4	2	S
GP-19	Month 16	5/19/95	49.0	ns	ns	ns	ns	ns	
GP-19	Month 17	6/9/95	1.6	ns	ns	ns	ns	ns	
GP-19	Quarter 6	7/19/95	1.3	071911	<0.1	<0.2	<0.5	7	
GP-19	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GP-19	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE</i> (ug/l)	<i>TCE</i> (ug/l)	<i>Perc</i> (ug/l)	<i>Total VOCs</i> (ug/l)	<i>Foot</i> <i>Notes</i>
GP-19	Quarter7	10/18/95	0.2	101809	<0.4	<0.4	1.6	2	
GP-19	Month 22	11/21/95	8.0	ns	ns	ns	ns	ns	
GP-19	Month 23	1/11/96	6.6	ns	ns	ns	ns	ns	
GP-19	Quarter 8	1/22/96	0.7	012205	<0.1	1.0	3.0	GRO present	G
GP-19	Month 25	2/19/96	13.0	ns	ns	ns	ns	ns	
GP-19	Month 26	3/27/96	3.2	ns	ns	ns	ns	ns	
GP-19	Quarter 9	4/22/96	0.3	042204	<0.1	<0.2	<0.5	<1	
GP-19	Month 28	5/22/96	28.9	ns	ns	ns	ns	ns	
GP-19	Month 29	6/28/96	4.2	ns	ns	ns	ns	ns	
GP-19	Quarter 10	7/30/96	2.5	073004	<0.1	<0.2	1.0	3	
GP-19	Month 31	8/28/96	0.4	ns	ns	ns	ns	ns	
GP-19	Month 32	9/19/96	4.4	ns	ns	ns	ns	ns	
GP-19	Quarter 11	10/22/96	0.1	102204	<0.1	<0.2	1.3	3	
GP-19	Month 34	11/21/96	0.4	ns	ns	ns	ns	ns	
GP-19	Month 35	12/27/96	0.8	ns	ns	ns	ns	ns	
GP-19	Quarter 12	1/22/97	4.8	012204	<0.1	<0.2	21.4	29	
GP-19	Month 37	3/11/97	16.3	ns	ns	ns	ns	ns	
GP-19	Month 38	3/21/97	0.2	ns	ns	ns	ns	ns	
GP-19	Quarter 13	4/22/97	0.6	042205	<0.1	<0.2	0.5	1	GRO present
GP-19	Month 40	5/28/97	1.9	ns	ns	ns	ns	ns	
GP-19	Month 41	6/26/97	0.7	ns	ns	ns	ns	ns	
GP-19	Quarter 14	7/24/97	0.0	072404	3.0	1.0	3.1	8	GRO present
GP-19	Month 43	9/9/97	0.2	ns	ns	ns	ns	ns	
GP-19	Month 44	9/23/97	0.0	ns	ns	ns	ns	ns	
GP-19	Quarter 15	10/14/97	0.0	101404	<0.1	<0.2	0.9	GRO pres. 68	damaged well
GP-19	Month 46	11/19/97	0.4	ns	ns	ns	ns	ns	
GP-19	Month 47	12/23/97	0.1	ns	ns	ns	ns	ns	
GP-19	Quarter 16	1/22/98	0.2	012204	<0.1	<0.2	1.0	1	
GP-19	Month 49	2/24/98	150.0	ns	ns	ns	ns	ns	
GP-19	Month 50	3/25/98	0.1	ns	ns	ns	ns	ns	
GP-19	Quarter 17	4/9/98	0.0	040904	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Month 53	6/15/98	5.8	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 18	7/30/98	0.0	073004	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 55	8/25/98	0.8	ns	ns	ns	ns	ns	damaged well
GP-19	Month 56	9/21/98	0.2	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 19	10/28/98	0.0	102804	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 58	11/23/98	0.3	ns	ns	ns	ns	ns	damaged well
GP-19	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 20	1/21/99	0.0	012104	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 61	2/25/99	0.2	ns	ns	ns	ns	ns	damaged well
GP-19	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 21	4/22/99	0.0	042204	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	damaged well
GP-19	Month 65	6/18/99	0.2	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 22	7/28/99	0.1	072804	<0.1	<0.2	<0.5	<1	damaged well

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-19	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Month 68	9/13/99	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 23	10/6/99	0.0	100605	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 24	1/18/00	0.0	011805	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 25	4/18/00	0.0	041804	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	damaged well
GP-19	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 26	7/26/00	0.0	072605	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 79	8/16/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Quarter 27	10/24/00	0.0	102405	<0.1	<0.2	<0.5	<1	damaged well
GP-19	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-19	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	damaged well
GP-20	PreStartUp	12/30/93	0.3	123018	<0.1	<0.2	2.9	3	
GP-20	Week 1	1/12/94	1.2	011219	<0.1	<0.2	<0.5	<1	S
GP-20	Week 2	1/20/94	0.4	012007	<0.1	<0.2	<0.5	<1	S
GP-20	Week 3	1/26/94	1.1	012615	<0.1	<0.2	<0.5	<1	S
GP-20	Month 1	2/9/94	0.6	020909	<0.1	<0.2	<0.5	<1	S
GP-20	Month 2	3/9/94	1.2	030920	<0.1	<0.2	<0.5	<1	S
GP-20	Quarter 1	4/12/94	1.2	041210	<0.1	<0.2	<0.5	<1	S
GP-20	Month 4	5/12/94	2.6	ns	ns	ns	ns	ns	
GP-20	Month 5	6/8/94	0.9	ns	ns	ns	ns	ns	
GP-20	Quarter 2	8/11/94	0.6	081115	<0.4	<1.9	>15.5	>15	S
GP-20	Month 7	8/30/94	0.2	ns	ns	ns	ns	ns	
GP-20	Month 8	9/30/94	*0.7	ns	ns	ns	ns	ns	
GP-20	Quarter 3	10/20/94	*0.8	102009	<0.9	<1.0	<1.0	<3	S
GP-20	Month 10	11/23/94	0.2	ns	ns	ns	ns	ns	
GP-20	Month 11	12/13/94	0.2	ns	ns	ns	ns	ns	
GP-20	Quarter 4	1/12/95	0.3	011206	<0.2	<0.2	<0.3	<1	S
GP-20	Month 13	2/8/95	0.4	ns	ns	ns	ns	ns	
GP-20	Month 14	3/15/95	0.5	ns	ns	ns	ns	ns	
GP-20	Quarter 5	4/7/95	0.3	040716	<0.1	<0.2	1.4	2	S
GP-20	Month 16	5/19/95	0.7	ns	ns	ns	ns	ns	
GP-20	Month 17	6/9/95	0.5	ns	ns	ns	ns	ns	
GP-20	Quarter 6	7/19/95	0.2	071912	<0.1	<0.2	<0.5	<1	
GP-20	Month 19	8/21/95	0.2	ns	ns	ns	ns	ns	
GP-20	Month 20	9/21/95	0.1	ns	ns	ns	ns	ns	
GP-20	Quarter 7	10/18/95	0.1	101810	<0.4	<0.4	<0.5	<2	
GP-20	Month 22	11/21/95	0.0	ns	ns	ns	ns	ns	
GP-20	Month 23	1/11/96	0.2	ns	ns	ns	ns	ns	
GP-20	Quarter 8	1/22/96	0.0	012206	<0.1	<0.2	<0.5	<1	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-20	Month 25	2/19/96	0.7	ns	ns	ns	ns	ns	
GP-20	Month 26	3/27/96	0.5	ns	ns	ns	ns	ns	
GP-20	Quarter 9	4/22/96	0.0	042205	<0.1	<0.2	<0.5	<1	
GP-20	Month 28	5/22/96	0.0	ns	ns	ns	ns	ns	
GP-20	Month 29	6/28/96	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 10	7/30/96	0.0	073005	<0.1	<0.2	<0.5	<1	
GP-20	Month 31	8/28/96	0.0	ns	ns	ns	ns	ns	
GP-20	Month 32	9/19/96	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 11	10/22/96	0.0	102205	<0.1	<0.2	<0.5	<1	
GP-20	Month 34	11/21/96	0.0	ns	ns	ns	ns	ns	
GP-20	Month 35	12/27/96	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 12	1/22/97	0.0	012205	<0.1	<0.2	<0.5	<1	
GP-20	Month 37	3/11/97	0.1	ns	ns	ns	ns	ns	
GP-20	Month 38	3/21/97	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 13	4/22/97	0.1	042206	<0.1	<0.2	<0.5	<1	
GP-20	Month 40	5/28/97	0.1	ns	ns	ns	ns	ns	
GP-20	Month 41	6/26/97	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 14	7/24/97	0.0	072405	<0.1	<0.2	<0.5	<1	
GP-20	Month 43	9/9/97	0.0	ns	ns	ns	ns	ns	
GP-20	Month 44	9/23/97	0.2	ns	ns	ns	ns	ns	
GP-20	Quarter 15	10/14/97	0.0	101405	<0.1	<0.2	<0.5	<1	
GP-20	Month 46	11/19/97	0.1	ns	ns	ns	ns	ns	
GP-20	Month 47	12/23/97	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 16	1/22/98	0.0	012205	<0.1	<0.2	<0.5	<1	
GP-20	Month 49	2/24/98	0.0	ns	ns	ns	ns	ns	
GP-20	Month 50	3/25/98	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 17	4/9/98	0.0	040905	<0.1	<0.2	<0.5	<1	
GP-20	Month 52	5/22/98	0.0	ns	ns	ns	ns	ns	
GP-20	Month 53	6/15/98	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 18	7/30/98	0.0	073005	<0.1	<0.2	<0.5	<1	
GP-20	Month 55	8/25/98	0.9	ns	ns	ns	ns	ns	
GP-20	Month 56	9/21/98	0.1	ns	ns	ns	ns	ns	
GP-20	Quarter 19	10/28/98	0.1	102805	<0.1	<0.2	<0.5	<1	
GP-20	Month 58	11/23/98	0.4	ns	ns	ns	ns	ns	
GP-20	Month 59	12/23/98	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 20	1/21/99	0.0	012105	<0.1	<0.2	<0.5	<1	
GP-20	Month 61	2/25/99	0.1	ns	ns	ns	ns	ns	
GP-20	Month 62	3/23/99	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 21	4/22/99	0.1	042205	<0.1	<0.2	<0.5	<1	
GP-20	Month 64	5/21/99	0.1	ns	ns	ns	ns	ns	
GP-20	Month 65	6/18/99	0.1	ns	ns	ns	ns	ns	
GP-20	Quarter 22	7/28/99	0.0	072805	<0.1	<0.2	<0.5	<1	
GP-20	Month 67	8/27/99	0.0	ns	ns	ns	ns	ns	
GP-20	Month 68	9/13/99	0.6	ns	ns	ns	ns	ns	
GP-20	Quarter 23	10/6/99	0.0	100606	<0.1	<0.2	<0.5	<1	
GP-20	Month 70	11/17/99	0.0	ns	ns	ns	ns	ns	

**SCREENING RESULTS - SOIL GAS PROBES @ WAUSAU CHEMICAL
WAUSAU WATER SUPPLY NPL SITE**

<i>Sample</i>	<i>Period</i>	<i>Date</i>	<i>hnu</i>	<i>Run</i>	<i>c12DCE (ug/l)</i>	<i>TCE (ug/l)</i>	<i>Perc (ug/l)</i>	<i>Total VOCs (ug/l)</i>	<i>Foot Notes</i>
GP-20	Month 71	12/17/99	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 24	1/18/00	0.0	011806	<0.1	<0.2	<0.5	<1	
GP-20	Month 73	2/14/00	0.0	ns	ns	ns	ns	ns	
GP-20	Month 74	3/10/00	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 25	4/18/00	0.0	041805	<0.1	<0.2	<0.5	<1	
GP-20	Month 76	5/24/00	0.1	ns	ns	ns	ns	ns	
GP-20	Month 77	6/19/00	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 26	7/26/00	0.2	072606	<0.1	<0.2	<0.5	<1	
GP-20	Month 79	8/16/00	0.2	ns	ns	ns	ns	ns	
GP-20	Month 80	9/25/00	0.0	ns	ns	ns	ns	ns	
GP-20	Quarter 27	10/24/00	0.0	102406	<0.1	<0.2	<0.5	<1	
GP-20	Month 82	11/22/00	0.0	ns	ns	ns	ns	ns	
GP-20	Month 83	12/28/00	0.0	ns	ns	ns	ns	ns	

NOTE:

The following compounds (with their respective detection limits) were included in the standard VOC calibration and were analyzed for: 11 DCE (0.2 ug/l), t12DCE (0.2 ug/l), 11DCA (2.4 ug/l), c12DCE (0.1 ug/l), 111TCA (3.0 ug/l), Benzene (0.2 ug/l), 12DCA (3.0 ug/l), TCE (0.2 ug/l), Toluene (0.2 ug/l), 112TCA (3.0 ug/l), Perc (0.5 ug/l), Chlorobenzene (0.4 ug/l), Ethylbenzene (0.4 ug/l), m&p Xylene (0.4 ug/l), o Xylene (0.5 ug/l), 1122TCA (3.0 ug/l), 13DCB (1.2 ug/l), 14DCB (1.2 ug/l), 12DCB (1.2 ug/l)

Only those compounds detected are reported above.

Unknown peaks, if present, are foot noted as described below.

Although Acetone was not in the calibration mixture, the presence of Acetone (in sufficient quantity) would have shown up as a peak eluting at the same time as 11DCE and would have probably been reported as 11DCE.

*hnu reading by 11.7 eV lamp. All others by 10.2 eV lamp.

FOOT NOTES:

S = Unidentified peaks present, believed to be associated with Siliton caulk used to seal the soil probe caps (after the pre-start up round of analysis). The magnitude of these peaks tended to diminish with time. By the fifth or sixth quarter, very little if any was observed.

1 = 11DCE detected @ 0.37 ug/l

2 = t12DCE detected @ 0.82 ug/l

** = HNU field PID meter malfunctioned on 4/23/97. PID field readings taken on 4/25/97 after blower turned back on.

APPENDIX D

MONITORING WELL ABANDONMENT FORMS

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location GM1S	County Marathon	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. ; T. N; R. E W		Present Well Owner Wausau Water Supply	
(If Applicable) Gov't Lot Grid Number		Street or Route	
Grid Location ft. N. S. ft. E. W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) GM1S	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/24/00	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) 31.1	
Original Well/Drillhole/Borehole Construction Completed On (Date)		Pump & Piping Removed? Yes No Not Applicable	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole		Liner(s) Removed? Yes No Not Applicable	
Construction Report Available? ☒ Yes ☐ No		Screen Removed? Yes No Not Applicable	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Casing Left in Place? ☒ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		If No, Explain	
Total Well Depth (ft) Casing Diameter (in.) 2.00		Was Casing Cut Off Below Surface? ☒ Yes ☐ No	
(From ground surface) Casing Depth (ft.)		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Lower Drillhole Diameter (in.)		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
If Yes, To What Depth? Feet		(5) Required Method of Placing Sealing Material	
		☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped	
		☐ Dump Bailer ☐ Other (Explain)	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only	
		☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite	
		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite-Cement Grout	

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
	Natural	Surface	1.0	
	Bentonite Chips	1.0	37.3	2 Bags

(8) Comments		(9) Name of Person or Firm Doing Sealing Work	
		Boat Longyear	
		Signature of Person Doing Work	
		Date Signed 11/1/00	
		Street or Route	
		Telephone Number (715)359-7090	
		City, State, Zip Code	
		Schofield, WI 54476	
		(10) FOR DNR OR COUNTY USE ONLY	
		Date Received/Inspected	
		District/County	
		Reviewer/Inspector	
		☐ Complying Work ☐ Noncomplying Work	
		Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location GM4S	County Marathon	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. ; T. N; R. ☐ E ☐ W (If Applicable)		Present Well Owner Wausau Water Supply	
Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) GM4S	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/25/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date)		(4) Depth to Water (Feet) 30.1	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☐ Granular Bentonite ☐ Concrete ☐ Bentonite-Sand Slurry ☐ Clay-Sand Slurry ☒ Chipped Bentonite ☐ Bentonite-Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	36.8	2 Bags

(8) Comments

(9) Name of Person or Firm Doing Sealing Work Boart Longyear	
Signature of Person Doing Work	Date Signed 11/1/00
Street or Route 101 Alderson St.	Telephone Number (715)359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location MW3B	County Marathon	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. ; T. N; R. ☐ E ☐ W		Present Well Owner Wausau Water Supply	
(If Applicable) Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) MW3B	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/24/00	

(3) Original Well/Drillhole/Borehole Construction Completed On (Date)		(4) Depth to Water (Feet) 38.0	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe - Gravity ☒ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) 75.0 Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft) 75.0	Lower Drillhole Diameter (in.)	(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☐ Granular Bentonite ☐ Concrete ☒ Bentonite-Cement Grout ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet			

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	0.5	
Bentonite Cement Grout	0.5	75.0	12 Gal

(8) Comments

(9) Name of Person or Firm Doing Sealing Work Boart Longyear		FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work	Date Signed 2-6-01	Date Received/Inspected	District/County
Street or Route 101 Alderson St.	Telephone Number (715)359-7090	Reviewed/Inspector	☐ Complying Work ☐ Noncomplying Work
City, State, Zip Code Schofield, WI 54476		Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location MW4C	County Marathon	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. ; T. N; R. ☐ E ☐ W		Present Well Owner Wausau Water Supply	
(If Applicable) Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) MW4C	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/25/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date)		(4) Depth to Water (Feet) 32.2	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☐ Granular Bentonite ☐ Concrete ☐ Bentonite-Cement Grout ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	40.3	2 Bags

(8) Comments

(9) Name of Person or Firm Doing Sealing Work

Boart Longyear

Signature of Person Doing Work

Date Signed

Street or Route

Telephone Number

101 Alderson St.

(715)359-7090

City, State, Zip Code

Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

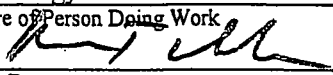
(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location W51A	County Marathon	Original Well Owner (If Known)	
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W (If Applicable)		Present Well Owner Wausau Water Supply	
____ Gov't Lot ____ Grid Number		Street or Route	
Grid Location ____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) W51A	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/24/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____		(4) Depth to Water (Feet) 30.2	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain _____	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify) _____		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft) _____ Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) _____	Lower Drillhole Diameter (in.) _____	(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☐ Granular Bentonite ☐ Concrete ☐ Bentonite-Cement Grout ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet			

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Natural	Surface	1.0		
Bentonite Chips	1.0	47.0	2 Bags	

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work Boart Longyear		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work 	Date Signed 11/1/00	Date Received/Inspected	District/County
Street or Route 101 Alderson St.	Telephone Number (715)359-7090	Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
City, State, Zip Code Schofield, WI 54476		Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location W56A	County Marathon	Original Well Owner (If Known)	
☐ E ☐ W 1/4 of 1/4 of Sec. ; T. N; R.		Present Well Owner Wausau Water Supply	
Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) W56A	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/25/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date)		(4) Depth to Water (Feet) 11.4	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		(6) Sealing Materials ☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite For monitoring wells and monitoring well boreholes only: ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite-Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	22.9	1 Bag

(8) Comments

(9) Name of Person or Firm Doing Sealing Work Boart Longyear	
Signature of Person Doing Work	Date Signed
Street or Route 101 Alderson St.	Telephone Number (715)359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

1) GENERAL INFORMATION

Well/Drillhole/Borehole Location	County
R1S	Marathon
1/4 of 1/4 of Sec. ; T. N; R. E W	
(If Applicable)	
Gov't Lot	Grid Number
Grid Location	
ft. N. S. ft. E. W.	
Civil Town Name	
Street Address of Well	
City, Village	
Wausau	

2) FACILITY NAME Wausau Water Supply Location	
Original Well Owner (If Known)	
Present Well Owner	
Wausau Water Supply	
Street or Route	
City, State, Zip Code	
Wausau WI	
Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
R1S	
Reason For Abandonment	
Date of Abandonment	
10/24/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

3) Original Well/Drillhole/Borehole Construction Completed On (Date)	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	
Total Well Depth (ft) (From ground surface)	Casing Diameter (in.) 2.00 Casing Depth (ft.)
Lower Drillhole Diameter (in.)	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet	

4) Depth to Water (Feet) 35.9	
Pump & Piping Removed?	☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed?	☐ Yes ☐ No ☒ Not Applicable
Screen Removed?	☐ Yes ☒ No ☐ Not Applicable
Casing Left in Place?	☒ Yes ☐ No
If No, Explain	
Was Casing Cut Off Below Surface? ☒ Yes ☐ No	
Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Did Material Settle After 24 Hours? ☐ Yes ☒ No	
If Yes, Was Hole Retopped? ☐ Yes ☐ No	
5) Required Method of Placing Sealing Material	
☒ Conductor Pipe - Gravity	☐ Conductor Pipe - Pumped
☐ Dump Bailer	☐ Other (Explain)
6) Sealing Materials	
☐ Neat Cement Grout	For monitoring wells and monitoring well boreholes only
☐ Sand-Cement (Concrete) Grout	
☐ Concrete	☐ Bentonite Pellets
☐ Clay-Sand Slurry	☐ Granular Bentonite
☐ Bentonite-Sand Slurry	☐ Bentonite-Cement Grout
☒ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Natural	Surface	1.0		
Bentonite Chips	1.0	44.6	2 Bags	

(8) Comments

9) Name of Person or Firm Doing Sealing Work	
Boart Longyear	
Signature of Person Doing Work	Date Signed
	11/11/00
Street or Route	Telephone Number
101 Alderson St.	(715)359-7090
City, State, Zip Code	
Schofield, WI 54476	

10) FOR DNR/COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work
Follow-up Necessary	☐ Noncomplying Work

Well abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location E21A	County Marathon	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. ; T. N; R. ☐ E ☐ W		Present Well Owner Wausau Water Supply	
(If Applicable) Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) E21A	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/24/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date)		(4) Depth to Water (Feet) 11.4	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☐ Granular Bentonite ☐ Concrete ☐ Bentonite-Cement Grout ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	24.2	1 Bag

(8) Comments	
(9) Name of Person or Firm Doing Sealing Work Boart Longyear	
Signature of Person Doing Work	Date Signed 11/1/00
Street or Route 101 Alderson St.	Telephone Number (715)359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR/COUNTY USE ONLY	
Date Received/Inspected	Date of Completion
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

1) GENERAL INFORMATION

Well/Drillhole/Borehole Location WC2	County Marathon
☐ E ☐ W 1/4 of 1/4 of Sec. ; T. N; R. (If Applicable) Gov't Lot Grid Number Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W. Civil Town Name Street Address of Well City, Village Wausau	

2) FACILITY NAME Wausau Water Supply Location	
Original Well Owner (If Known)	
Present Well Owner Wausau Water Supply	
Street or Route	
City, State, Zip Code Wausau WI	
Facility Well No. and/or Name (If Applicable) WC2	WI Unique Well No.
Reason For Abandonment	
Date of Abandonment 10/24/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

3) Original Well/Drillhole/Borehole Construction Completed On (Date)	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	
Total Well Depth (ft) (From ground surface)	Casing Diameter (in.) 2.00 Casing Depth (ft.)
Lower Drillhole Diameter (in.)	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet	

4) Depth to Water (Feet)	
Pump & Piping Removed?	☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed?	☐ Yes ☐ No ☒ Not Applicable
Screen Removed?	☐ Yes ☒ No ☐ Not Applicable
Casing Left in Place?	☒ Yes ☐ No
If No, Explain	
Was Casing Cut Off Below Surface? ☒ Yes ☐ No	
Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Did Material Settle After 24 Hours? ☐ Yes ☒ No	
If Yes, Was Hole Retopped? ☐ Yes ☐ No	
5) Required Method of Placing Sealing Material	
☒ Conductor Pipe - Gravity	☐ Conductor Pipe - Pumped
☐ Dump Bailer	☐ Other (Explain)
6) Sealing Materials	
For monitoring wells and monitoring well boreholes only	
☐ Neat Cement Grout	☐ Bentonite Pellets
☐ Sand-Cement (Concrete) Grout	☐ Granular Bentonite
☐ Concrete	☐ Bentonite-Cement Grout
☐ Clay-Sand Slurry	
☐ Bentonite-Sand Slurry	
☒ Chipped Bentonite	

7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	25.2	1 Bag

8) Comments

9) Name of Person or Firm Doing Sealing Work

Boart Longyear	
Signature of Person Doing Work	Date Signed
	11/1/00
Street or Route	Telephone Number
101 Alderson St.	(715)359-7090
City, State, Zip Code	
Schofield, WI 54476	

10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow Up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location WC3A	County Marathon	Original Well Owner (If Known)	
☐ E ☐ W 1/4 of 1/4 of Sec. ; T. N; R.		Present Well Owner Wausau Water Supply	
Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) WC3A	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/25/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date)		(4) Depth to Water (Feet) 11.3	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe - Gravity ☒ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☒ Granular Bentonite ☐ Concrete ☐ Bentonite-Cement Grout ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Granular Bentonite	1.0	66.3	2.5 Gal

(8) Comments

(9) Name of Person or Firm Doing Sealing Work Boart Longyear	
Signature of Person Doing Work	Date Signed 11/1/00
Street or Route 101 Alderson St.	Telephone Number (715)359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

1) GENERAL INFORMATION		2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location WC3C	County Marathon	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. ; T. N; R. ☐ E ☐ W (If Applicable)		Present Well Owner Wausau Water Supply	
Gov't Lot Grid Number		Street or Route	
Grid Location ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) WC3C	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/25/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

3) Original Well/Drillhole/Borehole Construction Completed On (Date)		4) Depth to Water (Feet) 12.2	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft) Casing Diameter (in.) 2.00 (From ground surface) Casing Depth (ft.) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		6) Sealing Materials ☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite For monitoring wells and monitoring well boreholes only: ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite-Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	29.2	1.5 Bags

7) Comments

9) Name of Person or Firm Doing Sealing Work Boart Longyear	
Signature of Person Doing Work	Date Signed 11/1/00
Street or Route 101 Alderson St.	Telephone Number (715)359-7090
City, State, Zip Code Schofield, WI 54476	

10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Wausau Water Supply Location	
Well/Drillhole/Borehole Location WC7A	County Marathon	Original Well Owner (If Known)	
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W (If Applicable)		Present Well Owner Wausau Water Supply	
____ Gov't Lot ____ Grid Number		Street or Route	
Grid Location ____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.		City, State, Zip Code Wausau WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) WC7A	WI Unique Well No.
Street Address of Well		Reason For Abandonment	
City, Village Wausau		Date of Abandonment 10/25/00	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____		(4) Depth to Water (Feet) 10.6	
☐ Monitoring Well ☐ Water Well ☒ Drillhole ☐ Borehole	Construction Report Available? * ☒ Yes ☐ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☒ No ☐ Not Applicable Casing Left in Place? ☒ Yes ☐ No If No, Explain _____	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify) _____		Was Casing Cut Off Below Surface? ☒ Yes ☐ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft) 20.9 (From ground surface)	Casing Diameter (in.) 2.00 Casing Depth (ft.) 20.9	(6) Sealing Materials ☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☒ Chipped Bentonite	
Lower Drillhole Diameter (in.) _____	Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet	For monitoring wells and monitoring well boreholes only ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite-Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Natural	Surface	1.0	
Bentonite Chips	1.0	20.9	4 Bags

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work

Boart Longyear

Signature of Person Doing Work

Date Signed

2-16-01

Street or Route

Telephone Number

101 Alderson St.

(715)359-7090

City, State, Zip Code

Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	Date/Checked
Reviewed/Inspected	☐ Compliance Work ☐ None of the Work
Follow-up Necessary	