



330 South 4th Avenue
Park Falls, WI 54552
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January 21, 2000
(ECL04-0407-0305)

1/25/00

Ms. Janet Kazda
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhineland, Wisconsin 54501

RE: Tetrachloroethylene Contamination at Eagle Cleaners, 204 Second Street, Eagle River, Wisconsin

Dear Ms. Kazda:

This letter is to notify the Wisconsin Department of Natural Resources (WDNR) of tetrachloroethylene discovered at Eagle Cleaners, 204 Second Street, Eagle River, Wisconsin (Site). After receiving a letter dated September 28, 1999 from the WDNR identifying the Site as a possible source of tetrachloroethylene, Lawrence Favorite contracted Northern Environmental Technologies Incorporated (Northern Environmental) to perform a site screening.

Laboratory analysis of ground water samples collected from the Site show ground water contaminated with tetrachloroethylene at the Site. Laboratory analysis of soil samples collected from the Site did not detect tetrachloroethylene contamination. Laboratory analysis and a Site map are enclosed.

Laboratory analyses of the ground water samples collected across the Site show similar levels of tetrachloroethylene. The similar levels and no soil contamination detected, indicate Eagle Cleaners may not be the source of the contamination. In a January 18, 2000 phone conversation between Mr. Jim Kralick of the WDNR and Steven Schenden of Northern Environmental, Mr. Kralick indicated that the up gradient well may be too close to the possible source of the release to show the contamination is from an offsite source. Mr. Kralick would like to see a ground-water sample collected from further up gradient to confirm the contamination is from an offsite source.

As part of the site screening, Northern Environmental is completing a historical records search of the area to identify any other possible sources of the tetrachloroethylene contamination. Northern environmental will further investigate ground water to the southeast (the presumed hydraulically up gradient direction). Complete results of the site screening should be available in five to six weeks and will be sent to the WDNR. Northern Environmental is requesting Lawrence Favorite not be named the responsible party for the tetrachloroethylene contamination in Eagle River until the final results of the site screening are available.

Northern Environmental believes the information contained meets the needs of the WDNR at this time. Please feel free to contact Steven J. Schenden at (715) 762-1544 if you have any questions.

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Sincerely,

**Northern Environmental
Technologies, Incorporated**



Steven J. Schenden
Project Engineer



Timothy J. McCormick
District Director

enclosures

c: Lawrence Favorite (Eagle Cleaners)

Northern Environmental SM Hydrologists • Engineers • Geologists	Prepared By: SJS	Date: 1/21/00	Page: 1 of 1
	Reviewed By:	Date:	
Client: Eagle Cleaners	Site Map		
Project No. ECL 04-0407-0305			

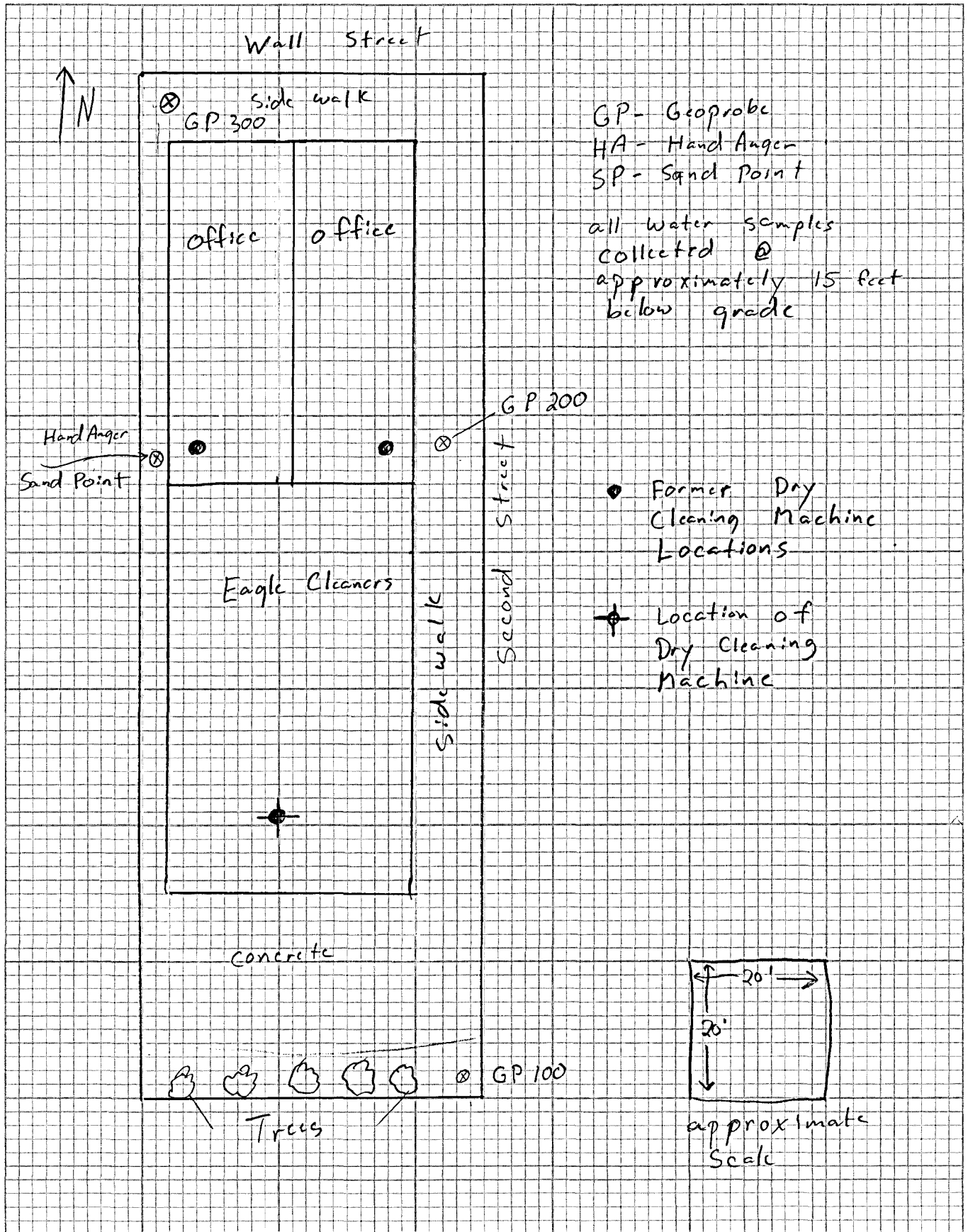


Table 3, Ground-Water Analytical Results, Eagle Cleaners, Eagle River, Wisconsin

Well ID	Date Sampled	QC Hold Time Met	Relevant and Significant Analytical Results (µg/l)				
			VOCs				
			Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene
WDNR Preventive Action Limit (PAL) (µg/l)			0.6	7	0.5	68.6	0.5
WDNR Enforcement Standard (ES) (µg/l)			6	70	5	343	5
GP100	12/20/99	Yes	<0.4	<0.32	130	<0.35	<0.48
GP200	12/20/99	Yes	<0.4	1.7	110	<0.35	2.1
GP300	12/20/99	Yes	<0.4	<0.32	120	<0.35	0.54"J"
SP400	12/20/99	Yes	0.62"J"	<0.32	87	<0.35	0.55"J"

Note:

VOCs = Volatile Organic Compounds

ug/l = micrograms per liter

0.54"J" = WDNR Preventive Action Limit Exceeded

130 = WDNR Enforcement Standard Exceeded

<x = not detected above laboratory limit of x

"J" = Analyte detected between laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ)

GP = Geoprobe water sample

SP = Sand point water sample

Table 2, Soil Analytical Results, Eagle Cleaners, Eagle River, Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	Date Sampled	QC Hold Time Met	Relevant and Significant Analytical Results (µg/kg)				
					VOCs				
					Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene
WDNR Residual Contaminant Level (RCL)					0.6	7	0.5	68.6	0.5
GP100	S103	8-12	12/20/99	Yes	<25	<25	<25	<25	<25
GP200	S202	4-8	12/20/99	Yes	<25	<25	<25	<25	<25
GP300	S304	12-16	12/20/99	Yes	<25	<25	<25	<25	<25
HA	HA3	9	12/20/99	Yes	<25	<25	<25	28	<25

Note:

VOCs = Volatile Organic Compounds

µg/kg = micrograms per kilogram

 = WDNR Preventive Action Limit Exceeded

 = WDNR Enforcement Standard Exceeded

<x = not detected above laboratory limit of x

"J" = Analyte detected between laboratory
Limit of Detection (LOD) and Limit of Quantitation (LOQ)

GP = Geoprobe Boring

HA = Hand Auger

WDNR = Wisconsin Department of Natural Resources

U.S. Analytical Lab

BARB FLIETNER
 NORTHERN ENVIRONMENTAL
 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5028320A					Sample Type	Soil		
Sample ID	S103					Sample Date	12/20/99		

Inorganic

General

Solids Percent	95.0	%			1	12/23/99	5021	RMB	1
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Organic

VOC's

Benzene	< 25	ug/kg	5.9	20	1	12/29/99	8021A	MSV	1
Bromobenzene	< 25	ug/kg	3.1	10	1	12/29/99	8021A	MSV	1
Bromodichloromethane	< 25	ug/kg	2.7	8.9	1	12/29/99	8021A	MSV	1
tert-Butylbenzene	< 25	ug/kg	2.3	7.7	1	12/29/99	8021A	MSV	1
sec-Butylbenzene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1
n-Butylbenzene	< 25	ug/kg	2.5	8.4	1	12/29/99	8021A	MSV	1
Carbon Tetrachloride	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Chlorobenzene	< 25	ug/kg	2.5	8.2	1	12/29/99	8021A	MSV	1
Chloroethane	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
Chloroform	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
Chloromethane	< 25	ug/kg	7.3	24	1	12/29/99	8021A	MSV	1
2-Chlorotoluene	< 25	ug/kg	2.4	7.9	1	12/29/99	8021A	MSV	1
4-Chlorotoluene	< 25	ug/kg	2.3	7.8	1	12/29/99	8021A	MSV	1
2,2-DCP, cis-1,2-Dichloroethene	< 25	ug/kg	4.1	14	1	12/29/99	8021A	MSV	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	2.1	7.1	1	12/29/99	8021A	MSV	1
Dibromochloromethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
1,4-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
1,3-Dichlorobenzene	< 25	ug/kg	2.2	7.4	1	12/29/99	8021A	MSV	1
1,2-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Dichlorodifluoromethane	< 25	ug/kg	4.3	14	1	12/29/99	8021A	MSV	4
1,2-Dichloroethane	< 25	ug/kg	2.7	9.1	1	12/29/99	8021A	MSV	1
1,1-Dichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1-Dichloroethene	< 25	ug/kg	2.2	7.5	1	12/29/99	8021A	MSV	1
cis-1,2-Dichloroethene	< 25	ug/kg	2.8	9.3	1	12/29/99	8021A	MSV	1
trans-1,2-Dichloroethene	< 25	ug/kg	3.5	12	1	12/29/99	8021A	MSV	1
1,2-Dichloropropane	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3-Dichloropropane	< 25	ug/kg	2.2	7.3	1	12/29/99	8021A	MSV	1
Di-isopropyl ether	< 25	ug/kg	3.9	13	1	12/29/99	8021A	MSV	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	4.2	14	1	12/29/99	8021A	MSV	1
Ethylbenzene	< 25	ug/kg	6.2	11	1	12/29/99	8021A	MSV	1
Hexachlorobutadiene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1

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Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320A							Sample Type Soil		
Sample ID S103							Sample Date 12/20/99		
Isopropylbenzene	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
p-Isopropyltoluene	< 25	ug/kg	3.4	11	1	12/29/99	8021A	MSV	1
Methylene chloride	< 25	ug/kg	3.3	11	1	12/29/99	8021A	MSV	1
MTBE	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
Naphthalene	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
n-Propylbenzene	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	7.1	24	1	12/29/99	8021A	MSV	1
Tetrachloroethene	< 25	ug/kg	3.6	12	1	12/29/99	8021A	MSV	1
Toluene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,4-Trichlorobenzene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,3-Trichlorobenzene	< 25	ug/kg	5.4	18	1	12/29/99	8021A	MSV	1
1,1,1-Trichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1,2-Trichloroethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
Trichloroethene	< 25	ug/kg	4.6	15	1	12/29/99	8021A	MSV	1
Trichlorofluoromethane	< 25	ug/kg	19	65	1	12/29/99	8021A	MSV	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3.8	13	1	12/29/99	8021A	MSV	1
Vinyl Chloride	< 25	ug/kg	4.7	16	1	12/29/99	8021A	MSV	1
m&p-Xylene	< 50	ug/kg	5.6	19	1	12/29/99	8021A	MSV	1
o-Xylene	< 25	ug/kg	2.7	9	1	12/29/99	8021A	MSV	1

Lab Code 5028320B	Sample Type Soil
Sample ID S202	Sample Date 12/20/99

Inorganic

General

Solids Percent	92.5	%			1	12/23/99	5021	RMB	1
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Organic

VOC's

Benzene	< 25	ug/kg	5.9	20	1	12/29/99	8021A	MSV	1
Bromobenzene	< 25	ug/kg	3.1	10	1	12/29/99	8021A	MSV	1
Bromodichloromethane	< 25	ug/kg	2.7	8.9	1	12/29/99	8021A	MSV	1
tert-Butylbenzene	< 25	ug/kg	2.3	7.7	1	12/29/99	8021A	MSV	1
sec-Butylbenzene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1
n-Butylbenzene	< 25	ug/kg	2.5	8.4	1	12/29/99	8021A	MSV	1
Carbon Tetrachloride	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Chlorobenzene	< 25	ug/kg	2.5	8.2	1	12/29/99	8021A	MSV	1

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Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320B							Sample Type Soil		
Sample ID S202						Sample Date 12/20/99			
Chloroethane	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
Chloroform	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
Chloromethane	< 25	ug/kg	7.3	24	1	12/29/99	8021A	MSV	1
2-Chlorotoluene	< 25	ug/kg	2.4	7.9	1	12/29/99	8021A	MSV	1
4-Chlorotoluene	< 25	ug/kg	2.3	7.8	1	12/29/99	8021A	MSV	1
2,2-DCP, cis-1,2-Dichloroethene	< 25	ug/kg	4.1	14	1	12/29/99	8021A	MSV	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	2.1	7.1	1	12/29/99	8021A	MSV	1
Dibromochloromethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
1,4-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
1,3-Dichlorobenzene	< 25	ug/kg	2.2	7.4	1	12/29/99	8021A	MSV	1
1,2-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Dichlorodifluoromethane	< 25	ug/kg	4.3	14	1	12/29/99	8021A	MSV	4
1,2-Dichloroethane	< 25	ug/kg	2.7	9.1	1	12/29/99	8021A	MSV	1
1,1-Dichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1-Dichloroethene	< 25	ug/kg	2.2	7.5	1	12/29/99	8021A	MSV	1
cis-1,2-Dichloroethene	< 25	ug/kg	2.8	9.3	1	12/29/99	8021A	MSV	1
trans-1,2-Dichloroethene	< 25	ug/kg	3.5	12	1	12/29/99	8021A	MSV	1
1,2-Dichloropropane	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3-Dichloropropane	< 25	ug/kg	2.2	7.3	1	12/29/99	8021A	MSV	1
Di-isopropyl ether	< 25	ug/kg	3.9	13	1	12/29/99	8021A	MSV	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	4.2	14	1	12/29/99	8021A	MSV	1
Ethylbenzene	< 25	ug/kg	6.2	11	1	12/29/99	8021A	MSV	1
Hexachlorobutadiene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1
Isopropylbenzene	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
p-Isopropyltoluene	< 25	ug/kg	3.4	11	1	12/29/99	8021A	MSV	1
Methylene chloride	< 25	ug/kg	3.3	11	1	12/29/99	8021A	MSV	1
MTBE	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
Naphthalene	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
n-Propylbenzene	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	7.1	24	1	12/29/99	8021A	MSV	1
Tetrachloroethene	< 25	ug/kg	3.6	12	1	12/29/99	8021A	MSV	1
Toluene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,4-Trichlorobenzene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,3-Trichlorobenzene	< 25	ug/kg	5.4	18	1	12/29/99	8021A	MSV	1
1,1,1-Trichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1,2-Trichloroethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
Trichloroethene	< 25	ug/kg	4.6	15	1	12/29/99	8021A	MSV	1

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 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320B							Sample Type Soil		
Sample ID S202							Sample Date 12/20/99		
Trichlorofluoromethane	< 25	ug/kg	19	65	1	12/29/99	8021A	MSV	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3.8	13	1	12/29/99	8021A	MSV	1
Vinyl Chloride	< 25	ug/kg	4.7	16	1	12/29/99	8021A	MSV	1
m&p-Xylene	< 50	ug/kg	5.6	19	1	12/29/99	8021A	MSV	1
o-Xylene	< 25	ug/kg	2.7	9	1	12/29/99	8021A	MSV	1

Lab Code 5028320C							Sample Type Soil		
Sample ID S304							Sample Date 12/20/99		

Inorganic

General

Solids Percent	95.1	%				1	12/23/99	5021	RMB	1
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Organic

VOC's

Benzene	< 25	ug/kg	5.9	20	1	12/29/99	8021A	MSV	1
Bromobenzene	< 25	ug/kg	3.1	10	1	12/29/99	8021A	MSV	1
Bromodichloromethane	< 25	ug/kg	2.7	8.9	1	12/29/99	8021A	MSV	1
tert-Butylbenzene	< 25	ug/kg	2.3	7.7	1	12/29/99	8021A	MSV	1
sec-Butylbenzene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1
n-Butylbenzene	< 25	ug/kg	2.5	8.4	1	12/29/99	8021A	MSV	1
Carbon Tetrachloride	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Chlorobenzene	< 25	ug/kg	2.5	8.2	1	12/29/99	8021A	MSV	1
Chloroethane	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
Chloroform	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
Chloromethane	< 25	ug/kg	7.3	24	1	12/29/99	8021A	MSV	1
2-Chlorotoluene	< 25	ug/kg	2.4	7.9	1	12/29/99	8021A	MSV	1
4-Chlorotoluene	< 25	ug/kg	2.3	7.8	1	12/29/99	8021A	MSV	1
2,2-DCP, cis-1,2-Dichloroethene	< 25	ug/kg	4.1	14	1	12/29/99	8021A	MSV	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	2.1	7.1	1	12/29/99	8021A	MSV	1
Dibromochloromethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
1,4-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
1,3-Dichlorobenzene	< 25	ug/kg	2.2	7.4	1	12/29/99	8021A	MSV	1
1,2-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Dichlorodifluoromethane	< 25	ug/kg	4.3	14	1	12/29/99	8021A	MSV	4
1,2-Dichloroethane	< 25	ug/kg	2.7	9.1	1	12/29/99	8021A	MSV	1
1,1-Dichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1

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 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320C						Sample Type Soil			
Sample ID S304						Sample Date 12/20/99			
1,1-Dichloroethene	< 25	ug/kg	2.2	7.5	1	12/29/99	8021A	MSV	1
cis-1,2-Dichloroethene	< 25	ug/kg	2.8	9.3	1	12/29/99	8021A	MSV	1
trans-1,2-Dichloroethene	< 25	ug/kg	3.5	12	1	12/29/99	8021A	MSV	1
1,2-Dichloropropane	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3-Dichloropropane	< 25	ug/kg	2.2	7.3	1	12/29/99	8021A	MSV	1
Di-isopropyl ether	< 25	ug/kg	3.9	13	1	12/29/99	8021A	MSV	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	4.2	14	1	12/29/99	8021A	MSV	1
Ethylbenzene	< 25	ug/kg	6.2	11	1	12/29/99	8021A	MSV	1
Hexachlorobutadiene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1
Isopropylbenzene	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
p-Isopropyltoluene	< 25	ug/kg	3.4	11	1	12/29/99	8021A	MSV	1
Methylene chloride	< 25	ug/kg	3.3	11	1	12/29/99	8021A	MSV	1
MTBE	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
Naphthalene	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
n-Propylbenzene	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	7.1	24	1	12/29/99	8021A	MSV	1
Tetrachloroethene	< 25	ug/kg	3.6	12	1	12/29/99	8021A	MSV	1
Toluene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,4-Trichlorobenzene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,3-Trichlorobenzene	< 25	ug/kg	5.4	18	1	12/29/99	8021A	MSV	1
1,1,1-Trichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1,2-Trichloroethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
Trichloroethene	< 25	ug/kg	4.6	15	1	12/29/99	8021A	MSV	1
Trichlorofluoromethane	< 25	ug/kg	19	65	1	12/29/99	8021A	MSV	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3.8	13	1	12/29/99	8021A	MSV	1
Vinyl Chloride	< 25	ug/kg	4.7	16	1	12/29/99	8021A	MSV	1
m&p-Xylene	< 50	ug/kg	5.6	19	1	12/29/99	8021A	MSV	1
o-Xylene	< 25	ug/kg	2.7	9	1	12/29/99	8021A	MSV	1

Lab Code 5028320D	Sample Type Water
Sample ID GP100	Sample Date 12/20/99

Organic

VOC's

Benzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromobenzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1

U.S. Analytical Lab

BARB FLIETNER
 NORTHERN ENVIRONMENTAL
 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5028320D					Sample Type	Water			
Sample ID	GP100					Sample Date	12/20/99			
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1	
tert-Butylbenzene	< 0.33	ug/l	0.33	1.1	1	12/24/99	8021A	CAH	1	
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1	
n-Butylbenzene	< 0.23	ug/l	0.23	0.78	1	12/24/99	8021A	CAH	1	
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.6	1	12/24/99	8021A	CAH	4	
Chlorobenzene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1	
Chloroethane	< 0.13	ug/l	0.13	0.42	1	12/24/99	8021A	CAH	1	
Chloroform	< 0.4	ug/l	0.4	1.3	1	12/24/99	8021A	CAH	1	
Chloromethane	< 0.18	ug/l	0.18	0.59	1	12/24/99	8021A	CAH	1	
2-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1	
4-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1	
1,2-Dibromo-3-chloropropane	< 0.22	ug/l	0.22	0.73	1	12/24/99	8021A	CAH	1	
Dibromochloromethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1	
1,4-Dichlorobenzene	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	1	
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.94	1	12/24/99	8021A	CAH	1	
1,2-Dichlorobenzene	< 0.29	ug/l	0.29	1	1	12/24/99	8021A	CAH	1	
Dichlorodifluoromethane	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	4	
1,2-Dichloroethane	< 0.36	ug/l	0.36	1.2	1	12/24/99	8021A	CAH	1	
1,1-Dichloroethane	< 0.34	ug/l	0.34	1.3	1	12/24/99	8021A	CAH	1	
1,1-Dichloroethene	< 0.39	ug/l	0.39	1.3	1	12/24/99	8021A	CAH	1	
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1	
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1	
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1	
2,2-Dichloropropane	< 0.56	ug/l	0.56	1.9	1	12/24/99	8021A	CAH	4	
Di-isopropyl ether	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1	
EDB (1,2-Dibromoethane)	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1	
Ethylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1	
Hexachlorobutadiene	< 0.27	ug/l	0.27	0.91	1	12/24/99	8021A	CAH	4 5	
Isopropylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1	
p-Isopropyltoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1	
Methylene chloride	< 2	ug/l	2	6	1	12/24/99	8021A	CAH	1	
MTBE	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1	
Naphthalene	< 0.88	ug/l	0.88	2.9	1	12/24/99	8021A	CAH	1	
n-Propylbenzene	< 0.3	ug/l	0.3	1	1	12/24/99	8021A	CAH	1	
1,1,2,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1	
1,3-DCP, Tetrachloroethene	< 0.75	ug/l	0.75	2.5	1	12/24/99	8021A	CAH	1	
Tetrachloroethene	130	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1	

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 NORTHERN ENVIRONMENTAL
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 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320D						Sample Type Water			
Sample ID GP100						Sample Date 12/20/99			
Toluene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.41	ug/l	0.41	1.4	1	12/24/99	8021A	CAH	1
1,2,3-Trichlorobenzene	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	1
1,1,1-Trichloroethane	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	4
1,1,2-Trichloroethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
Trichloroethene	< 0.48	ug/l	0.48	1.6	1	12/24/99	8021A	CAH	1
Trichlorofluoromethane	< 0.15	ug/l	0.15	0.5	1	12/24/99	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.64	ug/l	0.64	2.1	1	12/24/99	8021A	CAH	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.49	1	12/24/99	8021A	CAH	1
m&p-Xylene	< 0.66	ug/l	0.66	2.2	1	12/24/99	8021A	CAH	1
o-Xylene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Lab Code 5028320E						Sample Type Water			
Sample ID GP200						Sample Date 12/20/99			

Organic

VOC's

Benzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromobenzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
tert-Butylbenzene	< 0.33	ug/l	0.33	1.1	1	12/24/99	8021A	CAH	1
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
n-Butylbenzene	< 0.23	ug/l	0.23	0.78	1	12/24/99	8021A	CAH	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.6	1	12/24/99	8021A	CAH	4
Chlorobenzene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Chloroethane	< 0.13	ug/l	0.13	0.42	1	12/24/99	8021A	CAH	1
Chloroform	< 0.4	ug/l	0.4	1.3	1	12/24/99	8021A	CAH	1
Chloromethane	< 0.18	ug/l	0.18	0.59	1	12/24/99	8021A	CAH	1
2-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
4-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.22	ug/l	0.22	0.73	1	12/24/99	8021A	CAH	1
Dibromochloromethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
1,4-Dichlorobenzene	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.94	1	12/24/99	8021A	CAH	1
1,2-Dichlorobenzene	< 0.29	ug/l	0.29	1	1	12/24/99	8021A	CAH	1
Dichlorodifluoromethane	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	4

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Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320E						Sample Type Water			
Sample ID GP200						Sample Date 12/20/99			
1,2-Dichloroethane	< 0.36	ug/l	0.36	1.2	1	12/24/99	8021A	CAH	1
1,1-Dichloroethane	< 0.34	ug/l	0.34	1.3	1	12/24/99	8021A	CAH	1
1,1-Dichloroethene	< 0.39	ug/l	0.39	1.3	1	12/24/99	8021A	CAH	1
cis-1,2-Dichloroethene	1.7	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
2,2-Dichloropropane	< 0.56	ug/l	0.56	1.9	1	12/24/99	8021A	CAH	4
Di-isopropyl ether	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
EDB (1,2-Dibromoethane)	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
Ethylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
Hexachlorobutadiene	< 0.27	ug/l	0.27	0.91	1	12/24/99	8021A	CAH	4 5
Isopropylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Methylene chloride	< 2	ug/l	2	6	1	12/24/99	8021A	CAH	1
MTBE	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Naphthalene	< 0.88	ug/l	0.88	2.9	1	12/24/99	8021A	CAH	1
n-Propylbenzene	< 0.3	ug/l	0.3	1	1	12/24/99	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.75	ug/l	0.75	2.5	1	12/24/99	8021A	CAH	1
Tetrachloroethene	110	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
Toluene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.41	ug/l	0.41	1.4	1	12/24/99	8021A	CAH	1
1,2,3-Trichlorobenzene	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	1
1,1,1-Trichloroethane	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	4
1,1,2-Trichloroethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
Trichloroethene	2.1	ug/l	0.48	1.6	1	12/24/99	8021A	CAH	1
Trichlorofluoromethane	< 0.15	ug/l	0.15	0.5	1	12/24/99	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.64	ug/l	0.64	2.1	1	12/24/99	8021A	CAH	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.49	1	12/24/99	8021A	CAH	1
m&p-Xylene	< 0.66	ug/l	0.66	2.2	1	12/24/99	8021A	CAH	1
o-Xylene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1

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BARB FLIETNER
 NORTHERN ENVIRONMENTAL
 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5028320F					Sample Type	Water		
Sample ID	GP300					Sample Date	12/20/99		

Organic

VOC's

Benzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromobenzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
tert-Butylbenzene	< 0.33	ug/l	0.33	1.1	1	12/24/99	8021A	CAH	1
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
n-Butylbenzene	< 0.23	ug/l	0.23	0.78	1	12/24/99	8021A	CAH	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.6	1	12/24/99	8021A	CAH	4
Chlorobenzene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Chloroethane	< 0.13	ug/l	0.13	0.42	1	12/24/99	8021A	CAH	1
Chloroform	< 0.4	ug/l	0.4	1.3	1	12/24/99	8021A	CAH	1
Chloromethane	< 0.18	ug/l	0.18	0.59	1	12/24/99	8021A	CAH	1
2-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
4-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.22	ug/l	0.22	0.73	1	12/24/99	8021A	CAH	1
Dibromochloromethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
1,4-Dichlorobenzene	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.94	1	12/24/99	8021A	CAH	1
1,2-Dichlorobenzene	< 0.29	ug/l	0.29	1	1	12/24/99	8021A	CAH	1
Dichlorodifluoromethane	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	4
1,2-Dichloroethane	< 0.36	ug/l	0.36	1.2	1	12/24/99	8021A	CAH	1
1,1-Dichloroethane	< 0.34	ug/l	0.34	1.3	1	12/24/99	8021A	CAH	1
1,1-Dichloroethene	< 0.39	ug/l	0.39	1.3	1	12/24/99	8021A	CAH	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
2,2-Dichloropropane	< 0.56	ug/l	0.56	1.9	1	12/24/99	8021A	CAH	4
Di-isopropyl ether	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
EDB (1,2-Dibromoethane)	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
Ethylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
Hexachlorobutadiene	< 0.27	ug/l	0.27	0.91	1	12/24/99	8021A	CAH	4 5
Isopropylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Methylene chloride	< 2	ug/l	2	6	1	12/24/99	8021A	CAH	1
MTBE	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1

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BARB FLIETNER
 NORTHERN ENVIRONMENTAL
 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320F						Sample Type Water			
Sample ID GP300						Sample Date 12/20/99			
Naphthalene	< 0.88	ug/l	0.88	2.9	1	12/24/99	8021A	CAH	1
n-Propylbenzene	< 0.3	ug/l	0.3	1	1	12/24/99	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.75	ug/l	0.75	2.5	1	12/24/99	8021A	CAH	1
Tetrachloroethene	120	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
Toluene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.41	ug/l	0.41	1.4	1	12/24/99	8021A	CAH	1
1,2,3-Trichlorobenzene	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	1
1,1,1-Trichloroethane	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	4
1,1,2-Trichloroethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
Trichloroethene	0.54 "J"	ug/l	0.48	1.6	1	12/24/99	8021A	CAH	1
Trichlorofluoromethane	< 0.15	ug/l	0.15	0.5	1	12/24/99	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.64	ug/l	0.64	2.1	1	12/24/99	8021A	CAH	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.49	1	12/24/99	8021A	CAH	1
m&p-Xylene	< 0.66	ug/l	0.66	2.2	1	12/24/99	8021A	CAH	1
o-Xylene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Lab Code 5028320G						Sample Type Water			
Sample ID SP400						Sample Date 12/20/99			

Organic

VOC's

Benzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromobenzene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
tert-Butylbenzene	< 0.33	ug/l	0.33	1.1	1	12/24/99	8021A	CAH	1
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
n-Butylbenzene	< 0.23	ug/l	0.23	0.78	1	12/24/99	8021A	CAH	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.6	1	12/24/99	8021A	CAH	4
Chlorobenzene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Chloroethane	< 0.13	ug/l	0.13	0.42	1	12/24/99	8021A	CAH	1
Chloroform	0.62 "J"	ug/l	0.4	1.3	1	12/24/99	8021A	CAH	1
Chloromethane	< 0.18	ug/l	0.18	0.59	1	12/24/99	8021A	CAH	1
2-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
4-Chlorotoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.22	ug/l	0.22	0.73	1	12/24/99	8021A	CAH	1

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BARB FLIETNER
 NORTHERN ENVIRONMENTAL
 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5028320G						Sample Type Water			
Sample ID SP400						Sample Date 12/20/99			
Dibromochloromethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
1,4-Dichlorobenzene	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.94	1	12/24/99	8021A	CAH	1
1,2-Dichlorobenzene	< 0.29	ug/l	0.29	1	1	12/24/99	8021A	CAH	1
Dichlorodifluoromethane	< 0.28	ug/l	0.28	0.92	1	12/24/99	8021A	CAH	4
1,2-Dichloroethane	< 0.36	ug/l	0.36	1.2	1	12/24/99	8021A	CAH	1
1,1-Dichloroethane	< 0.34	ug/l	0.34	1.3	1	12/24/99	8021A	CAH	1
1,1-Dichloroethene	< 0.39	ug/l	0.39	1.3	1	12/24/99	8021A	CAH	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.3	1	12/24/99	8021A	CAH	1
2,2-Dichloropropane	< 0.56	ug/l	0.56	1.9	1	12/24/99	8021A	CAH	4
Di-isopropyl ether	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1
EDB (1,2-Dibromoethane)	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
Ethylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
Hexachlorobutadiene	< 0.27	ug/l	0.27	0.91	1	12/24/99	8021A	CAH	4 5
Isopropylbenzene	< 0.34	ug/l	0.34	1.1	1	12/24/99	8021A	CAH	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Methylene chloride	< 2	ug/l	2	6	1	12/24/99	8021A	CAH	1
MTBE	< 0.31	ug/l	0.31	1	1	12/24/99	8021A	CAH	1
Naphthalene	< 0.88	ug/l	0.88	2.9	1	12/24/99	8021A	CAH	1
n-Propylbenzene	< 0.3	ug/l	0.3	1	1	12/24/99	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.75	ug/l	0.75	2.5	1	12/24/99	8021A	CAH	1
Tetrachloroethene	87	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
Toluene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.41	ug/l	0.41	1.4	1	12/24/99	8021A	CAH	1
1,2,3-Trichlorobenzene	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	1
1,1,1-Trichloroethane	< 0.45	ug/l	0.45	1.5	1	12/24/99	8021A	CAH	4
1,1,2-Trichloroethane	< 0.37	ug/l	0.37	1.2	1	12/24/99	8021A	CAH	1
Trichloroethene	0.55 "J"	ug/l	0.48	1.6	1	12/24/99	8021A	CAH	1
Trichlorofluoromethane	< 0.15	ug/l	0.15	0.5	1	12/24/99	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.2	1	12/24/99	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.64	ug/l	0.64	2.1	1	12/24/99	8021A	CAH	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.49	1	12/24/99	8021A	CAH	1
m&p-Xylene	< 0.66	ug/l	0.66	2.2	1	12/24/99	8021A	CAH	1
o-Xylene	< 0.32	ug/l	0.32	1.1	1	12/24/99	8021A	CAH	1

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 NORTHERN ENVIRONMENTAL
 330 4TH AVE SOUTH
 PARK FALLS WI 54552

Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5028320H					Sample Type	Soil		
Sample ID	HA3					Sample Date	12/20/99		

Inorganic

General

Solids Percent	94.4	%			1	12/23/99	5021	RMB	1
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Organic

VOC's

Benzene	< 25	ug/kg	5.9	20	1	12/29/99	8021A	MSV	1
Bromobenzene	< 25	ug/kg	3.1	10	1	12/29/99	8021A	MSV	1
Bromodichloromethane	< 25	ug/kg	2.7	8.9	1	12/29/99	8021A	MSV	1
tert-Butylbenzene	< 25	ug/kg	2.3	7.7	1	12/29/99	8021A	MSV	1
sec-Butylbenzene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1
n-Butylbenzene	< 25	ug/kg	2.5	8.4	1	12/29/99	8021A	MSV	1
Carbon Tetrachloride	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Chlorobenzene	< 25	ug/kg	2.5	8.2	1	12/29/99	8021A	MSV	1
Chloroethane	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
Chloroform	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
Chloromethane	< 25	ug/kg	7.3	24	1	12/29/99	8021A	MSV	1
2-Chlorotoluene	< 25	ug/kg	2.4	7.9	1	12/29/99	8021A	MSV	1
4-Chlorotoluene	< 25	ug/kg	2.3	7.8	1	12/29/99	8021A	MSV	1
2,2-DCP, cis-1,2-Dichloroethene	< 25	ug/kg	4.1	14	1	12/29/99	8021A	MSV	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	2.1	7.1	1	12/29/99	8021A	MSV	1
Dibromochloromethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
1,4-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
1,3-Dichlorobenzene	< 25	ug/kg	2.2	7.4	1	12/29/99	8021A	MSV	1
1,2-Dichlorobenzene	< 25	ug/kg	2.2	7.2	1	12/29/99	8021A	MSV	1
Dichlorodifluoromethane	< 25	ug/kg	4.3	14	1	12/29/99	8021A	MSV	4
1,2-Dichloroethane	< 25	ug/kg	2.7	9.1	1	12/29/99	8021A	MSV	1
1,1-Dichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1-Dichloroethene	< 25	ug/kg	2.2	7.5	1	12/29/99	8021A	MSV	1
cis-1,2-Dichloroethene	< 25	ug/kg	2.8	9.3	1	12/29/99	8021A	MSV	1
trans-1,2-Dichloroethene	< 25	ug/kg	3.5	12	1	12/29/99	8021A	MSV	1
1,2-Dichloropropane	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3-Dichloropropane	< 25	ug/kg	2.2	7.3	1	12/29/99	8021A	MSV	1
Di-isopropyl ether	< 25	ug/kg	3.9	13	1	12/29/99	8021A	MSV	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	4.2	14	1	12/29/99	8021A	MSV	1
Ethylbenzene	< 25	ug/kg	6.2	11	1	12/29/99	8021A	MSV	1
Hexachlorobutadiene	< 25	ug/kg	4.8	16	1	12/29/99	8021A	MSV	1

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Project # ECL04-0407-0305
 Project Name EAGLE RIVER
 Invoice # E28320

Report Date 11-Jan-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5028320H		Sample Type		Soil				
Sample ID	HA3		Sample Date		12/20/99				
Isopropylbenzene	< 25	ug/kg	5	17	1	12/29/99	8021A	MSV	1
p-Isopropyltoluene	< 25	ug/kg	3.4	11	1	12/29/99	8021A	MSV	1
Methylene chloride	< 25	ug/kg	3.3	11	1	12/29/99	8021A	MSV	1
MTBE	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
Naphthalene	< 25	ug/kg	7	23	1	12/29/99	8021A	MSV	1
n-Propylbenzene	< 25	ug/kg	2.8	9.2	1	12/29/99	8021A	MSV	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	7.1	24	1	12/29/99	8021A	MSV	1
Tetrachloroethene	< 25	ug/kg	3.6	12	1	12/29/99	8021A	MSV	1
Toluene	28	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,4-Trichlorobenzene	< 25	ug/kg	5.1	17	1	12/29/99	8021A	MSV	1
1,2,3-Trichlorobenzene	< 25	ug/kg	5.4	18	1	12/29/99	8021A	MSV	1
1,1,1-Trichloroethane	< 25	ug/kg	2.3	7.6	1	12/29/99	8021A	MSV	1
1,1,2-Trichloroethane	< 25	ug/kg	2	6.7	1	12/29/99	8021A	MSV	1
Trichloroethene	< 25	ug/kg	4.6	15	1	12/29/99	8021A	MSV	1
Trichlorofluoromethane	< 25	ug/kg	19	65	1	12/29/99	8021A	MSV	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.4	8	1	12/29/99	8021A	MSV	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3.8	13	1	12/29/99	8021A	MSV	1
Vinyl Chloride	< 25	ug/kg	4.7	16	1	12/29/99	8021A	MSV	1
m&p-Xylene	< 50	ug/kg	5.6	19	1	12/29/99	8021A	MSV	1
o-Xylene	< 25	ug/kg	2.7	9	1	12/29/99	8021A	MSV	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

- 1 All laboratory QC requirements were met for this sample.
- 4 The check standard failed to meet acceptable QC limits.
- 5 The blank failed to meet acceptable QC limits.

Authorized Signature

