02-37-000006
12/10/96

MONTGOMERY WATSON

RECEIVED
DEC 19 1996
WI. RAPIDS AREA HDQ.
WI. RAPIDS, WI

December 10, 1996

Mr. Scott Watson
Wisconsin Department of Natural Resources
P.O. Box 818
Rhinelander, Wisconsin 54501

Don Grasser
Wisconsin Department of Natural Resources
1681 2nd Avenue S.
Room 118
Wisconsin Rapids, Wisconsin 54494

Re: Annual Project Progress Meeting
Wauleco Remediation Site
Wausau, Wisconsin

Dear Scott and Don:

As we discussed by telephone, Montgomery Watson and Wauleco are committed to meeting annually to discuss remediation progress at the Wauleco remediation facility in Wausau. Since our last meeting was held in September 1995, we are due to meet again soon. Both of you agreed that it would be difficult to schedule a meeting yet this year, and that late January or early February of 1997 would be better for everyone.

We will contact you in early January to determine the exact date. Please call if you have any questions in the interim.

Sincerely,

MONTGOMERY WATSON

Douglas J. Bach, P.E.
Supervising Engineer

cc: Caroline Fribance, Wauleco
Bob Kammer, Wauleco
Peter Peshek, DeWitt, Ross & Stevens

DJB/vlr/KJQ
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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

CONVERSATION - DETAILED REPORT

Date: 2/3/97 Time: 2:09 PM Call Duration: 00:01:14

EVANS, BILL
WDNR
715-839-3710

Call Regarding: Waleco Site, Wausau
Call/Receive: Call
Call Status: Left Message

NOTES:
I called Bill to inform him of the proposed meeting at Waleco on 2/21 and wanted to know who would be assigned from RR. Scott Watson will be meeting with Montgomery Watson and Peter Peshig at the site.

CONVERSATION - DETAILED REPORT

Date: 2/3/97 Time: 2:06 PM Call Duration: 00:03:28

WATSON, MONTGOMERY
608-231-4747

Call Regarding: Waleco Site, Wausau
Call/Receive: Receive
Call Status: Contacted

Free 1: Doug Bach

NOTES:
Doug called back. I informed him that I have taken a new position in the waste program so I am no longer working in the RR program. I will contact Eau Claire, WCR, to find out who will be assigned to this site. It will likely be Lisa Gutknecht or Jack Eslien. I will call him back when I find out to see if they can meet on 2/21 along with Scott Watson.

CONVERSATION - DETAILED REPORT

Date: 2/3/97 Time: 1:46 PM Call Duration: 00:02:03

WATSON, MONTGOMERY
608-231-4747

Call Regarding: Waleco Site, Wausau, WI
Call/Receive: Call
Call Status: Left Message

Free 1: Doug Bach

NOTES:
I returned his message from today at 10:41 am regarding scheduling a meeting at the Waleco site. I called to inform him that I have a new position on the waste team as a supervisor. I want to talk to him about who will be taking over my responsibilities for the Waleco site.

CONVERSATION - DETAILED REPORT

Date: 1/27/97 Time: 2:24 PM Call Duration: 00:00:57

WATSON, MONTGOMERY
608-231-4747

Call Regarding: Waleco Site, Meeting
Call/Receive: Receive
Call Status: Left Message

Free 1: Doug Bach

NOTES:
Called to inform me that he will be scheduling a meeting for February 19 or 21 in the morning for a few hours. He left a message with Scott Watson as well.

10/31/96

02-37-000006

MONTGOMERY WATSON

October 31, 1996

Mr. Gary Kulibert
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: September Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Mr. Kulibert:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the September Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Director Remediation and Redevelopment - WDNR (Central, Madison, WI) (w/1 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/vlr/JDD/DJB
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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
SEPTEMBER 1996

SUMMARY OF SEPTEMBER 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period. The result for a laboratory sample collected on September 19 confirmed that the effluent PCP concentration was less than 10 ug/L.

PCP influent concentrations ranged from 1,111 ug/L to 14,828 ug/L during September 1996 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent concentrations increased slightly and effluent concentrations remained steady during this reporting period, and treatment efficiency within the FBR averaged 94%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

We are continuing to coordinate efforts with the City of Wausau POTW to address potential infiltration into the sanitary sewer system in the vicinity of the Wauleco property.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels decreased and total product recovery increased during September. Product recovery for September was 162 gal compared to 143 gal recovered during August. The product recovery decreased at wells PW10, PW11, and PW13 and increased at wells PW4, PW5, PW15, and PW16.

Recovery wells PW4, PW5, PW7, and PW15 were redeveloped on September 19.

Groundwater Monitoring

Groundwater elevation and product thickness data for July, August, and September are summarized in Table 4. The oil-water interface probe malfunctioned during the September monitoring event due to a break in the conductance wire that indicates the interface between the product and the water. Therefore, the data collected with this probe are not presented in Table 4.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system was shut down on July 21 to conduct a respirometry test to evaluate the biodegradation kinetics. Soil samples were collected in the pilot test area during the week of August 19th to evaluate the effectiveness of the system after one year of operation. Results of the respirometry test, soil analyses, and groundwater data are being evaluated to determine the future operation and/or modification of the pilot test system.

JMR/ndj/JDD/DJB
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TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)				
	19-SEP-96	< .25	< .25	< .25
Chemical Oxygen Demand (mg/L)				
	09-SEP-96	75	20	10
	19-SEP-96	56	49	< 20
	23-SEP-96	70	30	5
Chloride (mg/L)				
	19-SEP-96	133	146	140
Dissolved Oxygen (mg/L)				
	03-SEP-96	7.2	5.4	1
	06-SEP-96	7.8	4.5	.7
	09-SEP-96	6.2	5.2	1.2
	11-SEP-96	8.3	6.4	.4
	16-SEP-96	8.3	6.4	.4
	19-SEP-96	8	4.2	.9
	23-SEP-96	6.6	5.4	.6
	25-SEP-96	8.4	4.9	.4
	27-SEP-96	8.5	5.4	.8
	30-SEP-96	8.1	5.2	.6
Gasoline (mg/L)				
	19-SEP-96	< .25	< .25	< .25
Kerosene (mg/L)				
	19-SEP-96	< .25	< .25	< .25
Mineral Spirits (mg/L)				
	19-SEP-96	1.2	.25	.25
Nitrogen, Ammonia (mg/L)				
	03-SEP-96	2	0	
	06-SEP-96	3	0	
	09-SEP-96	3	0	
	11-SEP-96	3	0	
	16-SEP-96	3	0	
	19-SEP-96	3	0	
	23-SEP-96	3	0	
	25-SEP-96	4	0	
	27-SEP-96	4	0	
	30-SEP-96	3	0	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Nitrate (mg/L)				
	03-SEP-96	.1	1	
	06-SEP-96	.2	1	
	09-SEP-96	0	1	
	11-SEP-96	.5	1	
	16-SEP-96	.5	1	
	19-SEP-96	.3	1.2	
	23-SEP-96	.1	.9	
	25-SEP-96	.3	1.4	
	27-SEP-96	.2	2	
	30-SEP-96	.3	2	
Nitrogen, Nitrate + Nitrite (mg/L)	19-SEP-96	.46	2.19	.47
Nitrogen, Total Kjeldahl (mg/L)	19-SEP-96	4.24	2.43	.47
Oil and Grease (mg/L)	19-SEP-96	6	< 1	< 1

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	01-SEP-96			0
	02-SEP-96			2
	03-SEP-96			2
	04-SEP-96	1212	184	1
	05-SEP-96			1
	06-SEP-96	10050	450	2
	07-SEP-96			1
	08-SEP-96			1
	09-SEP-96	1111	56	0
	10-SEP-96			2
	11-SEP-96	14828	685	2
	12-SEP-96	10955	627	5
	13-SEP-96			4
	14-SEP-96			3
	15-SEP-96			3
	16-SEP-96	5055	710	1
	17-SEP-96			2
	18-SEP-96			2
	19-SEP-96	12615	446	2
	20-SEP-96			0
	21-SEP-96			1
	22-SEP-96			1
	23-SEP-96	7087	116	1
	24-SEP-96			1
	25-SEP-96	3508	156	1
	26-SEP-96			1
	27-SEP-96	12546	415	1
	28-SEP-96			1
	29-SEP-96			1
	30-SEP-96	10546	356	0
Phosphorus, Ortho (mg/L)				
	19-SEP-96	1.69	1.44	.87
Phosphorus, Phosphate (mg/L)				
	03-SEP-96		2	2
	06-SEP-96	3	2	
	09-SEP-96	7	5	
	11-SEP-96	3	3	
	16-SEP-96	3	3	
	19-SEP-96	1.5		
	23-SEP-96	3	3	
	25-SEP-96	3	3	
	27-SEP-96	2	2	
	30-SEP-96	2	2	
Solids, Total Suspended (mg/L)				
	19-SEP-96	7	61	< 2

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
pH (S.U.)				
	03-SEP-96	6.6	6.8	6.7
	06-SEP-96	6.6	6.7	6.7
	09-SEP-96	6.3	6.4	6.6
	11-SEP-96	6.5	6.6	6.7
	16-SEP-96	6.5	6.6	6.7
	19-SEP-96	6.6	6.7	6.8
		6.74	6.87	7.6
	23-SEP-96	6.3	6.5	6.5
	25-SEP-96	6.7	6.7	6.6
	27-SEP-96	6.8	6.8	6.8
	30-SEP-96	6.7	6.7	6.6

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
09/01/96	26.20	26.20	7700922	0.00
09/02/96	25.00	25.00	7738650	0.00
09/03/96	25.00	25.00	7774650	0.00
09/04/96	20.83	20.83	7804650	0.00
09/05/96	27.01	27.01	7843540	0.00
09/06/96	27.01	27.01	7882430	0.00
09/07/96	27.01	27.01	7921320	0.00
09/08/96	19.92	19.92	7950000	0.00
09/09/96	14.56	14.56	7970970	0.00
09/10/96	23.90	23.90	8005390	0.00
09/11/96	22.90	22.90	8038370	0.00
09/12/96	25.44	25.44	8075000	0.00
09/13/96	25.44	25.44	8111630	0.00
09/14/96	25.44	25.44	8148260	0.00
09/15/96	25.44	25.44	8184890	0.00
09/16/96	25.44	25.44	8221520	0.00
09/17/96	14.70	14.70	8242690	0.00
09/18/96	22.64	22.64	8275290	0.00
09/19/96	24.20	24.20	8310140	0.00
09/20/96	23.15	23.15	8343470	0.00
09/21/96	23.15	23.15	8376800	0.00
09/22/96	23.15	23.15	8410130	0.00
09/23/96	15.85	15.85	8432950	0.00
09/24/96	25.19	25.19	8469220	0.00
09/25/96	27.59	27.59	8508950	0.00
09/26/96	27.03	27.03	8547870	0.00
09/27/96	22.31	22.31	8580000	0.00
09/28/96	20.83	20.83	8610000	0.00
09/29/96	17.36	17.36	8635000	0.00
09/30/96	19.06	19.06	8662440	0.00
AVERAGE:	23.09	23.09		0.00
TOTAL (2):			961518	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
9/1/96	1.72	0	0	0	1.72	0	0	0	0	0	3.44
9/2/96	1.72	0	0	0	0	0	0	0	0	1.72	3.44
9/3/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/4/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/5/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/6/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/7/96	3.44	0	0	0	1.72	1.72	0	0	0	1.72	8.60
9/8/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/9/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/10/96	3.44	0	0	0	0	0	0	0	0	0	3.44
9/11/96	3.44	0	0	0	0	0	0	0	0	0	3.44
9/12/96	3.44	0	0	0	0	0	0	0	1.72	1.72	6.88
9/13/96	3.44	0	0	0	0	0	0	0	0	0	3.44
9/14/96	3.44	0	0	0	0	0	0	0	0	1.72	5.16
9/15/96	3.44	1.72	1.72	0	0	0	0	0	0	1.72	8.60
9/16/96	5.16	0	0	0	0	0	0	0	0	0	5.16
9/17/96	1.72	0	0	0	1.72	0	0	0	12.04	1.72	17.20
9/18/96	1.72	0	0	0	0	0	0	1.72	0	1.72	5.16
9/19/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
9/20/96	1.72	0	0	0	1.72	0	0	1.72	0	1.72	6.88
9/21/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
9/22/96	1.72	0	0	0	0	1.72	0	1.72	0	1.72	6.88
9/23/96	1.72	0	0	0	0	0	0	1.72	0	1.72	5.16
9/24/96	1.72	0	0	0	0	0	0	0	0	1.72	3.44
9/25/96	0	0	0	0	0	0	0	1.72	1.72	0	3.44
9/26/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
9/27/96	0	0	0	0	0	0	0	1.72	0	1.72	3.44
9/28/96	1.72	1.72	0	0	0	0	0	1.72	0	1.72	6.88
9/29/96	0	0	1.72	0	0	0	0	1.72	0	1.72	5.16
9/30/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
Total:	72.24	3.44	3.44	0.00	6.88	5.16	0.00	20.64	15.48	34.40	161.68

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	July 31, 1996		August 28, 1996		September 24, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1164.31	-----	1164.07	-----	-----
PW02	-----	1164.50	-----	1164.19	-----	-----
PW03	0.01	1164.39	-----	1164.05	-----	-----
PW3S	-----	1161.21	-----	-----	-----	-----
PW04	0.20	1157.50	2.66	1152.42	-----	-----
PW05	0.10	1156.33	0.06	1154.72	-----	-----
PW06	0.42	1163.59	-----	-----	-----	-----
PW07	-----	1158.50	0.07	1157.41	-----	-----
PW08	-----	1161.47	-----	-----	-----	-----
PW9I	-----	1160.38	-----	1161.49	-----	-----
PW9O	-----	1163.34	-----	1162.87	-----	-----
PW10	1.40	1159.66	0.52	1160.36	-----	-----
PW11	0.20	1161.75	0.16	1161.05	-----	-----
PW12	-----	1164.41	-----	1164.08	-----	-----
PW13	0.80	1160.50	0.87	1159.82	-----	-----
PW14	-----	1162.52	-----	-----	-----	-----
PW15	-----	1156.23	-----	1159.00	-----	-----
PW16	1.20	1161.28	0.12	1161.60	-----	-----
P01	0.66	1162.75	0.74	1162.08	-----	-----
OW01	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01A	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01B	-----	1164.84	-----	1164.57	-----	1164.12
W02	-----	1163.94	-----	1163.61	-----	-----
W03A	-----	1162.30	-----	1161.93	-----	-----
W03B	0.01	1162.15	-----	1161.91	-----	-----
W04A	0.86	1163.02	0.77	1162.66	-----	-----
W04B	1.29	1162.69	1.00	1162.49	-----	-----
W05	0.22	1163.00	0.75	1162.09	-----	-----
W06R	-----	1164.76	-----	1164.38	-----	-----
W07	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W08	-----	1175.17	-----	1174.39	-----	1173.53
W09	-----	1163.04	-----	1162.72	-----	1162.32
W10A	-----	1161.18	-----	1161.04	-----	1160.92
W10B	-----	1161.29	-----	1161.09	-----	1161.01
W11	-----	1161.13	-----	1160.95	-----	1160.85
W12	-----	1160.63	-----	1160.50	-----	1160.44
W13	-----	1161.81	-----	1161.51	-----	1161.34
W14	-----	1159.56	-----	1159.60	-----	1160.65
W16	-----	1162.90	-----	1162.55	-----	1162.25
W17	0.11	1162.18	0.25	1161.70	-----	-----
W18	-----	1161.27	-----	1161.08	-----	1160.99
W19	-----	1164.26	-----	1164.02	-----	1163.42

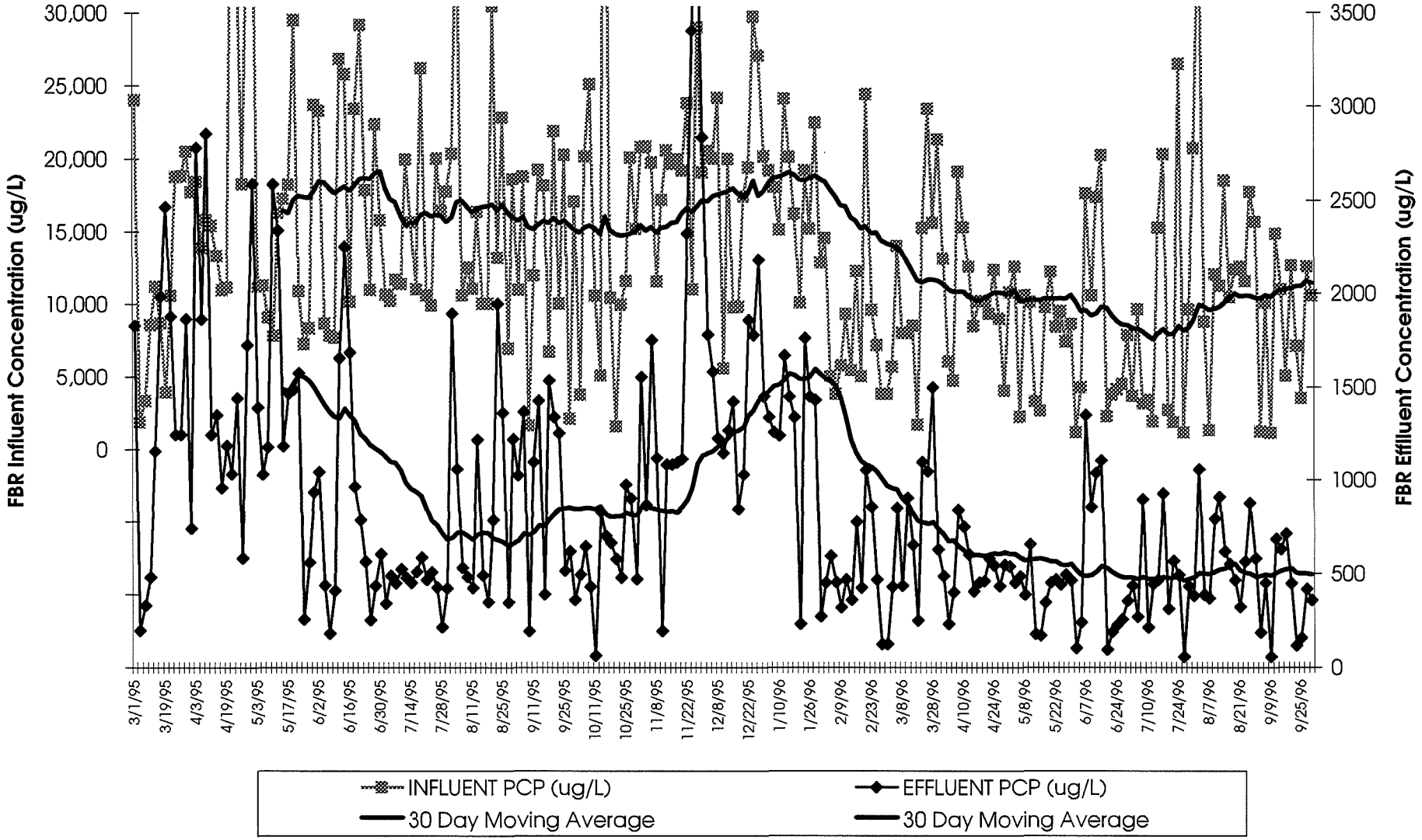
TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	July 31, 1996		August 28, 1996		September 24, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1160.88	-----	1160.76	-----	1160.71
W22	-----	1162.41	-----	1162.17	-----	1161.23
W23	-----	1160.90	-----	1160.78	-----	1160.71
W24A	-----	1160.85	-----	1160.74	-----	1160.68
W25	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W26	-----	1161.17	-----	1160.99	-----	1160.89
W27	-----	1162.20	-----	1161.88	-----	1161.65
W28	-----	1161.20	-----	1160.99	-----	1160.92
W29	-----	1160.98	-----	1160.83	-----	1160.79
W30	1.04	1162.36	0.92	1161.74	-----	-----
W31	-----	1160.93	-----	1160.82	-----	1160.80
W32	-----	1160.93	-----	1160.82	-----	1160.79
W33	-----	1163.46	-----	1163.04	-----	-----
W34	0.08	1160.03	0.02	1159.63	-----	-----
W35	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W36	-----	1163.50	-----	1163.10	-----	-----
W39	-----	1162.53	-----	1163.05	-----	-----
W40	0.68	1161.79	0.62	1161.29	-----	-----
W41	-----	1163.84	-----	1163.22	-----	1162.84
W42	0.13	1164.09	0.13	1163.68	-----	-----
W44	0.07	1163.36	0.11	1162.77	-----	-----
W45	-----	1163.76	-----	1163.35	-----	-----
W46	0.73	1162.61	0.80	1162.01	-----	-----
W47	1.31	1157.89	1.23	1157.51	-----	-----
W48	0.75	1158.64	0.98	1158.09	-----	-----
W49	0.01	1159.25	-----	1158.89	-----	-----
W66	0.01	1164.56	-----	1164.20	-----	-----
W67	-----	1164.45	-----	1164.16	-----	-----
W68A	-----	1164.50	-----	1164.17	-----	-----
W68B	-----	1164.47	-----	1164.06	-----	-----
W69	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W70B	-----	1158.27	-----	Inaccessible	-----	Inaccessible
River	-----	1160.99	-----	Gauge damaged	-----	1160.81

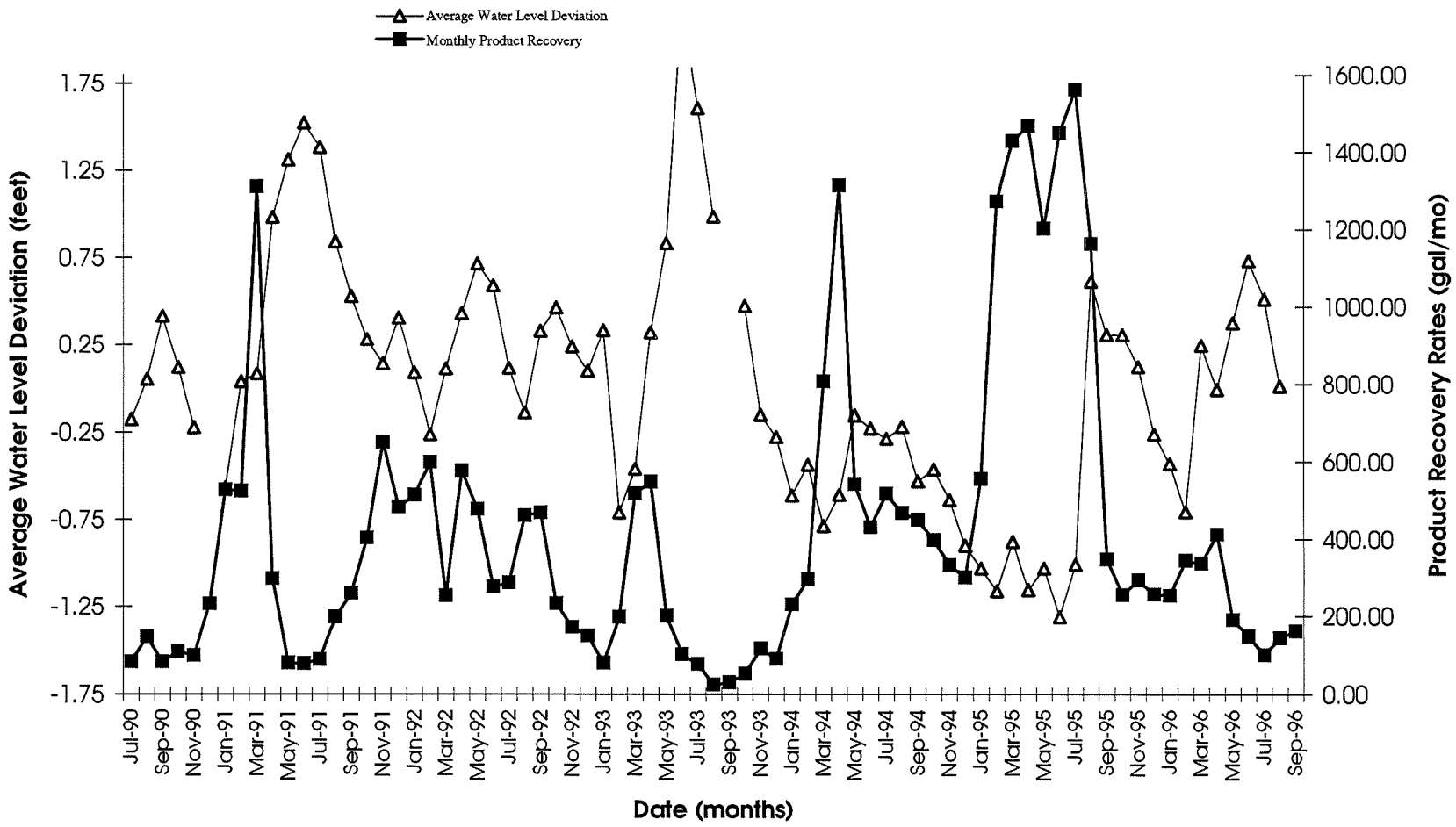
Note: The oil-water interface probe malfunctioned during the September 24, 1996 monitoring event due to a break in the conductance wire. Data collected using this probe are not presented.

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



J:\WAULECO\ONM96\SEPT\MNTLY.XLS\FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



J:\WAULECO\ONM96\SEPT\MNTLY.XLS
10/21/96

9/24/96

MONTGOMERY WATSON

September 24, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: August Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the August Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/vlr/JDD/DJB
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4113.0040-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
AUGUST 1996

SUMMARY OF AUGUST 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period. The result for a laboratory sample collected on August 21 confirmed that the effluent PCP concentration was less than 10 ug/L.

PCP influent concentrations ranged from 1,308 ug/L to 37,951 ug/L during August 1996 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent concentrations increased slightly and effluent concentrations remained steady during this reporting period, and treatment efficiency within the FBR averaged 93%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

We are currently coordinating efforts with the City of Wausau POTW to address potential infiltration into the sanitary sewer system in the vicinity of the Wauleco property.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels decreased and total product recovery increased during August. Product recovery for August was 143 gal compared to 100 gal recovered during July. The product recovery decreased at wells PW5, PW7, and PW15 and increased at wells PW4, PW10, PW11, PW13, and PW16.

Groundwater Monitoring

Groundwater elevation and product thickness data for June, July, and August are summarized in Table 4.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system was shut down on July 21 to conduct a respirometry test to evaluate the biodegradation kinetics. Soil samples were collected in the pilot test area during the week of August 19th to evaluate the effectiveness of the system after one year of operation. Results of the respirometry test, soil analyses, and groundwater data are being evaluated to determine the future operation and/or modification of the pilot test system.

JMR/vlr/JDD/DJB
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4113.0040-MD

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)				
	21-AUG-96	< .25	< .25	< .25
Chemical Oxygen Demand (mg/L)				
	05-AUG-96	70	40	5
	15-AUG-96	80	50	10
	21-AUG-96	52	52	< 20
	23-AUG-96	70	30	5
Chloride (mg/L)				
	21-AUG-96	195	95	107
Dissolved Oxygen (mg/L)				
	01-AUG-96	8.2	4.8	1
	05-AUG-96	7.8	4.4	1
	07-AUG-96	7.5	4.2	.4
	09-AUG-96	7.6	4	.5
	12-AUG-96	7.6	4	.2
	15-AUG-96	7.8	4.2	.3
	19-AUG-96	7.8	4	.2
	21-AUG-96	8	4	.3
	23-AUG-96	8	4.5	.6
	27-AUG-96	8.2	4.2	.8
	30-AUG-96	8	4.3	.8
Gasoline (mg/L)				
	21-AUG-96	< .25	< .25	< .25
Kerosene (mg/L)				
	21-AUG-96	< .25	< .25	< .25
Mineral Spirits (mg/L)				
	21-AUG-96	.49	< .25	< .25
Nitrogen, Ammonia (mg/L)				
	01-AUG-96	3	1	
	05-AUG-96	3	1	
	07-AUG-96	4	1	
	09-AUG-96	4	0	
	12-AUG-96	4	0	
	15-AUG-96	4	0	
	19-AUG-96	4	0	
	21-AUG-96	4	0	
	23-AUG-96	3	0	
	27-AUG-96	4	0	
	30-AUG-96	3	0	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Nitrate (mg/L)				
	01-AUG-96	.1	1	
	05-AUG-96	.1	1	
	07-AUG-96	.1	1.2	
	09-AUG-96	.1	1	
	12-AUG-96	.2	1	
	15-AUG-96	.2	1.2	
	19-AUG-96	.2	1	
	21-AUG-96	.2	1	
	23-AUG-96	.2	1	
	27-AUG-96	.2	1	
	30-AUG-96	.2	1	
Nitrogen, Nitrate + Nitrite (mg/L)				
	21-AUG-96	.29	1.5	.88
Nitrogen, Total Kjeldahl (mg/L)				
	21-AUG-96	4.29	2.17	< .1
Oil and Grease (mg/L)				
	21-AUG-96	14	< 1	2

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	01-AUG-96	37951	1058	0
	02-AUG-96			0
	03-AUG-96			0
	04-AUG-96			1
	05-AUG-96	8750	387	0
	06-AUG-96			0
	07-AUG-96	1308	368	0
	08-AUG-96			1
	09-AUG-96	12000	792	0
	10-AUG-96			0
	11-AUG-96			1
	12-AUG-96	11200	908	1
	13-AUG-96			0
	14-AUG-96	18480	616	0
	15-AUG-96	10450	549	2
	16-AUG-96			1
	17-AUG-96			0
	18-AUG-96			0
	19-AUG-96	12340	463	0
	20-AUG-96			1
	21-AUG-96	12539	323	1
	22-AUG-96			1
	23-AUG-96	11541	564	1
	24-AUG-96			1
	25-AUG-96			1
	26-AUG-96			1
	27-AUG-96	17664	874	3
	28-AUG-96			4
	29-AUG-96			2
	30-AUG-96	15642	580	2
	31-AUG-96			2
Phosphorus, Ortho (mg/L)				
	21-AUG-96	1.55	1.55	1.72
Phosphorus, Phosphate (mg/L)				
	05-AUG-96	2	2	
	07-AUG-96	2	2	
	09-AUG-96	2	2	
	12-AUG-96	2	2	
	15-AUG-96	2	2	
	19-AUG-96	2	2	
	21-AUG-96	2	2	
	23-AUG-96	2	2	
	27-AUG-96	2	2	
	30-AUG-96	2	2	
Solids, Total Suspended (mg/L)				
	21-AUG-96	5	19	< 2

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
pH (S.U.)				
	01-AUG-96	6.8	6.4	6.5
	05-AUG-96	6.7	6.5	6.6
	07-AUG-96	6.7	6.4	6.5
	09-AUG-96	6.7	6.7	6.6
	12-AUG-96	6.4	6.2	6.4
	15-AUG-96	6.4	6.4	6.5
	19-AUG-96	6.6	6.7	6.6
	21-AUG-96	6.6	6.7	6.6
	23-AUG-96	6.6	6.6	6.6
	27-AUG-96	6.6	6.7	6.6
	30-AUG-96	6.6	6.6	6.7

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
21-AUG-96	2,3,4,6-Tetrachlorophenol (ug/L)	910	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	< 500	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	< 500	< 10	< 10
	2,4-Dichlorophenol (ug/L)	< 500	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 500	< 10	< 10
	2,4-Dinitrophenol (ug/L)	< 1000	< 20	< 20
	2,6-Dichlorophenol (ug/L)	< 500	< 10	< 10
	2-Chlorophenol (ug/L)	< 500	< 10	< 10
	2-Methylphenol (ug/L)	< 500	< 10	< 10
	2-Nitrophenol (ug/L)	< 500	< 10	< 10
	3&4-Methylphenol (ug/L)	< 1000	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	< 500	< 10	< 10
	4-Chloro-3-methylphenol (ug/L)	< 500	< 10	< 10
	4-Nitrophenol (ug/L)	< 1000	< 20	< 20
	Dinoseb (ug/L)	< 500	< 10	< 10
	Pentachlorophenol (ug/L)	3900	17	5.2
				5.3
	Phenol (ug/L)	< 500	< 10	< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
08/01/96	24.00	24.00	6695600	0.00
08/02/96	24.31	24.31	6730600	0.00
08/03/96	24.31	24.31	6765600	0.00
08/04/96	24.31	24.31	6800600	0.00
08/05/96	17.15	17.15	6825290	0.00
08/06/96	23.66	23.66	6859360	0.00
08/07/96	26.63	26.63	6897700	0.00
08/08/96	23.89	23.89	6932100	0.00
08/09/96	26.56	26.56	6970350	0.00
08/10/96	26.56	26.56	7008600	0.00
08/11/96	26.56	26.56	7046850	0.00
08/12/96	15.00	15.00	7054140	0.00
08/13/96	25.95	25.95	7091510	0.00
08/14/96	26.43	26.43	7129570	0.00
08/15/96	25.67	25.67	7166530	0.00
08/16/96	25.00	25.00	7202530	0.00
08/17/96	25.00	25.00	7238530	0.00
08/18/96	25.00	25.00	7274530	0.00
08/19/96	12.72	12.72	7292850	0.00
08/20/96	24.74	24.74	7328470	0.00
08/21/96	25.47	25.47	7365140	0.00
08/22/96	26.29	26.29	7403000	0.00
08/23/96	26.22	26.22	7440760	0.00
08/24/96	26.22	26.22	7478520	0.00
08/25/96	26.22	26.22	7516280	0.00
08/26/96	12.50	12.50	7522146	0.00
08/27/96	23.28	23.28	7555670	0.00
08/28/96	25.66	25.66	7592625	0.00
08/29/96	25.66	25.66	7629580	0.00
08/30/96	24.21	24.21	7664440	0.00
08/31/96	24.21	24.21	7699300	0.00
09/01/96				
AVERAGE:	23.85	23.85		0.00
TOTAL (2):			1003700	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
8/1/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
8/2/96	0	0	0	0	0	3.44	0	1.72	0	1.72	6.88
8/3/96	0	0	0	0	1.72	3.44	0	0	0	0	5.16
8/4/96	0	0	0	0	0	3.44	0	0	0	1.72	5.16
8/5/96	1.72	0	0	0	0	3.44	0	0	1.72	0	6.88
8/6/96	0	0	0	0	1.72	3.44	0	1.72	0	1.72	8.60
8/7/96	0	0	1.72	0	0	3.44	0	0	0	1.72	6.88
8/8/96	1.72	0	0	0	1.72	3.44	0	1.72	0	0	8.60
8/9/96	0	0	0	0	1.72	3.44	0	0	0	1.72	6.88
8/10/96	1.72	0	0	0	1.72	3.44	0	1.72	0	1.72	10.32
8/11/96	0	0	0	0	0	3.44	0	0	0	0	3.44
8/12/96	1.72	0	1.72	0	1.72	3.44	0	1.72	0	0	10.32
8/13/96	0	0	0	0	0	1.72	0	0	0	1.72	3.44
8/14/96	0	0	0	0	0	0	0	0	0	0	0.00
8/15/96	1.72	0	0	0	1.72	1.72	0	0	0	1.72	6.88
8/16/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
8/17/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
8/18/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
8/19/96	1.72	0	0	0	0	1.72	0	0	0	0	3.44
8/20/96	1.72	0	0	0	0	0	0	0	0	0	1.72
8/21/96	1.72	0	0	0	0	1.72	0	0	0	0	3.44
8/22/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
8/23/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
8/24/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
8/25/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
8/26/96	0	0	0	0	0	0	0	0	0	0	0.00
8/27/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
8/28/96	1.72	0	0	0	0	0	0	0	0	0	1.72
8/29/96	0	0	0	0	0	0	0	0	0	0	0.00
8/30/96	1.72	0	0	0	0	0	0	0	0	0	1.72
8/31/96	0	0	0	0	0	0	0	0	0	0	0.00
Total:	32.68	0.00	3.44	0.00	12.04	55.04	0.00	24.08	1.72	13.76	142.76

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

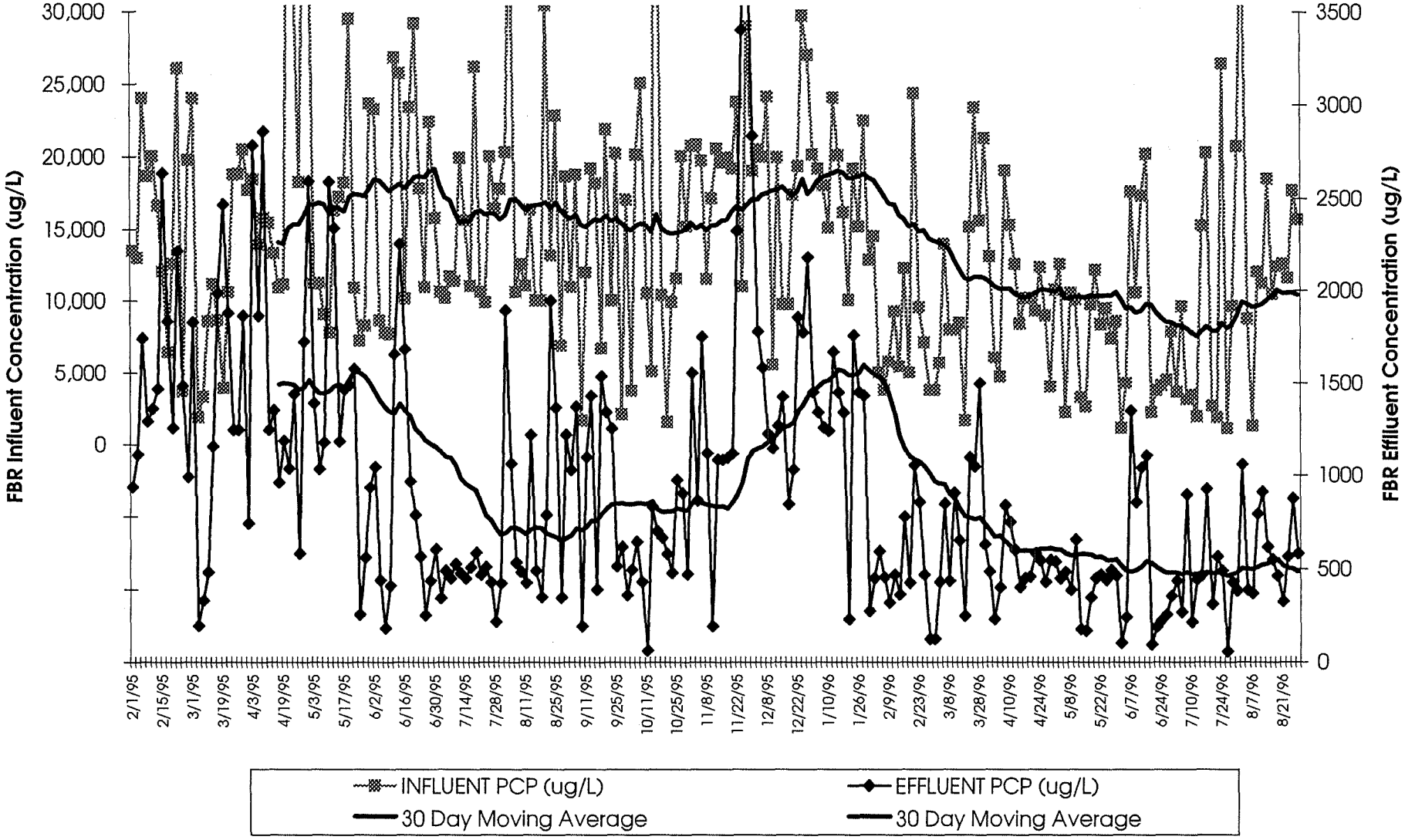
Well	June 27, 1996		July 31, 1996		August 28, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1164.55	-----	1164.31	-----	1164.07
PW02	-----	1164.60	-----	1164.50	-----	1164.19
PW03	-----	1164.17	0.01	1164.39	-----	1164.05
PW3S	-----	1161.46	-----	1161.21	-----	-----
PW04	0.10	1159.10	0.20	1157.50	2.66	1152.42
PW05	0.20	1157.03	0.10	1156.33	0.06	1154.72
PW06	0.40	1163.74	0.42	1163.59	-----	-----
PW07	0.10	1159.10	-----	1158.50	0.07	1157.41
PW08	-----	1161.62	-----	1161.47	-----	-----
PW9I	-----	1160.58	-----	1160.38	-----	1161.49
PW9O	-----	1163.54	-----	1163.34	-----	1162.87
PW10	0.05	1161.46	1.40	1159.66	0.52	1160.36
PW11	0.30	1160.75	0.20	1161.75	0.16	1161.05
PW12	-----	1164.56	-----	1164.41	-----	1164.08
PW13	0.20	1161.40	0.80	1160.50	0.87	1159.82
PW14	-----	1162.63	-----	1162.52	-----	-----
PW15	0.03	1159.06	-----	1156.23	-----	1159.00
PW16	0.10	1162.58	1.20	1161.28	0.12	1161.60
P01	0.20	1163.01	0.66	1162.75	0.74	1162.08
OW01	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01A	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01B	-----	1165.02	-----	1164.84	-----	1164.57
W02	-----	1162.71	-----	1163.94	-----	1163.61
W03A	-----	1162.93	-----	1162.30	-----	1161.93
W03B	-----	1162.58	0.01	1162.15	-----	1161.91
W04A	0.77	1163.48	0.86	1163.02	0.77	1162.66
W04B	1.37	1163.01	1.29	1162.69	1.00	1162.49
W05	0.10	1163.28	0.22	1163.00	0.75	1162.09
W06R	-----	1164.83	-----	1164.76	-----	1164.38
W07	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W08	-----	1174.97	-----	1175.17	-----	1174.39
W09	-----	1163.35	-----	1163.04	-----	1162.72
W10A	-----	1161.60	-----	1161.18	-----	1161.04
W10B	-----	1161.59	-----	1161.29	-----	1161.09
W11	-----	1161.51	-----	1161.13	-----	1160.95
W12	-----	1160.95	-----	1160.63	-----	1160.50
W13	-----	1162.36	-----	1161.81	-----	1161.51
W14	-----	1159.86	-----	1159.56	-----	1159.60
W16	-----	1163.59	-----	1162.90	-----	1162.55
W17	0.53	1157.54	0.11	1157.18	0.25	1156.70
W18	-----	1161.46	-----	1161.27	-----	1161.08
W19	-----	1164.63	-----	1164.26	-----	1164.02

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

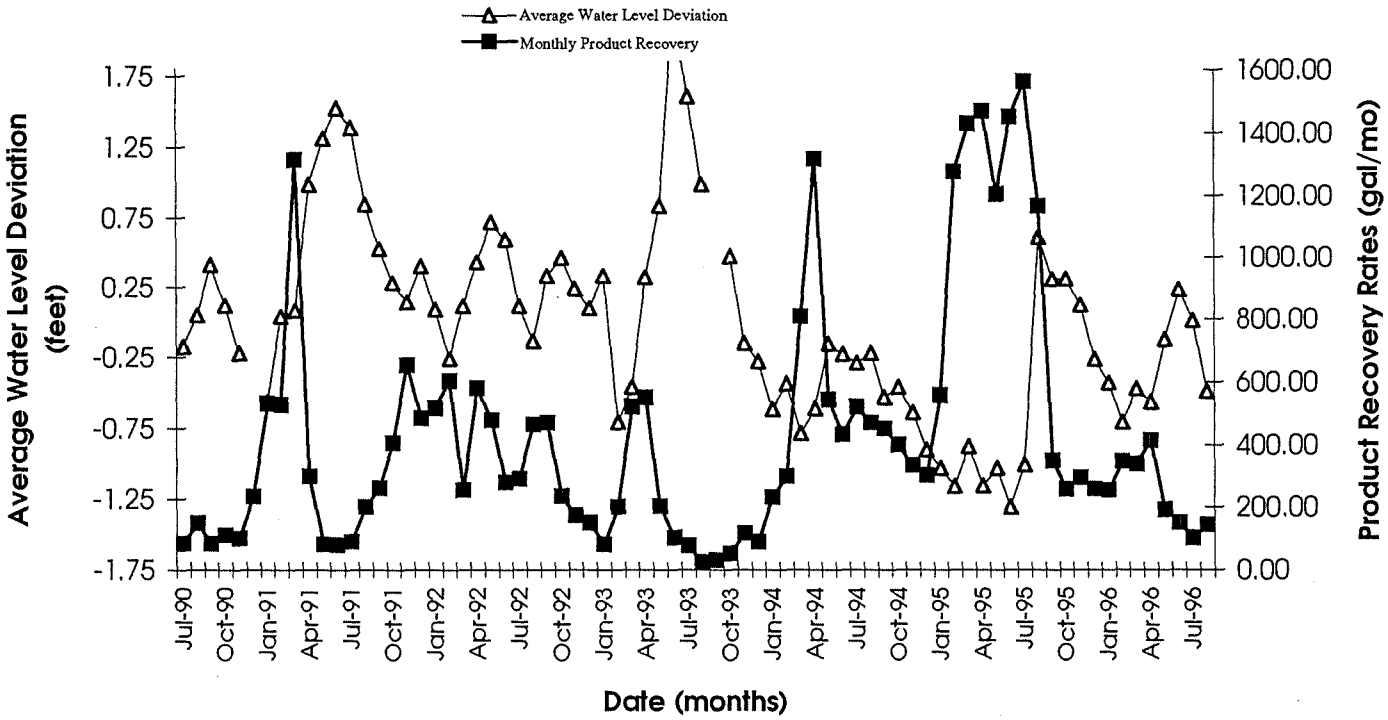
Well	June 27, 1996		July 31, 1996		August 28, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1161.08	-----	1160.88	-----	1160.76
W22	-----	1163.13	-----	1162.41	-----	1162.17
W23	-----	1161.12	-----	1160.90	-----	1160.78
W24A	-----	1161.04	-----	1160.85	-----	1160.74
W25	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W26	-----	1161.45	-----	1161.17	-----	1160.99
W27	-----	1162.92	-----	1162.20	-----	1161.88
W28	-----	1161.38	-----	1161.20	-----	1160.99
W29	-----	1161.12	-----	1160.98	-----	1160.83
W30	1.21	1162.31	1.04	1162.36	0.92	1161.74
W31	-----	1160.96	-----	1160.93	-----	1160.82
W32	-----	1160.45	-----	1160.93	-----	1160.82
W33	-----	1158.65	-----	1158.46	-----	1158.04
W34	0.01	1160.51	0.08	1160.03	0.02	1159.63
W35	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W36	-----	1163.83	-----	1163.50	-----	1163.10
W39	-----	1158.90	-----	1157.53	-----	1158.05
W40	0.68	1161.91	0.68	1161.79	0.62	1161.29
W41	-----	1163.99	-----	1163.84	-----	1163.22
W42	0.12	1164.42	0.13	1159.09	0.13	1158.68
W44	0.17	1163.49	0.07	1163.36	0.11	1162.77
W45	-----	1164.08	-----	1163.76	-----	1163.35
W46	0.69	1162.89	0.73	1162.61	0.80	1162.01
W47	1.72	1157.86	1.31	1157.89	1.23	1157.51
W48	0.78	1159.19	0.75	1158.64	0.98	1158.09
W49	0.01	1159.85	0.01	1159.25	-----	1158.89
W66	-----	1164.66	0.01	1164.56	-----	1164.20
W67	-----	1164.67	-----	1164.45	-----	1164.16
W68A	-----	1164.58	-----	1164.50	-----	1164.17
W68B	-----	1164.58	-----	1164.47	-----	1164.06
W69	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W70B	-----	1158.27	-----	1158.27	-----	Inaccessible
River	-----	1161.04	-----	1160.99	-----	Gauge damaged

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



J:\WAULECO\ONM96\AUG\MNTLY.XLS\FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



J:\WAULECO\ONM96\AUG\MNTLY.XLS
9/19/96

9/4/96

MONTGOMERY WATSON

ERP #6

September 4, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: July Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the July Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman (JMR)
John D. Dadisman
Environmental Chemist

Douglas J. Bach (JMR)
Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/djd/JDD/DJB
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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JULY 1996

SUMMARY OF JULY 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period. The result for a laboratory sample collected on July 25 confirmed that the effluent PCP concentration was less than 10 ug/L.

PCP influent concentrations ranged from 1,136 ug/L to 26,435 ug/L during July 1996 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent and effluent concentrations remained steady during this reporting period, and treatment efficiency within the FBR averaged 90%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

We are currently coordinating efforts with the City of Wausau POTW to identify potential infiltration into the sewer system in the vicinity of the Wauleco property.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels and total product recovery decreased during July. Product recovery for July was 100 gal compared to 148 gal recovered during June. The product recovery decreased at wells PW4, PW7, PW13, and PW16 and increased at wells PW10, PW11, and PW15.

Groundwater Monitoring

Groundwater elevation and product thickness data for May, June, and July are summarized in Table 4. Annual groundwater monitoring was conducted in July. The results will be presented in a separate report.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system was shut down on July 21 to conduct a respirometry test to evaluate the biodegradation kinetics.

JMR/djd/JDD/DJB
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TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)	20-JUN-96	< .25	< .25	< .25
#6 Fuel Oil (mg/L)	20-JUN-96	< 1	< 1	< 1
Chemical Oxygen Demand (mg/L)	20-JUN-96	53	33	< 20
	26-JUN-96	80	40	0
	15-JUL-96	70	40	10
Chloride (mg/L)	20-JUN-96	94	103	102
Dissolved Oxygen (mg/L)	21-JUN-96	9	4.6	1
	24-JUN-96	9	4.8	.8
	26-JUN-96	9	4.7	.9
	28-JUN-96	8.8	4.5	.5
	01-JUL-96	6.8	4.8	1.3
	03-JUL-96	8.4	5.2	1.3
	05-JUL-96	9	4.5	.8
	10-JUL-96	8.4	5	.7
	12-JUL-96	8.2	6.1	.8
	15-JUL-96	8.2	5	.8
	17-JUL-96	8.4	4.2	.8
	19-JUL-96	9	5.2	.9
	22-JUL-96	8.7	4.6	.9
	24-JUL-96	8.2	7.4	.4
	26-JUL-96	8.2	4.7	.7
	29-JUL-96	8.9	4.8	.8
	31-JUL-96	8.9	4.5	.8
Gasoline (mg/L)	20-JUN-96	< .25	< .25	< .25
Kerosene (mg/L)	20-JUN-96	< .25	< .25	< .25
Mineral Spirits (mg/L)	20-JUN-96	.92	< .25	< .25

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Ammonia (mg/L)				
	21-JUN-96	3	1	
	24-JUN-96	3	1	
	26-JUN-96	3	0	
	28-JUN-96	3	0	
	01-JUL-96	3	0	
	03-JUL-96	3	1	
	05-JUL-96	3	1	
	10-JUL-96	3	1	
	12-JUL-96	3	1	
	15-JUL-96	3	1	
	17-JUL-96	3	1	
	19-JUL-96	3	0	
	22-JUL-96	3	0	
	24-JUL-96	3	0	
	26-JUL-96	3	1	
	29-JUL-96	3	0	
	31-JUL-96	3	0	
Nitrogen, Nitrate (mg/L)				
	21-JUN-96	.2	1	
	24-JUN-96	.2	1	
	26-JUN-96	.2	1	
	28-JUN-96	.2	.9	
	01-JUL-96	.2	1	
	03-JUL-96	.4	1	
	05-JUL-96	.3	.9	
	10-JUL-96	.1	.8	
	12-JUL-96	.1	.4	
	15-JUL-96	.1	1.2	
	17-JUL-96	.1	1	
	19-JUL-96	.2	1	
	22-JUL-96	.2	1.2	
	24-JUL-96	.2	1.4	
	26-JUL-96	.1	1	
	29-JUL-96	.2	1.1	
	31-JUL-96	.3	1.2	
Nitrogen, Nitrate + Nitrite (mg/L)				
	20-JUN-96	.25	1.88	1.77
Nitrogen, Total Kjeldahl (mg/L)				
	20-JUN-96	2.92	1.37	.2
Oil and Grease (mg/L)				
	20-JUN-96	11	1	< 1

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	20-JUN-96			0
	21-JUN-96	3750	188	0
	22-JUN-96			0
	23-JUN-96			0
	24-JUN-96	4125	225	0
	25-JUN-96			0
	26-JUN-96	4500	255	1
	27-JUN-96			0
	28-JUN-96	7854	355	0
	29-JUN-96			0
	30-JUN-96			0
	01-JUL-96	3660	434	0
	02-JUL-96			0
	03-JUL-96	9617	268	1
	04-JUL-96			1
	05-JUL-96	3149	894	1
	06-JUL-96			0
	07-JUL-96			1
	08-JUL-96			0
	09-JUL-96			1
	10-JUL-96	3404	213	1
	11-JUL-96			0
	12-JUL-96	1923	443	0
	13-JUL-96			0
	14-JUL-96			1
	15-JUL-96	15231	465	1
	16-JUL-96			0
	17-JUL-96	20262	925	0
	18-JUL-96			0
	19-JUL-96	2703	311	1
	20-JUL-96			0
	21-JUL-96			1
	22-JUL-96	1892	566	0
	23-JUL-96			0
	24-JUL-96	26435	490	0
	25-JUL-96			0
	26-JUL-96	1136	57	0
	27-JUL-96			1
	28-JUL-96			0
	29-JUL-96	9600	431	0
	30-JUL-96			0
	31-JUL-96	20690	382	0
Phosphorus, Ortho (mg/L)				
	20-JUN-96	1.2	1.02	1.04

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Phosphorus, Phosphate (mg/L)				
	21-JUN-96	3	1	
	24-JUN-96	3	1	
	26-JUN-96	2	2	
	28-JUN-96	3	2	
	01-JUL-96	3	2	
	03-JUL-96	1	.4	
	05-JUL-96	1	.2	
	10-JUL-96	4	2	
	12-JUL-96	4	3	
	15-JUL-96	3	2	
	17-JUL-96	4	3	
	19-JUL-96	2	2	
	22-JUL-96	3	2	
	24-JUL-96	2	2	
	26-JUL-96	3	1	
	29-JUL-96	3	1	
	31-JUL-96	2	1	
Solids, Total Suspended (mg/L)				
	20-JUN-96	6	20	< 2
pH (S.U.)				
	20-JUN-96	6.7	6.83	6.83
	21-JUN-96	6.6	6.7	6.3
	24-JUN-96	6.6	6.7	6.5
	26-JUN-96	6.6	6.7	6.6
	28-JUN-96	6.7	6.7	6.6
	01-JUL-96	6.5	6.8	6.6
	03-JUL-96	6.7	6.5	6.3
	05-JUL-96	6.8	6.6	6.6
	10-JUL-96	6.6	6.9	6.8
	12-JUL-96	6.3	6.7	6.4
	15-JUL-96	6.5	6.6	6.5
	17-JUL-96	6.8	6.6	6.5
	19-JUL-96	6.6	6.7	6.6
	22-JUL-96	6.7	6.8	6.7
	24-JUL-96	6.4	6.5	6.4
	26-JUL-96	6.8	6.5	6.6
	29-JUL-96	6.8	6.7	6.7
	31-JUL-96	6.8	6.6	6.7

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
20-JUN-96	2,3,4,6-Tetrachlorophenol (ug/L)	< 10000	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	< 10000	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	< 10000	< 10	< 10
	2,4-Dichlorophenol (ug/L)	< 10000	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 10000	< 10	< 10
	2,4-Dinitrophenol (ug/L)	< 20000	< 20	< 20
	2,6-Dichlorophenol (ug/L)	< 10000	< 10	< 10
	2-Chlorophenol (ug/L)	< 10000	< 10	< 10
	2-Methylphenol (ug/L)	< 10000	< 10	< 10
	2-Nitrophenol (ug/L)	< 10000	< 10	< 10
	3&4-Methylphenol (ug/L)	< 20000	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	< 10000	< 10	< 10
	4-Chloro-3-methylphenol (ug/L)	< 10000	< 10	< 10
	4-Nitrophenol (ug/L)	< 20000	< 20	< 20
	Dinoseb (ug/L)	< 10000	< 10	< 10
	Pentachlorophenol (ug/L)	7600	35	< 1
	Phenol (ug/L)	< 10000	< 10	< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
07/01/96	23.00	23.00	5676580	0.00
07/02/96	23.00	23.00	5709700	0.00
07/03/96	30.00	30.00	5761080	0.00
07/04/96	30.00	30.00	5804280	0.00
07/05/96	30.00	30.00	5847480	0.00
07/06/96	30.00	30.00	5890680	0.00
07/07/96	25.00	25.00	5912010	0.00
07/08/96	26.00	26.00	5949780	0.00
07/09/96	26.00	26.00	5979780	0.00
07/10/96	26.00	26.00	6017220	0.00
07/11/96	26.00	26.00	6054660	0.00
07/12/96	26.00	26.00	6092100	0.00
07/13/96	17.99	17.99	6118000	0.00
07/14/96	11.81	11.81	6135000	0.00
07/15/96	15.23	15.23	6138860	0.00
07/16/96	19.33	19.33	6166700	0.00
07/17/96	24.75	24.75	6202340	0.00
07/18/96	22.24	22.24	6234360	0.00
07/19/96	25.80	25.80	6271510	0.00
07/20/96	25.80	25.80	6308660	0.00
07/21/96	25.80	25.80	6345810	0.00
07/22/96	25.80	25.80	6382960	0.00
07/23/96	15.92	15.92	6405880	0.00
07/24/96	27.05	27.05	6444830	0.00
07/25/96	27.05	27.05	6483780	0.00
07/26/96	27.05	27.05	6522730	0.00
07/27/96	15.47	15.47	6545000	0.00
07/28/96	16.58	16.58	6568900	0.00
07/29/96	24.19	24.19	6592760	0.00
07/30/96	24.19	24.19	6627600	0.00
07/31/96	22.08	22.08	6659400	0.00
AVERAGE:	23.71	23.71		0.00
TOTAL (2):			982820	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
7/1/96	0	0	1.72	0	0	0	0	0	0	0	1.72
7/2/96	0	0	0	0	0	1.72	0	0	0	0	1.72
7/3/96	0	0	0	0	0	0	0	0	0	0	0.00
7/4/96	0	0	0	0	0	0	0	1.72	1.72	0	3.44
7/5/96	1.72	0	0	0	0	1.72	0	0	0	0	3.44
7/6/96	0	0	0	0	0	0	0	0	0	0	0.00
7/7/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
7/8/96	0	0	0	0	0	1.72	0	0	0	0	1.72
7/9/96	0	0	0	0	0	0	0	0	1.72	0	1.72
7/10/96	0	0	1.72	0	0	1.72	0	0	0	0	3.44
7/11/96	0	0	0	0	0	0	0	0	0	1.72	1.72
7/12/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
7/13/96	1.72	0	0	0	0	0	0	0	0	0	1.72
7/14/96	0	0	0	0	0	0	0	0	1.72	0	1.72
7/15/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
7/16/96	0	0	1.72	0	0	0	0	0	0	0	1.72
7/17/96	0	0	0	0	1.72	1.72	0	0	0	0	3.44
7/18/96	0	0	0	0	0	3.44	0	0	0	0	3.44
7/19/96	0	0	0	0	0	1.72	0	0	0	1.72	3.44
7/20/96	1.72	0	0	0	1.72	1.72	0	0	0	0	5.16
7/21/96	0	0	0	0	0	3.44	0	0	0	0	3.44
7/22/96	0	0	1.72	0	1.72	3.44	0	0	1.72	0	8.60
7/23/96	0	0	0	0	0	3.44	0	1.72	0	0	5.16
7/24/96	0	0	0	0	0	1.72	0	0	0	0	1.72
7/25/96	0	0	0	0	0	1.72	0	0	0	0	1.72
7/26/96	0	0	0	0	0	1.72	0	0	0	1.72	3.44
7/27/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
7/28/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
7/29/96	0	0	0	0	0	1.72	0	1.72	1.72	1.72	6.88
7/30/96	0	1.72	1.72	0	0	3.44	0	1.72	0	1.72	10.32
7/31/96	0	0	0	0	0	0	0	0	0	0	0.00
Total:	6.88	1.72	8.60	0.00	5.16	44.72	0.00	15.48	8.60	8.60	99.76

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

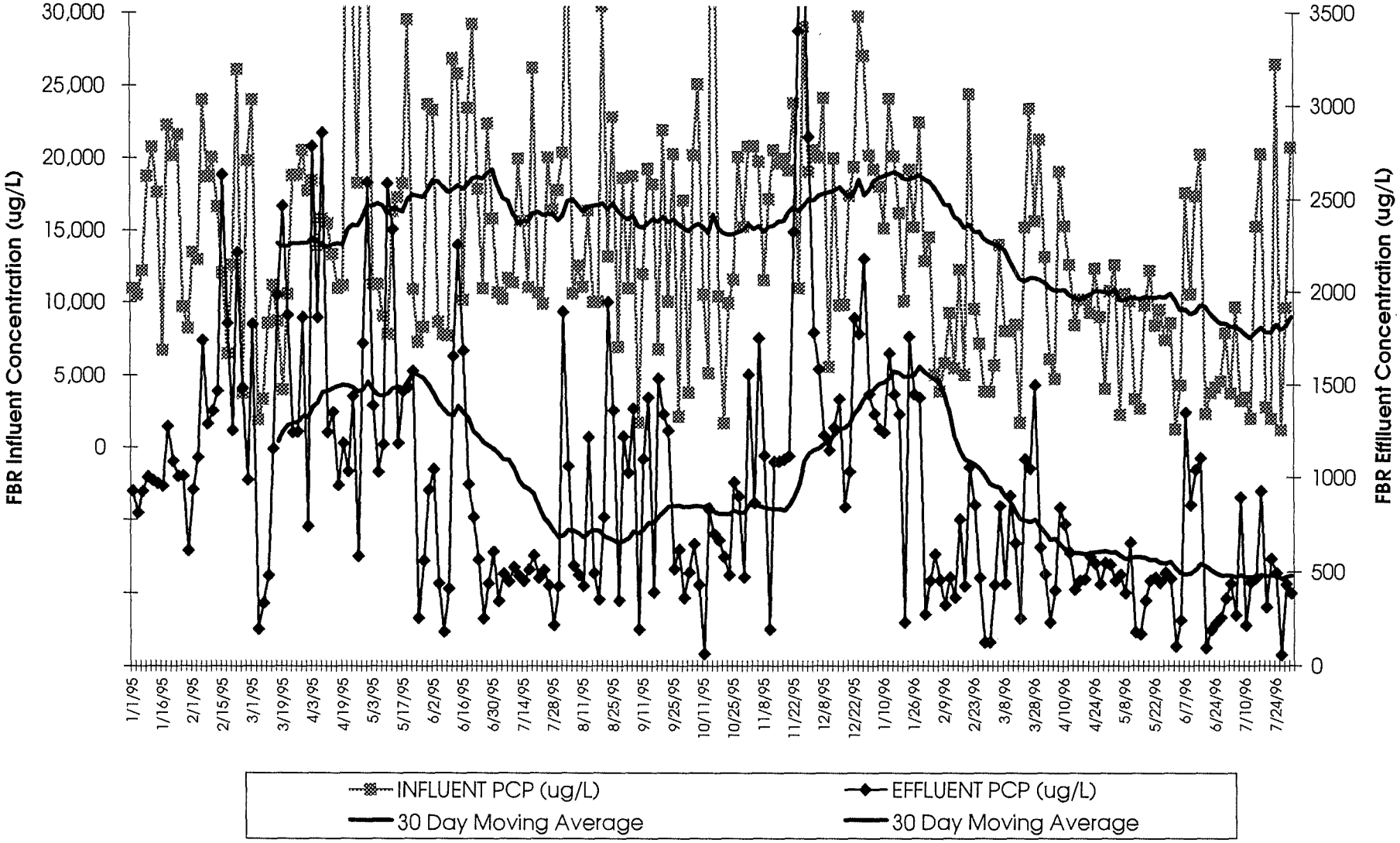
Well	May 30, 1996		June 27, 1996		July 31, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1164.33	-----	1164.55	-----	1164.31
PW02	-----	1164.30	-----	1164.60	-----	1164.50
PW03	-----	1164.13	-----	1164.17	0.01	1164.39
PW3S	-----	1161.21	-----	1161.46	-----	1161.21
PW04	0.10	1158.50	0.10	1159.10	0.20	1157.50
PW05	0.20	1156.83	0.20	1157.03	0.10	1156.33
PW06	0.40	1163.49	0.40	1163.74	0.42	1163.59
PW07	0.20	1158.80	0.10	1159.10	-----	1158.50
PW08	-----	1161.37	-----	1161.62	-----	1161.47
PW9I	-----	1160.48	-----	1160.58	-----	1160.38
PW9O	-----	1163.31	-----	1163.54	-----	1163.34
PW10	-----	1160.96	0.05	1161.46	1.40	1159.66
PW11	0.30	1160.15	0.30	1160.75	0.20	1161.75
PW12	-----	1164.21	-----	1164.56	-----	1164.41
PW13	0.60	1160.50	0.20	1161.40	0.80	1160.50
PW14	-----	1162.47	-----	1162.63	-----	1162.52
PW15	-----	1153.96	0.03	1159.06	-----	1156.23
PW16	0.20	1162.18	0.10	1162.58	1.20	1161.28
P01	0.68	1162.51	0.20	1163.01	0.66	1162.75
OW01	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01A	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01B	-----	1164.59	-----	1165.02	-----	1164.84
W02	-----	1163.53	-----	1162.71	-----	1163.94
W03A	-----	1162.32	-----	1162.93	-----	1162.30
W03B	-----	1162.19	-----	1162.58	0.01	1162.15
W04A	0.65	1163.31	0.77	1163.48	0.86	1163.02
W04B	1.00	1162.98	1.37	1163.01	1.29	1162.69
W05	0.07	1163.08	0.10	1163.28	0.22	1163.00
W06R	-----	1164.49	-----	1164.83	-----	1164.76
W07	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W08	-----	1174.79	-----	1174.97	-----	1175.17
W09	-----	1162.80	-----	1163.35	-----	1163.04
W10A	-----	1161.22	-----	1161.60	-----	1161.18
W10B	-----	1161.25	-----	1161.59	-----	1161.29
W11	-----	1161.14	-----	1161.51	-----	1161.13
W12	-----	1160.68	-----	1160.95	-----	1160.63
W13	-----	1161.73	-----	1162.36	-----	1161.81
W14	-----	1159.67	-----	1159.86	-----	1159.56
W16	-----	1163.04	-----	1163.59	-----	1162.90
W17	0.16	1157.23	0.53	1157.54	0.11	1157.18
W18	-----	1161.14	-----	1161.46	-----	1161.27
W19	-----	1161.54	-----	1164.63	-----	1164.26

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

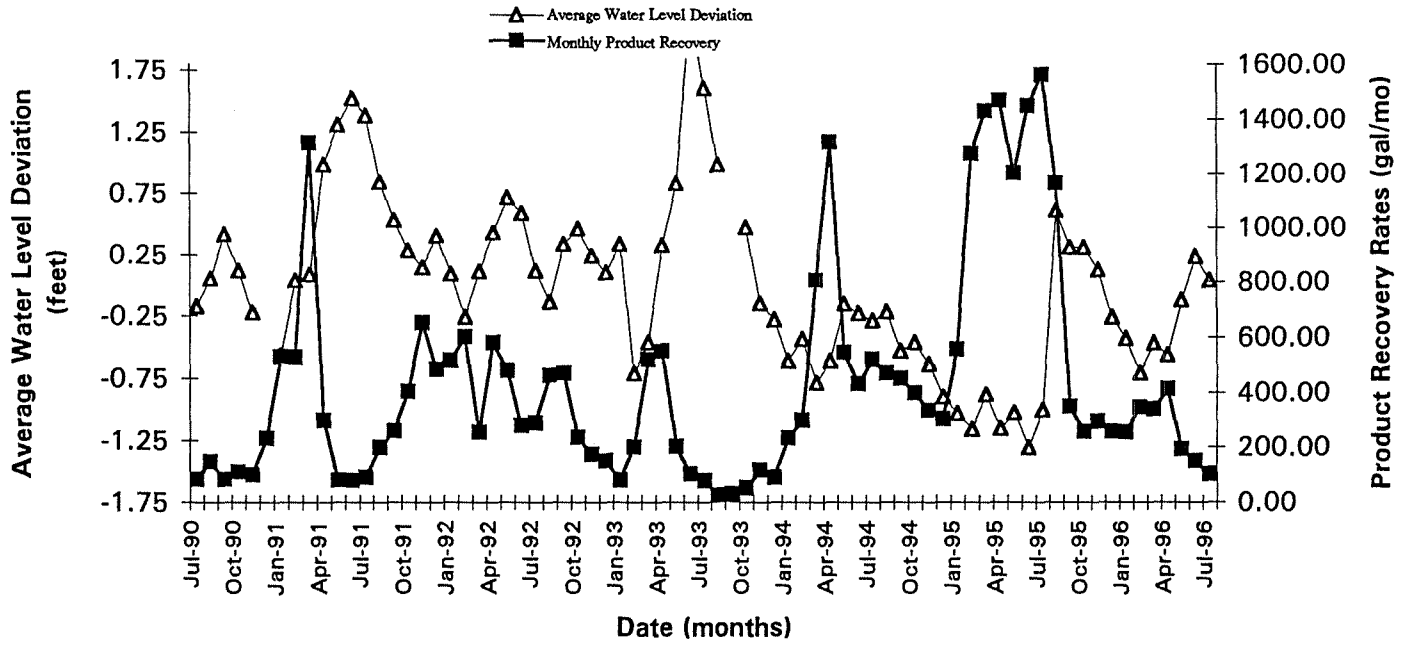
Well	May 30, 1996		June 27, 1996		July 31, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1160.83	-----	1161.08	-----	1160.88
W22	-----	1162.43	-----	1163.13	-----	1162.41
W23	-----	1160.90	-----	1161.12	-----	1160.90
W24A	-----	1160.86	-----	1161.04	-----	1160.85
W25	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W26	-----	1161.16	-----	1161.45	-----	1161.17
W27	-----	1162.31	-----	1162.92	-----	1162.20
W28	-----	1161.04	-----	1161.38	-----	1161.20
W29	-----	1160.91	-----	1161.12	-----	1160.98
W30	1.20	1161.84	1.21	1162.31	1.04	1162.36
W31	-----	1160.85	-----	1160.96	-----	1160.93
W32	-----	1160.85	-----	1160.45	-----	1160.93
W33	-----	1158.52	-----	1158.65	-----	1158.46
W34	0.05	1160.05	0.01	1160.51	0.08	1160.03
W35	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W36	-----	1163.43	-----	1163.83	-----	1163.50
W39	0.02	1158.50	-----	1158.90	-----	1157.53
W40	0.60	1161.69	0.68	1161.91	0.68	1161.79
W41	-----	1163.64	-----	1163.99	-----	1163.84
W42	-----	1164.32	0.12	1164.42	0.13	1159.09
W44	0.40	1162.93	0.17	1163.49	0.07	1163.36
W45	-----	1163.68	-----	1164.08	-----	1163.76
W46	0.75	1162.47	0.69	1162.89	0.73	1162.61
W47	1.60	1157.29	1.72	1157.86	1.31	1157.89
W48	0.95	1158.48	0.78	1159.19	0.75	1158.64
W49	-----	1159.26	0.01	1159.85	0.01	1159.25
W66	-----	1164.36	-----	1164.66	0.01	1164.56
W67	-----	1164.30	-----	1164.67	-----	1164.45
W68A	-----	1164.25	-----	1164.58	-----	1164.50
W68B	-----	1164.17	-----	1164.58	-----	1164.47
W69	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	1160.91	-----	1161.04	-----	1160.99

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



J:\WAULECO\ONM96\JULY\MNTLY.XLS\FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



6/28/96

MONTGOMERY WATSON

June 28, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: May Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the May Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John Dadisman (JMR)

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/djd/JDD/DJB
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4113.0040-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
MAY 1996

SUMMARY OF MAY 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period. Results for laboratory samples collected on April 25 and May 21 confirmed that the effluent PCP concentrations were less than 10 ug/L.

PCP influent concentrations ranged from 2,222 ug/L to 12,545 ug/L during May 1996 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent and effluent concentrations remained steady during this reporting period, and treatment efficiency within the FBR remains approximately 95%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels increased during May, and total product recovery for this month decreased. Product recovery for May was 191 gal compared to 411 gal recovered during April. The product recovery decreased at every well except PW10 and PW11.

Groundwater Monitoring

Groundwater elevation and product thickness data for March, April, and May are summarized in Table 4.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system continued normal operation during the month of May.

JMR/vlr/JDD/DJB
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4113.0040-MD

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Chemical Oxygen Demand (mg/L)				
	08-MAY-96	70	40	0
	29-MAY-96	70	40	0
Dissolved Oxygen (mg/L)				
	01-MAY-96	8.6	4.3	.4
	03-MAY-96	8.7	4	.5
	05-MAY-96	8.9	4.2	.5
	08-MAY-96	9	4	.5
	10-MAY-96	8.6	3.8	.5
	13-MAY-96	8.6	3.6	.5
	15-MAY-96	6	4.2	1
	17-MAY-96	6.6	4.2	.5
	20-MAY-96	8.7	4	.6
	22-MAY-96	9.4	5	.6
	24-MAY-96	9.3	5.2	.5
	29-MAY-96	8.6	5.1	.7
	31-MAY-96	8.8	5	.6
Nitrogen, Ammonia (mg/L)				
	01-MAY-96	4	0	
	03-MAY-96	4	0	
	05-MAY-96	4	0	
	08-MAY-96	4	0	
	10-MAY-96	3	0	
	13-MAY-96	3	0	
	15-MAY-96	3	0	
	17-MAY-96	3	0	
	20-MAY-96	4	0	
	22-MAY-96	4	0	
	24-MAY-96	4	0	
	29-MAY-96	3	0	
	31-MAY-96	3	0	
Nitrogen, Nitrate (mg/L)				
	01-MAY-96	3	3	
	03-MAY-96	3	3	
	05-MAY-96	3	3	
	08-MAY-96	3	3	
	10-MAY-96	3	3	
	13-MAY-96	3	3	
	15-MAY-96	3	3	
	17-MAY-96	3	3	
	20-MAY-96	3	3	
	22-MAY-96	3	3	
	24-MAY-96	3	3	
	29-MAY-96	3	3	
	31-MAY-96	3	3	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	01-MAY-96	10753	538	1
	02-MAY-96			0
	03-MAY-96	12545	450	0
	04-MAY-96			1
	05-MAY-96	2222	482	0
	06-MAY-96			1
	07-MAY-96			1
	08-MAY-96	10520	387	1
	09-MAY-96			0
	10-MAY-96	10074	654	1
	11-MAY-96			0
	12-MAY-96			0
	13-MAY-96	3273	177	1
	14-MAY-96			1
	15-MAY-96	2632	168	0
	16-MAY-96			0
	17-MAY-96	9756	346	2
	18-MAY-96			0
	19-MAY-96			1
	20-MAY-96	12150	450	1
	21-MAY-96			0
	22-MAY-96	8390	468	0
	23-MAY-96			1
	24-MAY-96	9450	440	0
	25-MAY-96			1
	26-MAY-96			0
	27-MAY-96			0
	28-MAY-96			2
	29-MAY-96	7380	493	2
	30-MAY-96			0
	31-MAY-96	8567	461	0
Phosphorus, Phosphate (mg/L)				
	01-MAY-96	.8	.3	
	03-MAY-96	1	.5	
	05-MAY-96	1	.5	
	08-MAY-96	1	.5	
	10-MAY-96	.5	.4	
	13-MAY-96	.8	.5	
	15-MAY-96	1.5	1	
	17-MAY-96	.8	.5	
	20-MAY-96	1	.7	
	22-MAY-96	2	2	
	24-MAY-96	2	1.5	
	29-MAY-96	1	.5	
	31-MAY-96	2	1	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
pH (S.U.)				
	01-MAY-96	6.7	6.6	6.8
	03-MAY-96	6.7	6.6	6.7
	05-MAY-96	6.7	6.6	6.8
	08-MAY-96	6.7	6.6	6.6
	10-MAY-96	6.5	6.6	6.5
	13-MAY-96	6.6	6.6	6.5
	15-MAY-96	6.2	6.6	6.6
	17-MAY-96	6.5	6.9	6.4
	20-MAY-96	6.6	6.7	6.7
	22-MAY-96	6.3	6.5	6.6
	24-MAY-96	6.4	6.5	6.6
	29-MAY-96	6.3	6.4	6.7
	31-MAY-96	6.8	6.7	6.6

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
25-APR-96	2,3,4,6-Tetrachlorophenol (ug/L)	< 1000	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	< 1000	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	< 1000	< 10	< 10
	2,4-Dichlorophenol (ug/L)	< 1000	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 1000	< 10	< 10
	2,4-Dinitrophenol (ug/L)	< 2000	< 20	< 20
	2,6-Dichlorophenol (ug/L)	< 1000	< 10	< 10
	2-Chlorophenol (ug/L)	< 1000	< 10	< 10
	2-Methylphenol (ug/L)	< 1000	< 10	< 10
	2-Nitrophenol (ug/L)	< 1000	< 10	< 10
	3&4-Methylphenol (ug/L)	< 2000	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	< 1000	< 10	< 10
	4-Chloro-3-methylphenol (ug/L)	< 1000	< 10	< 10
	4-Nitrophenol (ug/L)	< 2000	< 20	< 20
	Dinoseb (ug/L)	< 1000	< 10	< 13
	Pentachlorophenol (ug/L)	10000	55	< 1
	Phenol (ug/L)	< 1000	< 10	< 10
21-MAY-96	2,3,4,6-Tetrachlorophenol (ug/L)	< 100	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	200	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	300	< 10	< 10
	2,4-Dichlorophenol (ug/L)	< 100	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 100	< 10	< 10
	2,4-Dinitrophenol (ug/L)	< 200	< 20	< 20
	2,6-Dichlorophenol (ug/L)	< 100	< 10	< 10
	2-Chlorophenol (ug/L)	< 100	< 10	< 10
	2-Methylphenol (ug/L)	< 100	< 10	< 10
	2-Nitrophenol (ug/L)	< 100	< 10	< 10
	3&4-Methylphenol (ug/L)	< 200	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	< 100	< 10	< 10
	4-Chloro-3-methylphenol (ug/L)	< 100	< 10	< 10
	4-Nitrophenol (ug/L)	< 200	< 20	< 20
	Dinoseb (ug/L)	< 100	< 10	< 10
	Pentachlorophenol (ug/L)	9600	13	< 1
	Phenol (ug/L)	< 100	< 10	< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
05/01/96	28.50	28.50	3365700	0.00
05/02/96	27.70	27.70	3405590	0.00
05/03/96	28.59	28.59	3446760	0.00
05/04/96	28.55	28.55	3487870	0.00
05/05/96	28.55	28.55	3528980	0.00
05/06/96	28.05	28.05	3569370	0.00
05/07/96	28.05	28.05	3609760	0.00
05/08/96	31.39	31.39	3654960	0.00
05/09/96	28.55	28.55	3696070	0.00
05/10/96	29.94	29.94	3739190	0.00
05/11/96	29.94	29.94	3782310	0.00
05/12/96	29.94	29.94	3825430	0.00
05/13/96	23.82	23.82	3859730	0.00
05/14/96	23.82	23.82	3894030	0.00
05/15/96	15.10	15.10	3915780	0.00
05/16/96	17.60	17.60	3941130	0.00
05/17/96	31.76	31.76	3986870	0.00
05/18/96	31.76	31.76	4032610	0.00
05/19/96	31.76	31.76	4078350	0.00
05/20/96	15.03	15.03	4100000	0.00
05/21/96	12.73	12.73	4118330	0.00
05/22/96	31.08	31.08	4163080	0.00
05/23/96	30.01	30.01	4206290	0.00
05/24/96	30.35	30.35	4250000	0.00
05/25/96	30.35	30.35	4293710	0.00
05/26/96	30.35	30.35	4337420	0.00
05/27/96	30.35	30.35	4381130	0.00
05/28/96	13.10	13.10	4400000	0.00
05/29/96	20.26	20.26	4429170	0.00
05/30/96	27.07	27.07	4468150	0.00
05/31/96	29.95	29.95	4511280	0.00
AVERAGE:	26.58	26.58		0.00
TOTAL (2):			1145580	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
5/1/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
5/2/96	0	0	0	0	0	0	0	3.44	0	0	3.44
5/3/96	1.72	0	0	0	0	1.72	0	3.44	0	0	6.88
5/4/96	0	0	0	0	0	3.44	0	1.72	0	0	5.16
5/5/96	1.72	0	0	0	0	3.44	0	1.72	0	0	6.88
5/6/96	0	0	0	0	0	3.44	0	1.72	0	1.72	6.88
5/7/96	1.72	0	0	0	0	3.44	0	1.72	0	0	6.88
5/8/96	1.72	0	0	0	0	3.44	0	0	0	1.72	6.88
5/9/96	3.44	0	0	0	0	5.16	0	1.72	0	0	10.32
5/10/96	1.72	0	1.72	0	0	1.72	0	1.72	0	0	6.88
5/11/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
5/12/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
5/13/96	0	0	0	0	0	3.44	0	1.72	0	0	5.16
5/14/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
5/15/96	0	0	1.72	0	0	0	0	1.72	0	0	3.44
5/16/96	0	0	0	0	1.72	1.72	0	1.72	0	0	5.16
5/17/96	1.72	0	1.72	0	0	1.72	0	1.72	0	0	6.88
5/18/96	0	1.72	0	0	0	1.72	0	1.72	0	0	5.16
5/19/96	1.72	0	0	0	1.72	1.72	0	1.72	0	0	6.88
5/20/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
5/21/96	0	0	1.72	0	0	1.72	0	1.72	0	0	5.16
5/22/96	1.72	0	0	0	0	1.72	0	3.44	0	0	6.88
5/23/96	0	1.72	0	0	0	1.72	0	1.72	0	0	5.16
5/24/96	0	0	0	0	0	1.72	0	1.72	0	0	3.44
5/25/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
5/26/96	1.72	0	0	0	0	3.44	0	1.72	0	0	6.88
5/27/96	1.72	0	0	0	0	3.44	0	1.72	0	1.72	8.60
5/28/96	3.44	0	0	0	0	3.44	0	3.44	0	0	10.32
5/29/96	3.44	0	0	0	0	3.44	0	1.72	0	1.72	10.32
5/30/96	1.72	0	0	0	0	3.44	0	1.72	1.72	0	8.60
5/31/96	1.72	0	0	0	0	3.44	0	0	0	1.72	6.88
Total:	36.12	3.44	6.88	0.00	3.44	73.96	0.00	56.76	1.72	8.60	190.92

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

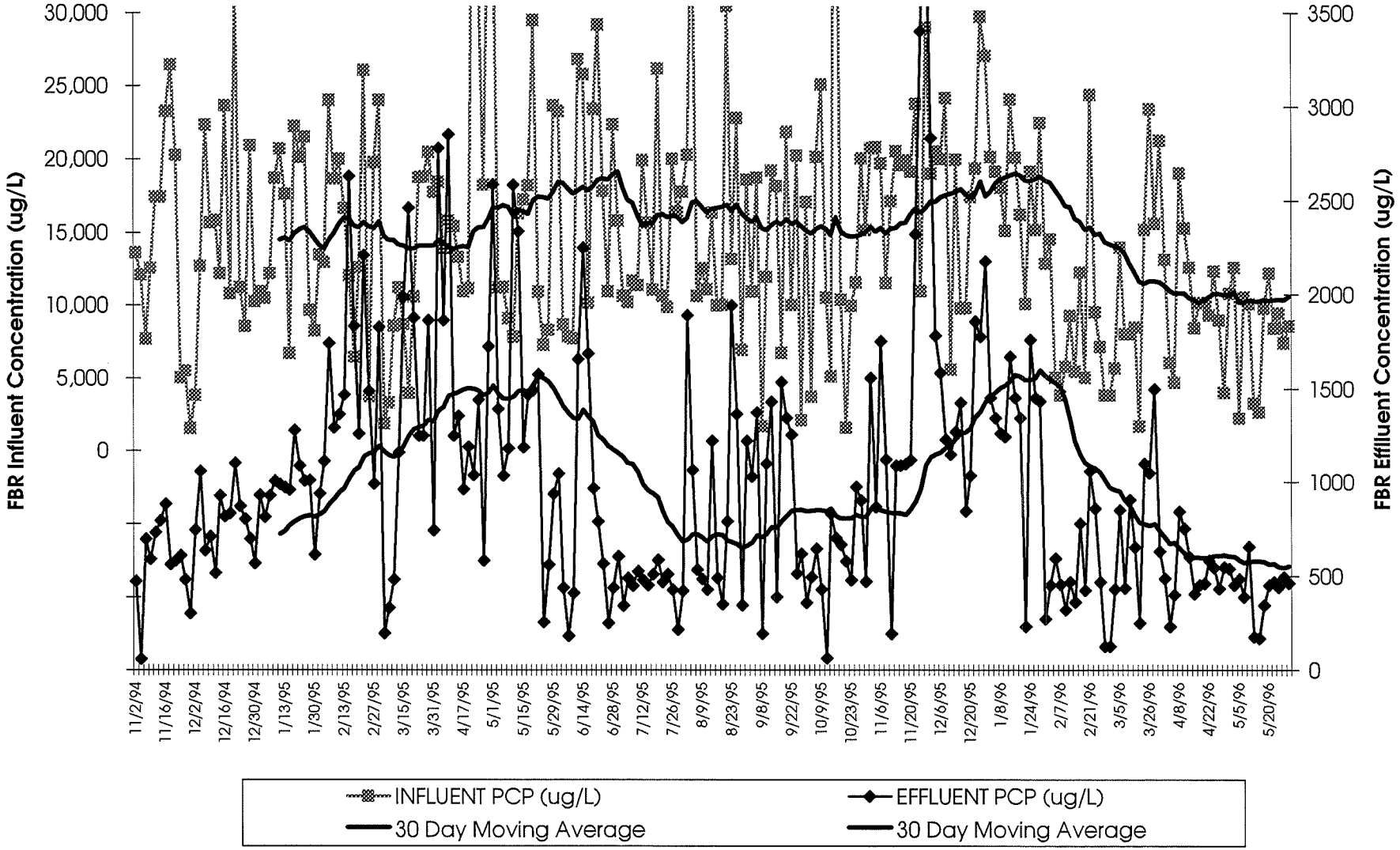
Well	March 28, 1996		April 30, 1996		May 30, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1163.32	-----	1163.35	-----	1164.33
PW02	-----	1163.25	-----	1163.20	-----	1164.30
PW03	-----	1163.18	-----	1164.23	-----	1164.13
PW3S	0.35	1161.16	-----	-----	-----	1161.21
PW04	0.60	1158.90	1.00	1158.80	0.10	1158.50
PW05	1.00	1155.28	0.25	1156.43	0.20	1156.83
PW06	0.40	1162.69	0.40	1162.64	0.40	1163.49
PW07	0.20	1159.20	0.90	1158.80	0.20	1158.80
PW08	0.10	1161.22	-----	-----	-----	1161.37
PW9I	-----	1160.58	-----	1160.38	-----	1160.48
PW9O	-----	1162.64	-----	1160.64	-----	1163.31
PW10	-----	1161.66	0.75	1160.51	-----	1160.96
PW11	0.05	1161.20	0.80	1160.95	0.30	1160.15
PW12	-----	1163.21	-----	1164.16	-----	1164.21
PW13	0.20	1160.00	0.50	1160.70	0.60	1160.50
PW14	-----	Frozen	-----	-----	-----	1147.76
PW15	0.70	1158.31	0.20	1161.11	-----	1153.96
PW16	0.10	1162.18	0.05	1162.83	0.20	1162.18
P01	0.40	1162.06	0.58	1162.61	0.68	1162.51
OW01	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01A	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W01B	-----	1163.59	-----	1164.49	-----	1164.59
W02	-----	1162.72	-----	1163.78	-----	1163.53
W03A	-----	1161.96	-----	1162.98	-----	1162.32
W03B	-----	1161.98	-----	1162.68	-----	1162.19
W04A	0.05	1163.01	0.59	1163.36	0.65	1163.31
W04B	0.60	1162.53	0.60	1163.34	1.00	1162.98
W05	0.25	1162.18	0.33	1162.87	0.07	1163.08
W06R	-----	1163.46	-----	1164.38	-----	1164.49
W07	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W08	-----	1170.75	-----	1173.75	-----	1174.79
W09	-----	1162.77	-----	1163.67	-----	1162.80
W10A	-----	1161.41	-----	1162.12	-----	1161.22
W10B	-----	1161.41	-----	1162.00	-----	1161.25
W11	-----	1161.34	-----	1161.75	-----	1161.14
W12	-----	1160.91	-----	1161.08	-----	1160.68
W13	-----	1162.03	-----	1162.72	-----	1161.73
W14	-----	1159.84	-----	1159.93	-----	1159.67
W16	-----	1162.85	-----	1163.49	-----	1163.04
W17	0.03	1156.97	0.86	1157.36	0.16	1157.23
W18	-----	1161.38	-----	1162.14	-----	1161.14
W19	-----	1163.49	-----	1164.47	-----	1161.54

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

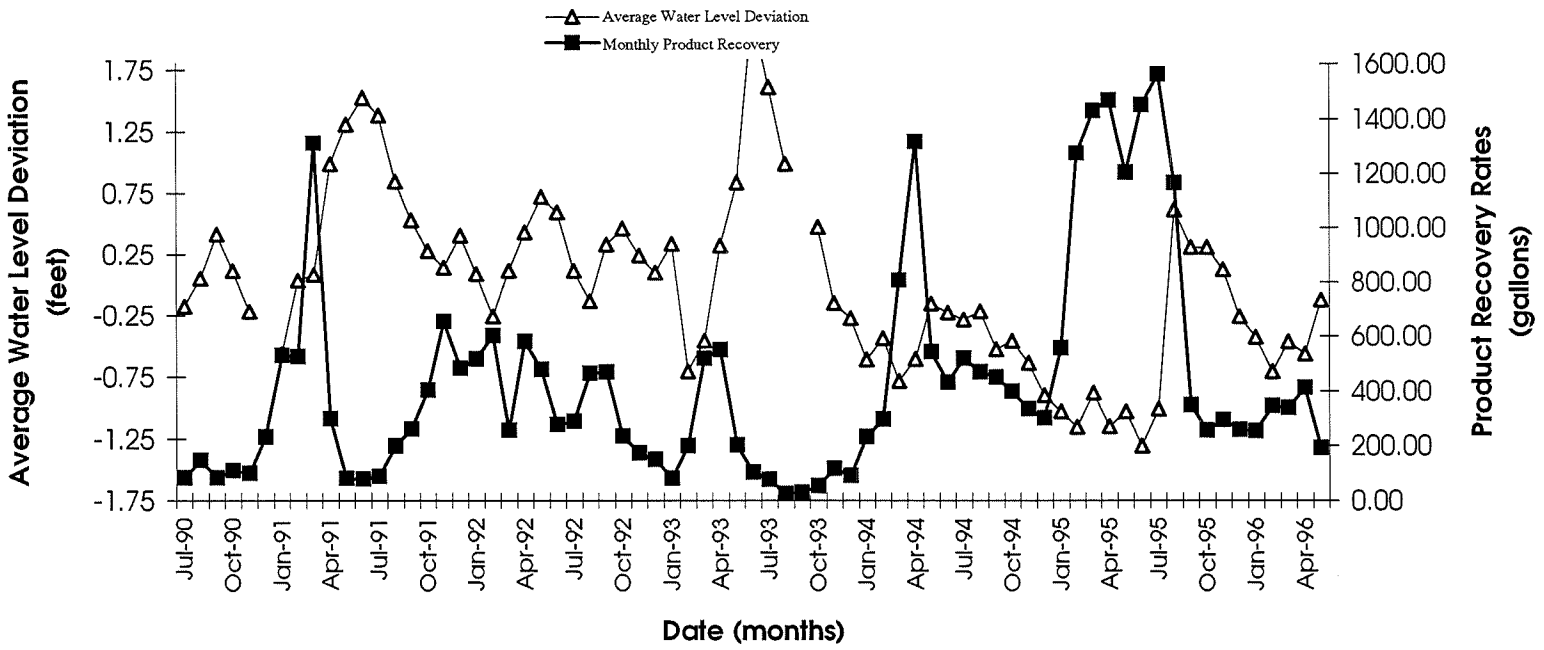
Well	March 28, 1996		April 30, 1996		May 30, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1161.18	-----	1161.46	-----	1160.83
W22	-----	1161.41	-----	1163.06	-----	1162.43
W23	-----	1161.11	-----	1161.20	-----	1160.90
W24A	-----	1161.04	-----	1161.13	-----	1160.86
W25	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W26	-----	1161.34	-----	1161.76	-----	1161.16
W27	-----	1162.29	-----	1162.87	-----	1162.31
W28	-----	1161.36	-----	1162.15	-----	1161.04
W29	-----	1161.17	-----	1161.64	-----	1160.91
W30	0.90	1161.49	1.49	1161.90	1.20	1161.84
W31	-----	1161.08	-----	1161.58	-----	1160.85
W32	-----	1161.09	-----	1161.59	-----	1160.85
W33	-----	1156.76	-----	1155.90	-----	1158.52
W34	-----	1159.35	-----	1157.86	0.05	1160.05
W35	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W36	-----	1162.54	-----	1163.34	-----	1163.43
W39	-----	Inaccessible	-----	Inaccessible	0.02	1158.50
W40	-----	Frozen	-----	-----	0.60	1161.69
W41	-----	Frozen	-----	-----	-----	1163.64
W42	0.20	1163.12	0.08	1164.07	-----	1164.32
W44	0.10	1162.53	0.60	1162.81	0.40	1162.93
W45	-----	1163.48	-----	1163.96	-----	1163.68
W46	0.55	1161.87	0.70	1162.50	0.75	1162.47
W47	0.80	1157.84	1.35	1158.01	1.60	1157.29
W48	0.20	1158.58	-----	1159.81	0.95	1158.48
W49	0.03	1158.91	-----	1159.81	-----	1159.26
W66	-----	1163.38	-----	1164.31	-----	1164.36
W67	-----	1163.35	-----	1164.27	-----	1164.30
W68A	0.05	1163.20	-----	1164.21	-----	1164.25
W68B	-----	1163.29	-----	1164.24	-----	1164.17
W69	-----	Inaccessible	-----	Inaccessible	-----	Inaccessible
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	Frozen	-----	-----	-----	1160.91

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



J:\WAULECO\ONM96\MAY\MNTLY.XLS\FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



5/15/96

MONTGOMERY WATSON

May 15, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

RECEIVED
Wis. Dept. of Natural Resources
MAY 16 1996
N. C. Dist. Hdqtrs.
Rhinelander, WI

Re: April Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the April Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/vlr/JDD/DJB
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4113.0040-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
APRIL 1996

SUMMARY OF APRIL 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations above 10 ug/L twice during the first week of April. However, laboratory analytical results from an effluent sample collected on April 5, 1996 indicated a PCP concentration of 7.2 ug/L. Screening results collected after April 8 also indicated that the PCP concentration had decreased below 10 ug/L. As discussed in the March report, the screening results above 10 ug/L were attributed to the carryover of PCP-contaminated carbon fines resulting from the addition of 2,000 lb of regenerated carbon to the Fluidized Bed Reactor (FBR) on March 18. In response to the exceedance event, the carbon in the four polishing units prior to the system discharge was changed out between April 11 and April 27. Results for laboratory samples collected on April 25 will be included with the next monthly status report.

PCP influent concentrations ranged from 4,000 ug/L to 19,048 ug/L during April 1996 (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent and effluent concentrations remained steady during this reporting period, and treatment efficiency remains approximately 90 to 95%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

Product Recovery

Product recovery data for the reporting period is presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels decreased during April, and total product recovery for this month increased. Product recovery for April was 411 gal compared to 337 gal recovered during March. The product recovery increased at wells PW7, PW11, PW13, PW15, and PW16 and decreased at PW4, PW5, and PW10.

Groundwater Monitoring

Groundwater elevation and product thickness data for February, March, and April are summarized in Table 4.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system continued normal operation during the month of April.

JMR/vlr/JDD/DJB
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4113.0040-MD

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Chemical Oxygen Demand (mg/L)				
	05-APR-96	75	30	5
	15-APR-96	60	40	5
	22-APR-96	75	50	0
Dissolved Oxygen (mg/L)				
	01-APR-96	9.2	4.6	2.5
	03-APR-96	8.2	5.4	3.4
	05-APR-96	9.5	4.3	3.5
	08-APR-96	9.5	5	3.7
	10-APR-96	8.5	5	3.5
	12-APR-96	9.7	4.5	3
	15-APR-96	8	4	.8
	17-APR-96	8.2	4.5	.8
	19-APR-96	8.5	4	.4
	22-APR-96	7.7	3.2	.4
	24-APR-96	6.8	4.6	.8
	26-APR-96	8.5	3.5	.5
	29-APR-96	7.8	3.2	.8
Nitrogen, Ammonia (mg/L)				
	01-APR-96	3	0	
	03-APR-96	4	1	
	05-APR-96	4	1	
	08-APR-96	4	1	
	10-APR-96	4	0	
	12-APR-96	3	1	
	15-APR-96	4	1	
	17-APR-96	4	1	
	19-APR-96	3	0	
	22-APR-96	3	0	
	24-APR-96	3	0	
	26-APR-96	4	0	
	29-APR-96	3	0	
Nitrogen, Nitrate (mg/L)				
	01-APR-96	3	3	
	03-APR-96	3	3	
	12-APR-96	3	3	
	15-APR-96	3	3	
	19-APR-96	3	3	
	22-APR-96	3	3	
	29-APR-96	3	3	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	01-APR-96	13091	485	24
	02-APR-96			9
	03-APR-96	6061	230	9
	04-APR-96			8
	05-APR-96	4693	400	7
	06-APR-96			7
	07-APR-96			8
	08-APR-96	19048	838	25
	09-APR-96			5
	10-APR-96	15260	750	5
	11-APR-96			6
	12-APR-96	12540	600	7
	13-APR-96			4
	14-APR-96			4
	15-APR-96	8421	404	4
	16-APR-96			2
	17-APR-96	10150	450	2
	18-APR-96			0
	19-APR-96	10150	458	1
	20-APR-96			0
	21-APR-96			0
	22-APR-96	9302	581	1
	23-APR-96			0
	24-APR-96	12301	542	0
	25-APR-96			0
	26-APR-96	8960	431	0
	27-APR-96			0
	28-APR-96			0
	29-APR-96	4000	546	0
	30-APR-96			0
Phosphorus, Phosphate (mg/L)				
	01-APR-96	.7	.5	
	03-APR-96	.5	.2	
	05-APR-96	.8	.5	
	08-APR-96	1	.5	
	10-APR-96	.8	.5	
	12-APR-96	.9	.5	
	15-APR-96	1	.3	
	17-APR-96	.7	.3	
	19-APR-96	.8	.3	
	22-APR-96	.8	.4	
	24-APR-96	.9	.3	
	26-APR-96	.9	.6	
	29-APR-96	.8	.3	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
pH (S.U.)				
	01-APR-96	6.4	6.5	6.5
	03-APR-96	6.5	6.8	6.7
	05-APR-96	6.6	6.7	6.7
	08-APR-96	6.8	6.8	6.7
	10-APR-96	6.8	6.7	6.7
	12-APR-96	6.7	6.7	6.8
	15-APR-96	6.5	6.65	6.5
	17-APR-96	6.5	6.7	6.8
	19-APR-96	6.7	6.8	6.8
	22-APR-96	6.7	6.8	6.8
	24-APR-96	6.7	6.9	6.9
	26-APR-96	6.7	6.8	6.7
	29-APR-96	6.4	6.7	6.6

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
05-APR-96	2,3,4,6-Tetrachlorophenol (ug/L)			< 10
	2,4,5-Trichlorophenol (ug/L)			< 10
	2,4,6-Trichlorophenol (ug/L)			< 10
	2,4-Dichlorophenol (ug/L)			< 10
	2,4-Dimethylphenol (ug/L)			< 10
	2,4-Dinitrophenol (ug/L)			< 20
	2,6-Dichlorophenol (ug/L)			< 10
	2-Chlorophenol (ug/L)			< 10
	2-Methylphenol (ug/L)			< 10
	2-Nitrophenol (ug/L)			< 10
	3&4-Methylphenol (ug/L)			< 20
	4,6-Dinitro-2-methylphenol (ug/L)			< 10
	4-Chloro-3-methylphenol (ug/L)			< 10
	4-Nitrophenol (ug/L)			< 20
	Dinoseb (ug/L)			< 10
	Pentachlorophenol (ug/L)			7.2
	Phenol (ug/L)			< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
04/01/96	26.00	26.00	2482820	0.00
04/02/96	27.78	27.78	2522830	0.00
04/03/96	26.50	26.50	2591710	0.00
04/04/96	26.50	26.50	2629870	0.00
04/05/96	27.25	27.25	2669870	0.00
04/06/96	27.25	27.25	2709110	0.00
04/07/96	27.00	27.00	2710000	0.00
04/08/96	26.80	26.80	2742100	0.00
04/09/96	28.05	28.05	2782490	0.00
04/10/96	27.74	27.74	2822440	0.00
04/11/96	24.17	24.17	2857240	0.00
04/12/96	26.71	26.71	2895700	0.00
04/13/96	26.71	26.71	2934160	0.00
04/14/96	26.71	26.71	2972620	0.00
04/15/96	20.47	20.47	3002090	0.00
04/16/96	25.49	25.49	3038800	0.00
04/17/96	26.54	26.54	3077020	0.00
04/18/96	25.40	25.40	3088240	0.00
04/19/96	26.00	26.00	3092540	0.00
04/20/96	26.00	26.00	3094561	0.00
04/21/96	25.40	25.40	3097560	0.00
04/22/96	19.50	19.50	3099970	0.00
04/23/96	22.50	22.50	3105460	0.00
04/24/96	18.90	18.90	3110820	0.00
04/25/96	16.50	16.50	3122910	0.00
04/26/96	26.00	26.00	3165930	0.00
04/27/96	24.00	24.00	3206360	0.00
04/28/96	28.70	28.70	3260450	0.00
04/29/96	26.80	26.80	3281830	0.00
04/30/96	29.57	29.57	3324410	0.00
AVERAGE:	25.43	25.43		0.00
TOTAL (2):			841590	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
4/1/96	0	0	0	0	0	0	0	0	0	0	0.00
4/2/96	3.44	0	1.72	0	0	0	0	5.16	1.72	5.16	17.20
4/3/96	3.44	0	1.72	0	0	0	0	5.16	1.72	1.72	13.76
4/4/96	6.88	0	0	0	0	0	0	5.16	1.72	3.44	17.20
4/5/96	1.72	0	0	0	0	0	0	14	1.72	1.72	19.16
4/6/96	3.44	0	0	0	0	0	0	6.88	5.16	3.44	18.92
4/7/96	1.72	0	0	0	0	0	0	3.44	3.44	3.44	12.04
4/8/96	0	0	0	0	0	0	0	5.16	3.44	5.16	13.76
4/9/96	1.72	1.72	1.72	0	0	0	0	3.44	1.72	3.44	13.76
4/10/96	1.72	0	0	0	0	0	0	5.16	1.72	3.44	12.04
4/11/96	0	0	1.72	0	0	0	0	6.88	1.72	6.88	17.20
4/12/96	0	1.72	0	0	0	0	0	5.16	1.72	3.44	12.04
4/13/96	0	0	0	0	0	1.72	0	5.16	1.72	3.44	12.04
4/14/96	1.72	0	1.72	0	0	0	0	5.16	1.72	3.44	13.76
4/15/96	1.72	1.72	0	0	0	1.72	0	7	1.72	3.44	17.32
4/16/96	6.88	0	1.72	0	0	1.72	0	3.44	0	1.72	15.48
4/17/96	1.72	0	0	0	0	1.72	0	3.44	1.72	0	8.60
4/18/96	1.72	0	1.72	0	0	1.72	0	3.44	0	1.72	10.32
4/19/96	1.72	0	0	0	0	1.72	0	3.44	1.72	1.72	10.32
4/20/96	1.72	1.72	0	0	0	1.72	0	3.44	0	1.72	10.32
4/21/96	1.72	0	0	0	0	1.72	0	3.44	0	1.72	8.60
4/22/96	1.72	0	0	0	0	1.72	0	3.44	1.72	5.16	13.76
4/23/96	0	0	0	0	0	1.72	0	1.72	1.72	1.72	6.88
4/24/96	3.44	0	1.72	0	0	0	0	3.44	1.72	3.44	13.76
4/25/96	3.44	0	0	0	0	0	0	5.16	0	1.72	10.32
4/26/96	5.16	0	0	0	0	1.72	0	5.16	1.72	1.72	15.48
4/27/96	0	1.72	0	0	0	1.72	0	1.72	0	3.44	8.60
4/28/96	5.16	1.72	1.72	0	0	0	0	6.88	0	3.44	18.92
4/29/96	0	1.72	1.72	0	0	1.72	0	3.44	1.72	3.44	13.76
4/30/96	3.44	1.72	3.44	0	0	6.88	0	10.32	5.16	5.16	36.12
Total:	65.36	13.76	20.64	0.00	0.00	29.24	0.00	144.84	48.16	89.44	411.44

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

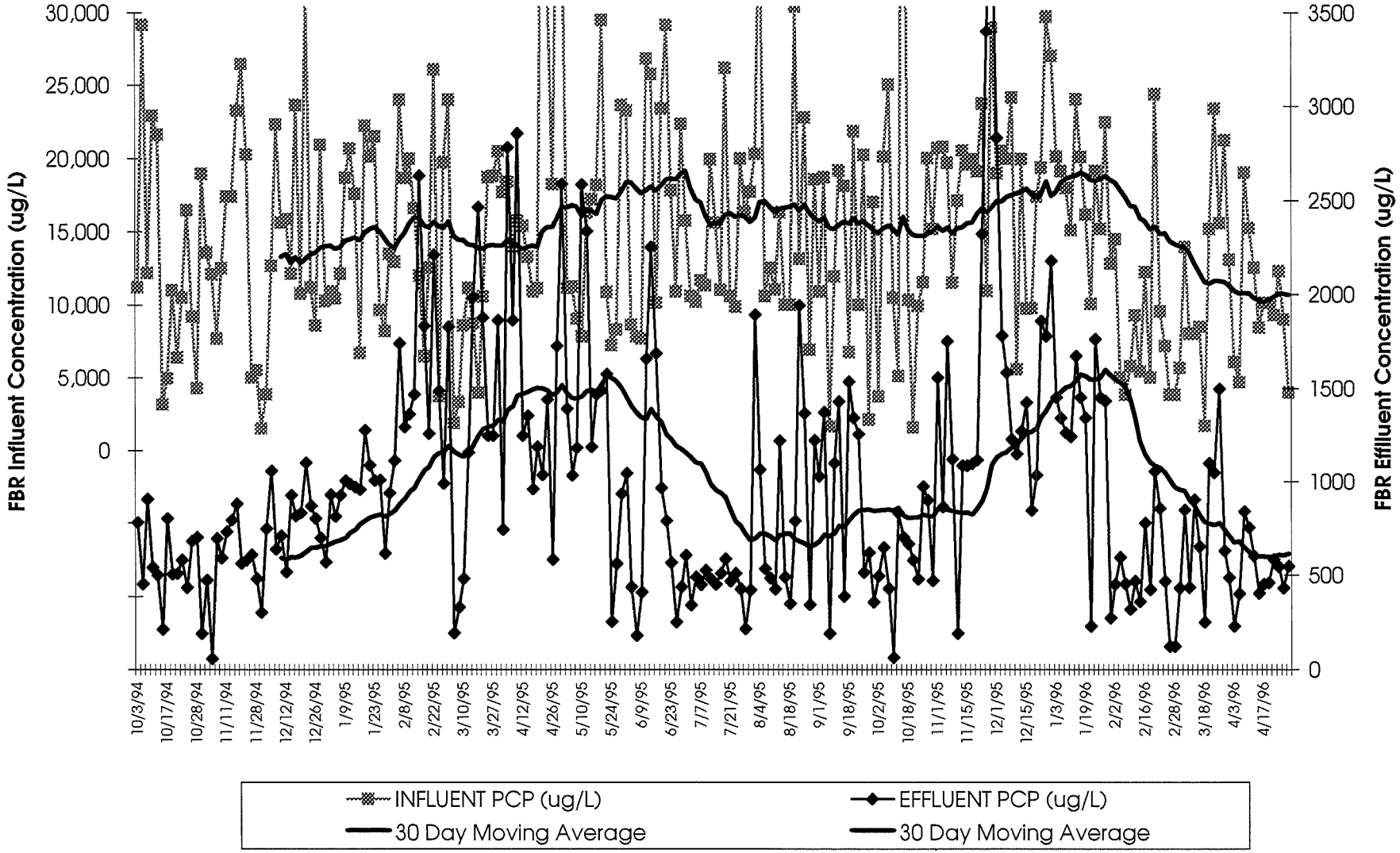
Well	February 29, 1996		March 28, 1996		April 30, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	Frozen	-----	1163.32	-----	1163.35
PW02	-----	Frozen	-----	1163.25	-----	1163.20
PW03	-----	1162.98	-----	1163.18	-----	1164.23
PW3S	-----	Frozen	0.35	1161.16	-----	-----
PW04	0.70	1156.10	0.60	1158.90	1.00	1158.80
PW05	0.20	1155.43	1.00	1155.28	0.25	1156.43
PW06	-----	Frozen	0.40	1162.69	0.40	1162.64
PW07	0.75	1155.45	0.20	1159.20	0.90	1158.80
PW08	0.23	1161.14	0.10	1161.22	-----	-----
PW9I	-----	1160.80	-----	1160.58	-----	1160.38
PW9O	-----	1161.89	-----	1162.64	-----	1160.64
PW10	0.45	1158.81	-----	1161.66	0.75	1160.51
PW11	0.45	1163.15	0.05	1161.20	0.80	1160.95
PW12	-----	1163.01	-----	1163.21	-----	1164.16
PW13	0.50	1158.70	0.20	1160.00	0.50	1160.70
PW14	-----	Frozen	-----	Frozen	-----	-----
PW15	0.37	1157.89	0.70	1158.31	0.20	1161.11
PW16	0.15	1161.53	0.10	1162.18	0.05	1162.83
P01	0.60	1161.16	0.40	1162.06	0.58	1162.61
OW01	-----	Frozen	-----	Inaccessible	-----	Inaccessible
W01A	-----	1163.41	-----	Inaccessible	-----	Inaccessible
W01B	-----	1163.39	-----	1163.59	-----	1164.49
W02	-----	1162.58	-----	1162.72	-----	1163.78
W03A	-----	1161.34	-----	1161.96	-----	1162.98
W03B	-----	1161.59	-----	1161.98	-----	1162.68
W04A	0.45	1161.51	0.05	1163.01	0.59	1163.36
W04B	0.30	1162.18	0.60	1162.53	0.60	1163.34
W05	0.35	1161.43	0.25	1162.18	0.33	1162.87
W06R	0.13	1163.14	-----	1163.46	-----	1164.38
W07	-----	Frozen	-----	Inaccessible	-----	Inaccessible
W08	-----	Frozen	-----	1170.75	-----	1173.75
W09	-----	1162.00	-----	1162.77	-----	1163.67
W10A	-----	1161.14	-----	1161.41	-----	1162.12
W10B	-----	1161.16	-----	1161.41	-----	1162.00
W11	-----	1160.65	-----	1161.34	-----	1161.75
W12	-----	1160.58	-----	1160.91	-----	1161.08
W13	-----	1161.39	-----	1162.03	-----	1162.72
W14	-----	1159.56	-----	1159.84	-----	1159.93
W16	-----	1162.10	-----	1162.85	-----	1163.49
W17	0.30	1161.02	0.03	1156.97	0.86	1157.36
W18	-----	1161.18	-----	1161.38	-----	1162.14
W19	-----	1163.03	-----	1163.49	-----	1164.47

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

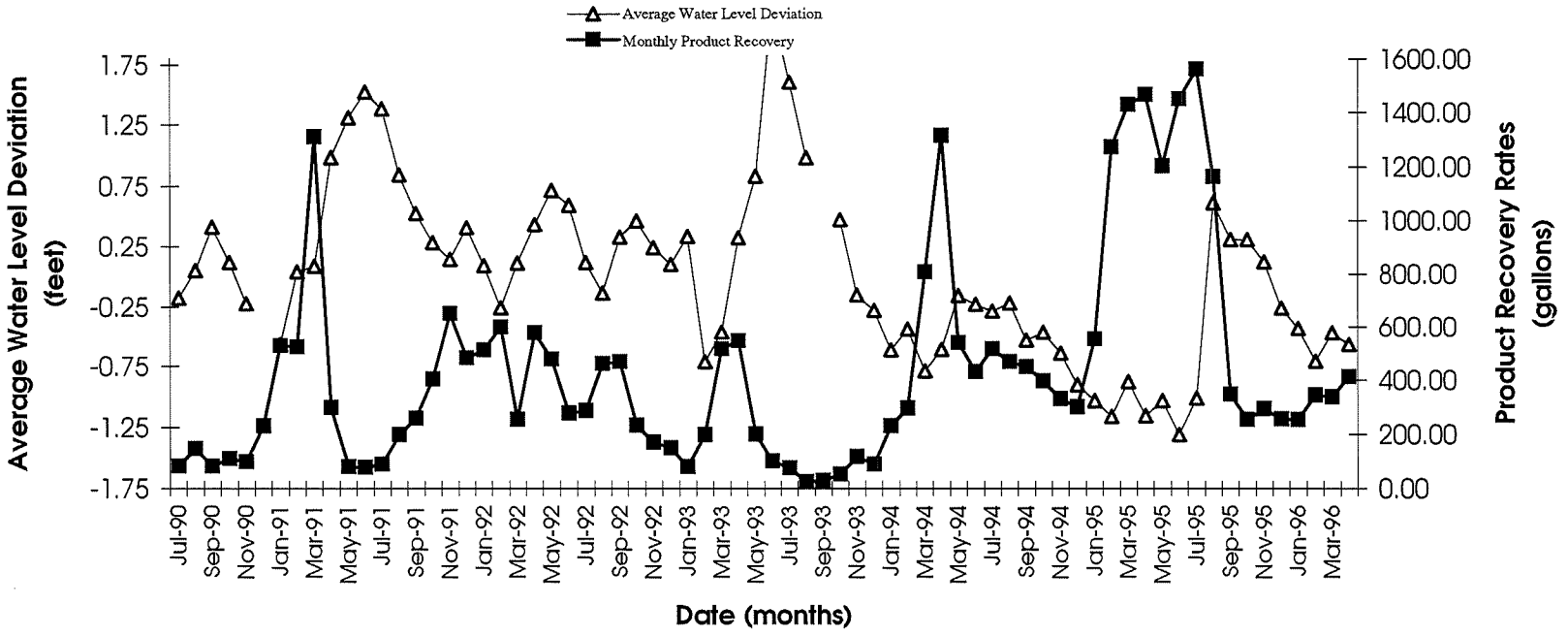
Well	February 29, 1996		March 28, 1996		April 30, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1160.34	-----	1161.18	-----	1161.46
W22	-----	1161.46	-----	1161.41	-----	1163.06
W23	-----	Frozen	-----	1161.11	-----	1161.20
W24A	-----	1160.72	-----	1161.04	-----	1161.13
W25	-----	1163.50	-----	Inaccessible	-----	Inaccessible
W26	-----	1161.00	-----	1161.34	-----	1161.76
W27	-----	1161.57	-----	1162.29	-----	1162.87
W28	-----	1161.22	-----	1161.36	-----	1162.15
W29	-----	1160.95	-----	1161.17	-----	1161.64
W30	1.20	1160.44	0.90	1161.49	1.49	1161.90
W31	-----	1161.01	-----	1161.08	-----	1161.58
W32	-----	1161.01	-----	1161.09	-----	1161.59
W33	-----	Frozen	-----	1156.76	-----	1155.90
W34	0.16	1158.59	-----	1159.35	-----	1157.86
W35	-----	Frozen	-----	Inaccessible	-----	Inaccessible
W36	0.09	1161.87	-----	1162.54	-----	1163.34
W39	-----	1162.17	-----	Inaccessible	-----	Inaccessible
W40	-----	Frozen	-----	Frozen	-----	-----
W41	-----	Frozen	-----	Frozen	-----	-----
W42	0.45	1162.52	0.20	1163.12	0.08	1164.07
W44	0.05	1161.83	0.10	1162.53	0.60	1162.81
W45	0.12	1161.78	-----	1163.48	-----	1163.96
W46	0.80	1160.92	0.55	1161.87	0.70	1162.50
W47	1.20	1156.79	0.80	1157.84	1.35	1158.01
W48	0.60	1157.13	0.20	1158.58	-----	1159.81
W49	0.80	1157.61	0.03	1158.91	-----	1159.81
W66	-----	1163.16	-----	1163.38	-----	1164.31
W67	-----	1163.05	-----	1163.35	-----	1164.27
W68A	0.10	1163.00	0.05	1163.20	-----	1164.21
W68B	-----	1163.09	-----	1163.29	-----	1164.24
W69	0.68	1161.85	-----	Inaccessible	-----	Inaccessible
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	Frozen	-----	Frozen	-----	-----

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



J:\WAULECO\ONM96\APR\MNTLY.XLS\FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



4/22/96

MONTGOMERY WATSON

April 22, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: March Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the March Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/vlr/JDD/DJB
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4113.0040-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
MARCH 1996

SUMMARY OF MARCH 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period. However, laboratory analytical results from an effluent sample collected on March 20, 1996 indicated a PCP concentration of 13 ug/L. A confirmation sample collected on March 29 indicated that the PCP concentration had decreased below 10 ug/L. The exceedance of the permit limit is believed to be attributable to the carryover of PCP-contaminated carbon fines resulting from the addition of 2,000 lb of regenerated carbon to the Fluidized Bed Reactor (FBR) on March 18. In the future, measures will be taken to reduce the potential for carryover of carbon fines following maintenance events.

PCP influent concentrations ranged from 1,667 ug/L to 23,385 ug/L during March 1996 (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent and effluent concentrations showed a slight increase during the latter half of this reporting period, and treatment efficiency remains approximately 90 to 95%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

Product Recovery

Product recovery data for the reporting period is presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels increased during March, and total product recovery for this month decreased slightly. Product recovery for March was 337 gal compared to 344 gal recovered during February. The product recovery increased at wells PW5, PW7, PW10, PW15, and PW16 and decreased at PW4, PW11, and PW13.

Recovery wells PW4, PW5, PW7, PW10, PW11, and PW13 were redeveloped on March 13. The well development forms are presented in Attachment 1.

Groundwater Monitoring

Groundwater elevation and product thickness data for January, February, and March are summarized in Table 4. In addition, results from quarterly groundwater monitoring events in December 1995 and March 1996 are presented in Attachment 2.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system continued normal operation during the month of March.

JMR/djd/JDD/DJB
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TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)				
	20-MAR-96	< .25	< .25	< .25
Chemical Oxygen Demand (mg/L)				
	19-FEB-96	60	25	0
	08-MAR-96	70	50	10
	20-MAR-96	62	52	< 20
Chloride (mg/L)				
	13-FEB-96	97	112	
	20-FEB-96	99	120	
	27-FEB-96	94	110	
	05-MAR-96	98	98	
	20-MAR-96	101	91	90
Dissolved Oxygen (mg/L)				
	14-FEB-96	9	4.5	1.3
	16-FEB-96	10	6	.7
	19-FEB-96	9.5	5.5	.8
	21-FEB-96	9.2	4	1.8
	23-FEB-96	9.6	5.6	1
	26-FEB-96	8.5	6.9	1.4
	28-FEB-96	8.2	8.6	1.6
	01-MAR-96	9.5	5	.6
	05-MAR-96	9	4.8	.4
	08-MAR-96	8.8	7.4	2.4
	11-MAR-96	8.4	5.7	2
	13-MAR-96	8.4	5.7	2
	18-MAR-96	7.8	4.6	.8
	22-MAR-96	9	4.4	.7
	25-MAR-96	6.4	3.6	1.8
	27-MAR-96	7	3	1.4
	29-MAR-96	8.5	4.5	1
Gasoline (mg/L)				
	20-MAR-96	< .25	< .25	< .25
Kerosene (mg/L)				
	20-MAR-96	< .25	< .25	< .25
Mineral Spirits (mg/L)				
	20-MAR-96	1.4	< .25	< .25

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Ammonia (mg/L)				
	14-FEB-96	4	0	
	16-FEB-96	4	1	
	19-FEB-96	4	1	
	21-FEB-96	3	1	
	23-FEB-96	3	1	
	26-FEB-96	1	1	
	28-FEB-96	3	1	
	01-MAR-96	3	1	
	05-MAR-96	3	1	
	08-MAR-96	1	0	
	11-MAR-96	3	1	
	13-MAR-96	3	1	
	18-MAR-96	3	1	
	22-MAR-96	3	1	
	25-MAR-96	3	1	
	27-MAR-96	3	1	
	29-MAR-96	3	1	
Nitrogen, Nitrate (mg/L)				
	14-FEB-96	3	3	
	16-FEB-96	3	3	
	23-FEB-96	3	3	
	05-MAR-96	3	3	
Nitrogen, Nitrate + Nitrite (mg/L)				
	20-MAR-96	.25	.56	.15
Nitrogen, Total Kjeldahl (mg/L)				
	20-MAR-96	4.22	2.32	1.37
Oil and Grease (mg/L)				
	20-MAR-96	20	< 1	< 1

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	13-FEB-96			0
	14-FEB-96	5423	361	2
	15-FEB-96			0
	16-FEB-96	12235	776	0
	17-FEB-96			1
	18-FEB-96			0
	19-FEB-96	5000	423	0
	20-FEB-96			1
	21-FEB-96	24387	1055	3
	22-FEB-96			0
	23-FEB-96	9524	854	2
	24-FEB-96			1
	25-FEB-96			0
	26-FEB-96	7143	468	1
	27-FEB-96			1
	28-FEB-96	3810	124	1
	29-FEB-96			0
	01-MAR-96	5660	430	0
	02-MAR-96			0
	03-MAR-96			1
	04-MAR-96			1
	05-MAR-96	13953	847	0
	06-MAR-96			0
	08-MAR-96	8000	435	2
	11-MAR-96	8000	902	0
	13-MAR-96	8471	651	0
	14-MAR-96			0
	15-MAR-96			0
	16-MAR-96			0
	17-MAR-96			0
	18-MAR-96	1667	250	1
	19-MAR-96			0
	20-MAR-96			3
	21-MAR-96			0
	22-MAR-96	15179	1097	3
	23-MAR-96			3
	24-MAR-96			1
	25-MAR-96			3
	26-MAR-96	23385	1046	0
	27-MAR-96			3
	28-MAR-96	15590	1497	8
	29-MAR-96	21257	629	9
	30-MAR-96			5
	31-MAR-96			5
Phosphorus, Ortho (mg/L)				
	20-MAR-96	.95	.75	.61

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Phosphorus, Phosphate (mg/L)				
	14-FEB-96	.9	.7	
	16-FEB-96	.9	.5	
	19-FEB-96	.8	.3	
	21-FEB-96	.8	.2	
	23-FEB-96	1.2	.8	
	26-FEB-96	.7	.7	
	28-FEB-96	.8	.7	
	01-MAR-96	.8	.5	
	05-MAR-96	.8	.5	
	08-MAR-96	.7	.3	
	11-MAR-96	.6	.5	
	13-MAR-96	.9	.5	
	18-MAR-96	.7	.3	
	22-MAR-96	.8	.4	
	25-MAR-96	.6	.3	
	27-MAR-96	.8	.2	
	29-MAR-96	.8	.3	
Solids, Total Suspended (mg/L)				
	20-MAR-96	14	34	< 2
pH (S.U.)				
	14-FEB-96	6.5	6.8	6.7
	16-FEB-96	6.2	6.7	6.8
	19-FEB-96	6.3	6.7	6.8
	21-FEB-96	6.5	6.8	6.7
	23-FEB-96	6.5	6.6	6.6
	26-FEB-96	6.4	6.6	6.5
	28-FEB-96	6.4	6.6	6.5
	01-MAR-96	6.7	6.6	6.8
	05-MAR-96	6.4	6.8	6.7
	08-MAR-96	6.9	6.8	6.6
	11-MAR-96	6.8	6.4	6.5
	13-MAR-96	6.3	6.6	6.6
	18-MAR-96	6.5	7	6.7
	20-MAR-96	6.79	7.4	7.25
	22-MAR-96	6.6	6.7	6.6
	25-MAR-96	6.5	7.2	6.7
	27-MAR-96	6.4	7	6.6
	29-MAR-96	6.6	6.7	6.6

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
20-MAR-96	2,3,4,6-Tetrachlorophenol (ug/L)	< 100	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	230	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	650	< 10	< 10
	2,4-Dichlorophenol (ug/L)	120	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 100	< 10	< 10
	2,4-Dinitrophenol (ug/L)	260	< 20	< 20
	2,6-Dichlorophenol (ug/L)	170	< 10	< 10
	2-Chlorophenol (ug/L)	< 100	< 10	< 10
	2-Methylphenol (ug/L)	< 100	< 10	< 10
	2-Nitrophenol (ug/L)	< 100	< 10	< 10
	3&4-Methylphenol (ug/L)	< 200	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	1600	35	< 10
	4-Chloro-3-methylphenol (ug/L)	250	< 10	< 10
	4-Nitrophenol (ug/L)	< 200	< 20	< 20
	Dinoseb (ug/L)	< 100	< 10	< 10
	Pentachlorophenol (ug/L)	8800	180	13
	Phenol (ug/L)	< 100	< 10	< 10
29-MAR-96	2,3,4,6-Tetrachlorophenol (ug/L)			< 10
	2,4,5-Trichlorophenol (ug/L)			< 10
	2,4,6-Trichlorophenol (ug/L)			< 10
	2,4-Dichlorophenol (ug/L)			< 10
	2,4-Dimethylphenol (ug/L)			< 10
	2,4-Dinitrophenol (ug/L)			< 20
	2,6-Dichlorophenol (ug/L)			< 10
	2-Chlorophenol (ug/L)			< 10
	2-Methylphenol (ug/L)			< 10
	2-Nitrophenol (ug/L)			< 10
	3&4-Methylphenol (ug/L)			< 20
	4,6-Dinitro-2-methylphenol (ug/L)			< 10
	4-Chloro-3-methylphenol (ug/L)			< 10
	4-Nitrophenol (ug/L)			< 20
	Dinoseb (ug/L)			< 10
	Pentachlorophenol (ug/L)			7.5
	Phenol (ug/L)			< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
03/01/96	26.20	26.20	1469760	0.00
03/02/96	26.20	26.20	1507488	0.00
03/03/96	26.20	26.20	1545216	0.00
03/04/96	23.94	23.94	1579690	0.00
03/05/96	27.07	27.07	1618670	0.00
03/06/96	27.07	27.07	1657650	0.00
03/07/96	25.30	25.30	1694082	0.00
03/08/96	26.12	26.12	1729230	0.00
03/09/96	27.00	27.00	1768110	0.00
03/10/96	27.00	27.00	1780154	0.00
03/11/96	21.21	21.21	1810700	0.00
03/12/96	20.06	20.06	1839590	0.00
03/13/96	18.03	18.03	1865550	0.00
03/14/96	24.04	24.04	1900170	0.00
03/15/96	24.55	24.55	1935520	0.00
03/16/96	24.55	24.55	1970870	0.00
03/17/96	24.55	24.55	2006220	0.00
03/18/96	14.53	14.53	2027150	0.00
03/19/96	25.51	25.51	2063890	0.00
03/20/96	19.79	19.79	2092390	0.00
03/21/96	20.07	20.07	2121290	0.00
03/22/96	24.60	24.60	2156710	0.00
03/23/96	24.60	24.60	2192130	0.00
03/24/96	24.60	24.60	2227550	0.00
03/25/96	16.13	16.13	2250780	0.00
03/26/96	25.28	25.28	2287180	0.00
03/27/96	25.49	25.49	2323890	0.00
03/28/96	25.41	25.41	2360480	0.00
03/29/96	22.19	22.19	2392440	0.00
03/30/96	22.19	22.19	2424400	0.00
03/31/96	22.19	22.19	2456360	0.00
AVERAGE:	23.60	23.60		0.00
TOTAL (2):			986600	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
3/1/96	3.44	0	0	0	0	0	0	3.44	0	0	6.88
3/2/96	0	1.72	0	0	0	1.72	0	3.44	0	1.72	8.60
3/3/96	10.32	0	0	0	0	0	0	5.16	0	0	15.48
3/4/96	10.32	1.72	0	0	0	1.72	0	8.6	0	1.72	24.08
3/5/96	5.16	0	0	0	0	3.44	0	3.44	0	0	12.04
3/6/96	3.44	0	0	0	0	3.44	0	5.16	0	1.72	13.76
3/7/96	6.88	0	0	0	0	3.44	0	6.88	0	0	17.20
3/8/96	6.88	1.72	0	0	0	1.72	0	5.16	0	0	15.48
3/9/96	6.88	0	0	0	0	1.72	0	5.16	0	1.72	15.48
3/10/96	5.16	1.72	0	0	0	1.72	0	1.72	0	0	10.32
3/11/96	3.44	0	0	0	0	1.72	0	3.44	1.72	0	10.32
3/12/96	3.44	0	0	0	0	1.72	0	5.16	0	1.72	12.04
3/13/96	0	0	0	0	0	0	0	0	0	1.72	1.72
3/14/96	0	0	0	0	0	0	0	0	0	1.72	1.72
3/15/96	0	0	0	0	0	0	0	0	0	1.72	1.72
3/16/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
3/17/96	0	0	0	0	0	0	0	0	0	1.72	1.72
3/18/96	0	1.72	0	0	0	0	0	1.72	0	0	3.44
3/19/96	1.72	0	0	0	0	0	0	1.72	1.72	3.44	8.60
3/20/96	0	0	1.72	0	0	0	0	1.72	0	1.72	5.16
3/21/96	0	0	0	0	0	0	0	1.72	1.72	1.72	5.16
3/22/96	1.72	0	1.72	0	1.72	1.72	0	1.72	1.72	3.44	13.76
3/23/96	0	0	0	0	0	0	0	1.72	1.72	3.44	6.88
3/24/96	1.72	0	0	0	0	1.72	0	1.72	1.72	1.72	8.60
3/25/96	1.72	0	0	0	0	0	0	1.72	1.72	3.44	8.60
3/26/96	1.72	1.72	1.72	0	1.72	0	0	1.72	1.72	3.44	13.76
3/27/96	1.72	1.72	0	0	0	0	0	1.72	0	1.72	6.88
3/28/96	1.72	0	1.72	0	1.72	1.72	0	3.44	1.72	3.44	15.48
3/29/96	1.72	1.72	0	0	0	0	0	1.72	1.72	6.88	13.76
3/30/96	3.44	1.72	1.72	0	0	0	0	5.16	3.44	10.32	25.80
3/31/96	5.16	1.72	3.44	0	0	0	0	6.88	3.44	8.6	29.24
Total:	89.44	17.20	12.04	0.00	5.16	27.52	0.00	92.88	24.08	68.80	337.12

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

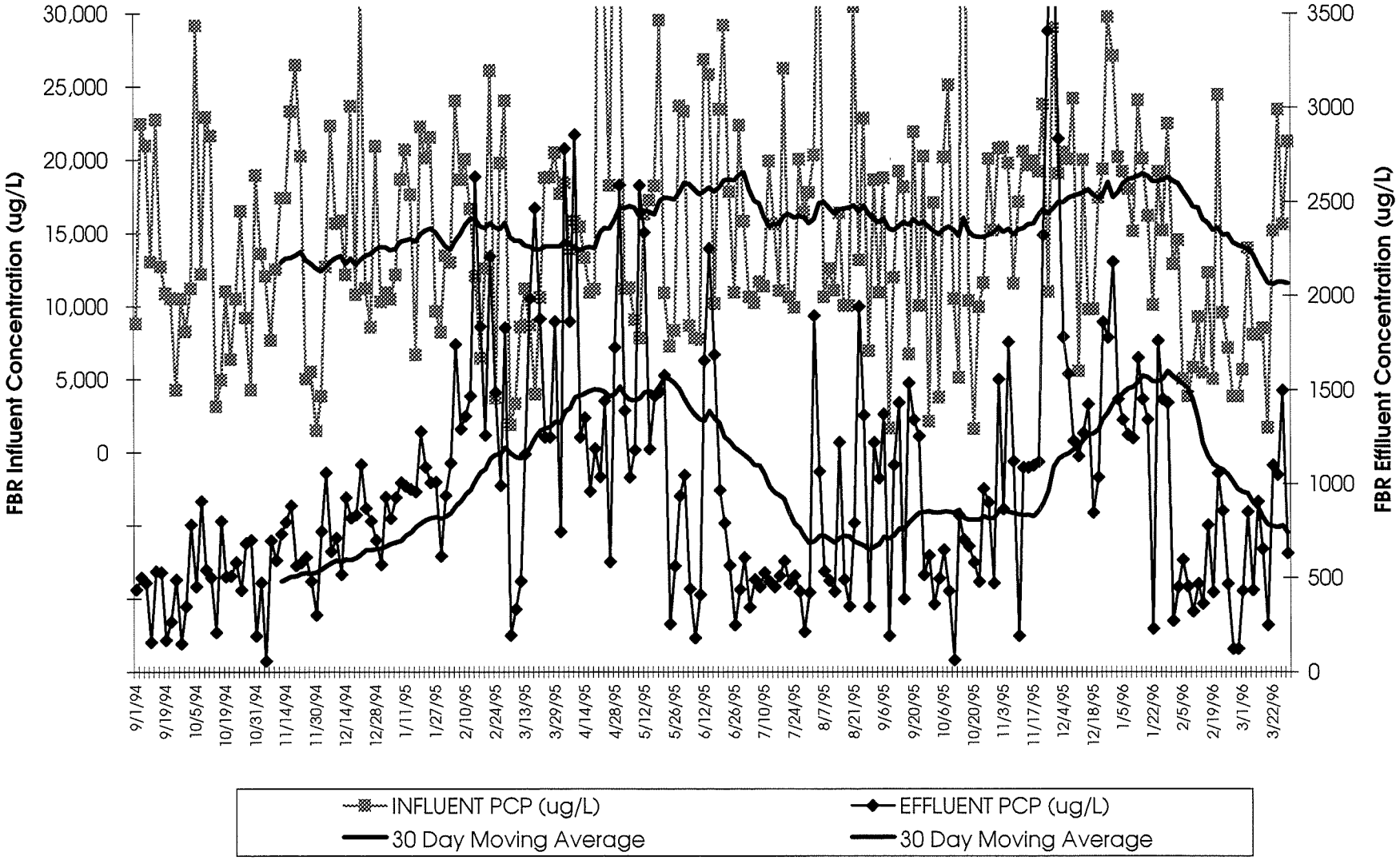
Well	January 31, 1996		February 29, 1996		March 28, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	Frozen	-----	Frozen	-----	1163.32
PW02	-----	Frozen	-----	Frozen	-----	1163.25
PW03	-----	1163.35	-----	1162.98	-----	1163.18
PW3S	0.66	1160.36	-----	Frozen	0.35	1161.16
PW04	0.10	1157.30	0.70	1156.10	0.60	1158.90
PW05	0.20	1156.73	0.20	1155.43	1.00	1155.28
PW06	-----	Frozen	-----	Frozen	0.40	1162.69
PW07	0.30	1156.40	0.75	1155.45	0.20	1159.20
PW08	0.24	1161.31	0.23	1161.14	0.10	1161.22
PW9I	-----	1160.58	-----	1160.80	-----	1160.58
PW9O	-----	1162.14	-----	1161.89	-----	1162.64
PW10	0.05	1160.21	0.45	1158.81	-----	1161.66
PW11	0.15	1160.80	0.45	1163.15	0.05	1161.20
PW12	-----	1163.26	-----	1163.01	-----	1163.21
PW13	0.40	1159.30	0.50	1158.70	0.20	1160.00
PW14	-----	Frozen	-----	Frozen	-----	Frozen
PW15	0.70	1155.41	0.37	1157.89	0.70	1158.31
PW16	0.70	1161.58	0.15	1161.53	0.10	1162.18
P01	0.51	1161.42	0.60	1161.16	0.40	1162.06
OW01	-----	Frozen	-----	Frozen	-----	Inaccessible
W01A	-----	1163.72	-----	1163.41	-----	Inaccessible
W01B	-----	1163.72	-----	1163.39	-----	1163.59
W02	-----	1162.89	-----	1162.58	-----	1162.72
W03A	-----	1161.53	-----	1161.34	-----	1161.96
W03B	-----	1160.72	-----	1161.59	-----	1161.98
W04A	0.60	1162.10	0.45	1161.51	0.05	1163.01
W04B	0.42	1162.25	0.30	1162.18	0.60	1162.53
W05	0.31	1161.57	0.35	1161.43	0.25	1162.18
W06R	0.05	1163.48	0.13	1163.14	-----	1163.46
W07	-----	Frozen	-----	Frozen	-----	Inaccessible
W08	-----	1172.83	-----	Frozen	-----	1170.75
W09	-----	1162.52	-----	1162.00	-----	1162.77
W10A	-----	1161.29	-----	1161.14	-----	1161.41
W10B	-----	1161.28	-----	1161.16	-----	1161.41
W11	-----	1160.82	-----	1160.65	-----	1161.34
W12	-----	1160.61	-----	1160.58	-----	1160.91
W13	-----	1161.62	-----	1161.39	-----	1162.03
W14	-----	1159.59	-----	1159.56	-----	1159.84
W16	-----	1162.11	-----	1162.10	-----	1162.85
W17	0.30	1161.32	0.30	1161.02	0.03	1156.97
W18	-----	1161.39	-----	1161.18	-----	1161.38
W19	-----	1163.22	-----	1163.03	-----	1163.49

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

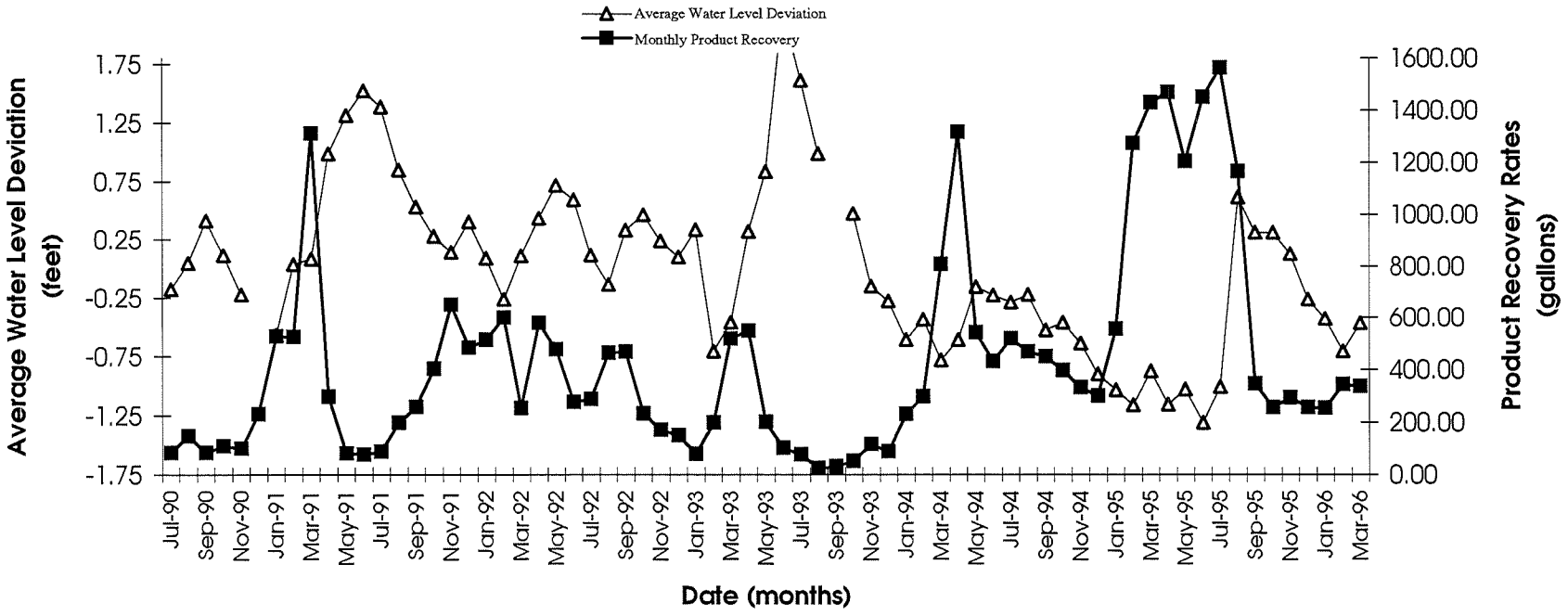
Well	January 31, 1996		February 29, 1996		March 28, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1160.52	-----	1160.34	-----	1161.18
W22	-----	1161.51	-----	1161.46	-----	1161.41
W23	-----	1160.93	-----	Frozen	-----	1161.11
W24A	-----	1160.76	-----	1160.72	-----	1161.04
W25	-----	1163.77	-----	1163.50	-----	Inaccessible
W26	-----	1161.12	-----	1161.00	-----	1161.34
W27	-----	1161.49	-----	1161.57	-----	1162.29
W28	-----	1161.44	-----	1161.22	-----	1161.36
W29	-----	1161.06	-----	1160.95	-----	1161.17
W30	1.14	1160.70	1.20	1160.44	0.90	1161.49
W31	-----	1161.10	-----	1161.01	-----	1161.08
W32	-----	1161.09	-----	1161.01	-----	1161.09
W33	-----	Frozen	-----	Frozen	-----	1156.76
W34	0.15	1158.79	0.16	1158.59	-----	1159.35
W35	1.07	1161.13	-----	Frozen	-----	Inaccessible
W36	-----	1162.23	0.09	1161.87	-----	1162.54
W39	-----	1162.37	-----	1162.17	-----	Inaccessible
W40	-----	Frozen	-----	Frozen	-----	Frozen
W41	-----	Frozen	-----	Frozen	-----	Frozen
W42	0.63	1162.51	0.45	1162.52	0.20	1163.12
W44	0.05	1162.07	0.05	1161.83	0.10	1162.53
W45	0.12	1162.01	0.12	1161.78	-----	1163.48
W46	0.88	1160.24	0.80	1160.92	0.55	1161.87
W47	0.91	1157.60	1.20	1156.79	0.80	1157.84
W48	0.51	1157.90	0.60	1157.13	0.20	1158.58
W49	0.74	1157.80	0.80	1157.61	0.03	1158.91
W66	-----	1162.42	-----	1163.16	-----	1163.38
W67	-----	1163.39	-----	1163.05	-----	1163.35
W68A	-----	1163.39	0.10	1163.00	0.05	1163.20
W68B	-----	1163.29	-----	1163.09	-----	1163.29
W69	0.68	1161.95	0.68	1161.85	-----	Inaccessible
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	Frozen	-----	Frozen	-----	Frozen

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



J:\WAULECO\ONM96\MAR\MNTLY.XLS\FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



ATTACHMENT 1

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County	Well Name
WAULECO	Marathon	PW-4
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	37	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:
- surged with bailer and bailed ☐ 41
- surged with bailer and pumped ☐ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed, and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- other Surged w/Block, Air Surged, Jetted, Bailed & Pumped ☒ 99

3. Time spent developing well 150 min.

4. Depth of well (from top of well casing) 42.0 ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing 14.2 gal.

7. Volume of water removed from well 200.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	25.90 ft.	40.82 ft.
Date b.	03/12/96	03/12/96
Time c.	1:30 ☐ a.m. ☒ p.m.	4:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Cloudy	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:
5 GPM/40.8 Draw Down/1.5 Gallons LBA added to Well.

Well developed by: Person's Name and Firm

Name: Larry Erdman

Firm: Boart Longyear

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: BET

Firm: Boart Longyear

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County	Well Name
WAULECO	Marathon	PW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	37		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged w/Block, Air Surged, Jetted, Bailed & Pumped	☒	99

3. Time spent developing well 150 min.

4. Depth of well (from top of well casing) 41.5 ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing 14.6 gal.

7. Volume of water removed from well 125.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	24.68 ft.	38.50 ft.
Date	b.	03/12/96	03/12/96
Time	c.	11:00 ☒ a.m. ☐ p.m.	1:30 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Cloudy	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:
7.5 GPM/38.5 Draw Down/1.5 Gallons LBA added to Well.

Well developed by: Person's Name and Firm

Name: Larry Erdman

Firm: Boart Longyear

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: R E T

Print Initials: RET

Firm: Boart Longyear

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County	Well Name
WAULECO	Marathon	PW-7
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	37	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:
- surged with bailer and bailed ☐ 41
- surged with bailer and pumped ☐ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed, and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- other Surged w/Block, Air Surged, Jetted, Pumped & Bailed ☒ 99

3. Time spent developing well 210 min.

4. Depth of well (from top of well casing) 45.0 ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing 15.3 gal.

7. Volume of water removed from well 200.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	27.85 ft.	35.50 ft.
Date	b.	03/11/96	03/11/96
Time	c.	1:00 ☐ a.m. ☒ p.m.	4:30 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Cloudy	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:
10 GPM/41.0 Draw Down/1.5 Gallons LBA added to Well.

Well developed by: Person's Name and Firm

Name: Larry Erdman

Firm: Boart Longyear

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: RET

Firm: Boart Longyear

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County	Well Name
WAULECO	Marathon	PW-10
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	37	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:
- surged with bailer and bailed ☐ 41
- surged with bailer and pumped ☐ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed, and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- other Surged w/Block, Air Jet & Surge Pump & Bail ☒

3. Time spent developing well 240 min.

4. Depth of well (from top of well casing) 41.5 ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing 9.7 gal.

7. Volume of water removed from well 130.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	30.50 ft.	40.80 ft.
Date	b.	03/13/96	03/13/96
Time	c.	7:30 ☒ a.m. ☐ p.m.	11:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Muddy	Clear ☐ 20 Turbid ☒ 25 (Describe) Cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:
3 GPM/40.8 Draw Down/1 Gallon LBA added to Well.

Well developed by: Person's Name and Firm

Name: Larry Erdman

Firm: Boart Longyear

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: RET

Firm: Boart Longyear

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

4/1/96

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County	Well Name
WAULECO	Marathon	PW-11
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	37	

	Before Development	After Development
1. Can this well be purged dry?	☐ Yes ☒ No	
2. Well development method:		
surged with bailer and bailed ☐ 41		
surged with bailer and pumped ☐ 61		
surged with block and bailed ☐ 42		
surged with block and pumped ☐ 62		
surged with block, bailed, and pumped ☐ 70		
compressed air ☐ 20		
bailed only ☐ 10		
pumped only ☐ 51		
pumped slowly ☐ 50		
other Air Surged & Jetted, Bailed & Pumped ☒ 99		
11. Depth to Water (from top of well casing) a.	19.60 ft.	34.00 ft.
Date b.	03/12/96	03/13/96
Time c.	7:30 ☒ a.m. ☐ p.m.	11:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Muddy	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear
3. Time spent developing well	210 min.	
4. Depth of well (from top of well casing)	47.0 ft.	
5. Inside diameter of well	in.	
6. Volume of water in filter pack and well casing	24.3 gal.	
7. Volume of water removed from well	200.0 gal.	
8. Volume of water added (if any)	gal.	
9. Source of water added		
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No	
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:
10 GPM/34.0 Draw Down/3 Gallons LBA added to Well.

Well developed by: Person's Name and Firm

Name: Larry Erdman

Firm: Boart Longyear

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: RET

Firm: Boart Longyear

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County	Well Name
WAULECO	Marathon	PW-13
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	37	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:
- surged with bailer and bailed ☐ 41
- surged with bailer and pumped ☐ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed, and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- other Surged w/Block, Air Surged, Jetted, Pumped & Bailed ☒ 99

3. Time spent developing well 270 min.

4. Depth of well (from top of well casing) 42.1 ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing 10.4 gal.

7. Volume of water removed from well 150.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	30.30 ft.	37.40 ft.
Date b.	03/11/96	03/11/96
Time c.	8:30 ☒ a.m. ☐ p.m.	1:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Muddy	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:
7 GPM/End of Developement/1.5 Gallons LBA added to Well.

Well developed by: Person's Name and Firm

Name: Larry Erdman

Firm: Boart Longyear

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: RET

Firm: Boart Longyear

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

ATTACHMENT 2

ANALYTICAL DATA REPORT
Wauleco, Inc.
Wausau, Wisconsin

Project No. 4113.0020
Generated by: JAH
Date Issued: 05-APR-96

Parameter	BLANK 12/18/95	W06R 12/18/95	W08 12/18/95	W1A 12/18/95	W1A DUP 12/18/95
Phenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
2-Chlorophenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
2-Nitrophenol (ug/L)	< 10.	32000.	< 10.	< 100.	< 100.
2,4-Dimethylphenol (ug/L)	< 10.	12000.	< 10.	< 100.	< 100.
2,4-Dichlorophenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
4-Chloro-3-methylphenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
2,4,6-Trichlorophenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
2,4-Dinitrophenol (ug/L)	< 20.	< 2000.	< 20.	< 200.	< 200.
4-Nitrophenol (ug/L)	< 20.	< 2000.	< 20.	< 200.	< 200.
4,6-Dinitro-2-methylphenol (ug/L)	< 10.	3300.	< 10.	< 100.	< 100.
Pentachlorophenol (ug/L)	< 1.	73000.	< 1.	180.	170.
2-Methylphenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
3&4-Methylphenol (ug/L)	< 20.	36000.	< 20.	< 200.	< 200.
Dinoseb (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
2,6-Dichlorophenol (ug/L)	< 10.	5200.	< 10.	< 100.	< 100.
2,4,5-Trichlorophenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
2,3,4,6-Tetrachlorophenol (ug/L)	< 10.	< 1000.	< 10.	< 100.	< 100.
Chloride (mg/L)	< 2.	171.	61.	147.	137.
Nitrogen, Ammonia (mg/L)	< 0.1	0.25	< 0.1	0.2	0.18
Nitrogen, Nitrate + Nitrite (mg/L)	< 0.02	1.34	1.8	2.61	2.63

ANALYTICAL DATA REPORT
Wauleco, Inc.
Wausau, Wisconsin

Parameter	W2 12/18/95	W22 12/18/95	W33 12/18/95	W39 12/18/95	W3A 12/18/95
Phenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2-Chlorophenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2-Nitrophenol (ug/L)	< 5000.	< 100.	5400.	2800.	< 10000.
2,4-Dimethylphenol (ug/L)	< 5000.	< 100.	2200.	< 1000.	< 10000.
2,4-Dichlorophenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
4-Chloro-3-methylphenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2,4,6-Trichlorophenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2,4-Dinitrophenol (ug/L)	< 10000.	< 200.	< 2000.	< 2000.	< 20000.
4-Nitrophenol (ug/L)	< 10000.	< 200.	< 2000.	< 2000.	< 20000.
4,6-Dinitro-2-methylphenol (ug/L)	< 5000.	< 100.	1700.	< 1000.	< 10000.
Pentachlorophenol (ug/L)	6700.	3200.	13000.	2400.	17000.
2-Methylphenol (ug/L)	< 5000.	< 100.	5800.	2100.	< 10000.
3&4-Methylphenol (ug/L)	< 10000.	< 200.	4100.	4400.	< 20000.
Dinoseb (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2,6-Dichlorophenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2,4,5-Trichlorophenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
2,3,4,6-Tetrachlorophenol (ug/L)	< 5000.	< 100.	< 1000.	< 1000.	< 10000.
Chloride (mg/L)	97.	183.	94.	141.	111.
Nitrogen, Ammonia (mg/L)	0.14	0.13	< 0.1	0.45	< 0.1
Nitrogen, Nitrate + Nitrite (mg/L)	0.69	< 0.1	< 0.2	0.24	0.95

ANALYTICAL DATA REPORT
Wauleco, Inc.
Wausau, Wisconsin

Project No. 4113.0020
Generated by: JAH
Date Issued: 05-APR-96

Parameter	BLANK 03/21/96	W01A 03/21/96	W01A DUP 03/21/96	W02 03/21/96	W03A 03/21/96
Phenol (ug/L)	< 10.	< 10.	< 10.	< 1000.	< 2000.
2-Chlorophenol (ug/L)	< 10.	< 10.	< 10.	< 1000.	< 2000.
2-Nitrophenol (ug/L)	< 10.	< 10.	< 10.	< 1000.	< 2000.
2,4-Dimethylphenol (ug/L)	< 10.	16.	21.	< 1000.	< 2000.
2,4-Dichlorophenol (ug/L)	< 10.	12.	11.	< 1000.	< 2000.
4-Chloro-3-methylphenol (ug/L)	< 10.	48.	65.	< 1000.	< 2000.
2,4,6-Trichlorophenol (ug/L)	< 10.	53.	74.	< 1000.	< 2000.
2,4-Dinitrophenol (ug/L)	< 20.	< 20.	< 20.	< 2000.	< 4000.
4-Nitrophenol (ug/L)	< 20.	24.	44.	< 2000.	< 4000.
4,6-Dinitro-2-methylphenol (ug/L)	< 10.	20.	37.	1100.	< 2000.
Pentachlorophenol (ug/L)	< 1.	140.	220.	11000.	12000.
2-Methylphenol (ug/L)	< 10.	< 10.	< 10.	< 1000.	< 2000.
3&4-Methylphenol (ug/L)	< 20.	< 20.	< 20.	< 2000.	< 4000.
Dinoseb (ug/L)	< 10.	< 10.	< 10.	< 1000.	< 2000.
2,6-Dichlorophenol (ug/L)	< 10.	13.	22.	< 1000.	< 2000.
2,4,5-Trichlorophenol (ug/L)	< 10.	86.	130.	< 1000.	< 2000.
2,3,4,6-Tetrachlorophenol (ug/L)	< 10.	< 10.	10.	< 1000.	< 2000.
Chloride (mg/L)	< 2.	134.	137.	89.	86.
Nitrogen, Ammonia (mg/L)	0.12	0.4	0.29	0.13	< 0.1
Nitrogen, Nitrate + Nitrite (mg/L)	< 0.02	2.7	2.88	0.74	0.5

ANALYTICAL DATA REPORT
Wauleco, Inc.
Wausau, Wisconsin

Parameter	W08 03/20/96	W13 03/20/96	W19 03/20/96	W22 03/21/96	W22 DUP 03/21/96
Phenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2-Chlorophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2-Nitrophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,4-Dimethylphenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,4-Dichlorophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
4-Chloro-3-methylphenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,4,6-Trichlorophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,4-Dinitrophenol (ug/L)	< 20.	< 200.	< 400.	< 2000.	< 2000.
4-Nitrophenol (ug/L)	< 20.	< 200.	< 400.	< 2000.	< 2000.
4,6-Dinitro-2-methylphenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
Pentachlorophenol (ug/L)	6.4	740.	410.	610.	950.
2-Methylphenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
3&4-Methylphenol (ug/L)	< 20.	< 200.	< 400.	< 2000.	< 2000.
Dinoseb (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,6-Dichlorophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,4,5-Trichlorophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
2,3,4,6-Tetrachlorophenol (ug/L)	< 10.	< 100.	< 200.	< 1000.	< 1000.
Chloride (mg/L)	59.	133.	43.	138.	128.
Nitrogen, Ammonia (mg/L)	0.12	0.1	0.25	0.12	< 0.1
Nitrogen, Nitrate + Nitrite (mg/L)	3.22	4.65	< 0.1	< 0.1	< 0.1

ANALYTICAL DATA REPORT
Wauleco, Inc.
Wausau, Wisconsin

Parameter	W25 03/21/96	W26 03/21/96	W33 03/21/96	W39 03/20/96	W41 03/20/96
Phenol (ug/L)	< 10.	< 2000.	3200.	6900.	< 1000.
2-Chlorophenol (ug/L)	< 10.	< 2000.	2100.	5000.	< 1000.
2-Nitrophenol (ug/L)	< 10.	< 2000.	2100.	6700.	< 1000.
2,4-Dimethylphenol (ug/L)	< 10.	< 2000.	< 2000.	1500.	< 1000.
2,4-Dichlorophenol (ug/L)	< 10.	< 2000.	< 2000.	1100.	< 1000.
4-Chloro-3-methylphenol (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
2,4,6-Trichlorophenol (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
2,4-Dinitrophenol (ug/L)	< 20.	< 4000.	< 4000.	< 2000.	< 2000.
4-Nitrophenol (ug/L)	< 20.	< 4000.	< 4000.	< 2000.	< 2000.
4,6-Dinitro-2-methylphenol (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
Pentachlorophenol (ug/L)	< 1.	8200.	2300.	1900.	7000.
2-Methylphenol (ug/L)	< 10.	< 2000.	< 2000.	2300.	< 1000.
3&4-Methylphenol (ug/L)	< 20.	< 4000.	< 4000.	< 2000.	< 2000.
Dinoseb (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
2,6-Dichlorophenol (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
2,4,5-Trichlorophenol (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
2,3,4,6-Tetrachlorophenol (ug/L)	< 10.	< 2000.	< 2000.	< 1000.	< 1000.
Chloride (mg/L)	54.	118.	59.	69.	162.
Nitrogen, Ammonia (mg/L)	0.11	0.16	0.11	0.13	0.54
Nitrogen, Nitrate + Nitrite (mg/L)	4.55	< 0.04	< 0.1	< 0.1	< 0.2

3/18/96

MONTGOMERY WATSON

March 18, 1996

RECEIVED
Wis. Dept. of Natural Resources
MAR 22 1996
N. C. Dist. Hdqtrs.
RHINELANDER, WI

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: February Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the February Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

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4113.0040-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
FEBRUARY 1996

SUMMARY OF FEBRUARY 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period.

PCP influent concentrations ranged from 3,803 ug/L to 24,387 ug/L during February 1996 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR influent and effluent concentrations have decreased somewhat over this reporting period, and treatment efficiency remains approximately 90 to 95%. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

Product Recovery

Product recovery data for the reporting period is presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels continued to decrease during February, and total product recovery for this month increased. Product recovery for February was 344 gal compared to 253 gal recovered during January. The increase in total product recovery was due to increases at wells PW4, PW7, PW11, PW13, and PW16. Recovery rates decreased at PW5 and PW15.

Groundwater Monitoring

Groundwater elevation and product thickness data for December, January, and February are summarized in Table 4.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system was turned off on January 31 due to condensate freezing in the SVE conveyance lines. The system was restarted on February 6 and continued normal operation during the remainder of February.

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TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)				
	08-FEB-96	< .25	< .25	< .25
Chemical Oxygen Demand (mg/L)				
	08-FEB-96	50	40	< 20
	12-FEB-96	70	30	5
	19-FEB-96	60	25	0
Chloride (mg/L)				
	29-JAN-96	90	98	
	05-FEB-96	95	101	
	08-FEB-96	94	103	101
Dissolved Oxygen (mg/L)				
	29-JAN-96	8.5	5	.9
	31-JAN-96	10	6.6	.6
	02-FEB-96	10	6	.7
	05-FEB-96	10	6.1	.8
	07-FEB-96	9.1	5.2	1
	09-FEB-96	9.2	5.5	.8
	12-FEB-96	9.5	5.8	.6
	14-FEB-96	9	4.5	1.3
	16-FEB-96	10	6	.7
	19-FEB-96	9.5	5.5	.8
	21-FEB-96	9.2	4	1.8
	23-FEB-96	9.6	5.6	1
	26-FEB-96	8.5	6.9	1.4
	28-FEB-96	8.2	8.6	1.6
Gasoline (mg/L)				
	08-FEB-96	< .25	< .25	< .25
Kerosene (mg/L)				
	08-FEB-96	< .25	< .25	< .25
Mineral Spirits (mg/L)				
	08-FEB-96	1.9	< .25	< .25

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Ammonia (mg/L)				
	29-JAN-96	4	1	
	31-JAN-96	3	1	
	02-FEB-96	3	1	
	05-FEB-96	3	1	
	07-FEB-96	3	1	
	09-FEB-96	3	1	
	12-FEB-96	3	1	
	14-FEB-96	4	0	
	16-FEB-96	4	1	
	19-FEB-96	4	1	
	21-FEB-96	3	1	
	23-FEB-96	3	1	
	26-FEB-96	1	1	
	28-FEB-96	3	1	
Nitrogen, Nitrate (mg/L)				
	31-JAN-96	3	3	
	05-FEB-96	3	3	
	14-FEB-96	3	3	
	16-FEB-96	3	3	
	23-FEB-96	3	3	
Nitrogen, Nitrate + Nitrite (mg/L)				
	08-FEB-96	.32	1.27	.29
Nitrogen, Total Kjeldahl (mg/L)				
	08-FEB-96	3.3	1.58	.45
Oil and Grease (mg/L)				
	08-FEB-96	24	3	< 1

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	29-JAN-96	22450	1430	1
	30-JAN-96			0
	31-JAN-96	12830	272	0
	01-FEB-96			0
	02-FEB-96	14500	450	0
	03-FEB-96			0
	04-FEB-96			0
	05-FEB-96	5000	592	0
	06-FEB-96			1
	07-FEB-96	3803	453	1
	08-FEB-96			1
	09-FEB-96	5780	320	0
	10-FEB-96			0
	11-FEB-96			0
	12-FEB-96	9253	467	0
	13-FEB-96			0
	14-FEB-96	5423	361	2
	15-FEB-96			0
	16-FEB-96	12235	776	0
	17-FEB-96			1
	18-FEB-96			0
	19-FEB-96	5000	423	0
	20-FEB-96			1
	21-FEB-96	24387	1055	3
	22-FEB-96			0
	23-FEB-96	9524	854	2
	24-FEB-96			1
	25-FEB-96			0
	26-FEB-96	7143	468	1
	27-FEB-96			1
	28-FEB-96	3810	124	1
	29-FEB-96			0
Phosphorus, Ortho (mg/L)				
	08-FEB-96	1.17	.97	.93

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Phosphorus, Phosphate (mg/L)				
	29-JAN-96	2.5	1.5	
	31-JAN-96	.5	.3	
	02-FEB-96	1	.4	
	05-FEB-96	.8	.3	
	07-FEB-96	.8	.4	
	09-FEB-96	.8	.5	
	12-FEB-96	.8	.5	
	14-FEB-96	.9	.7	
	16-FEB-96	.9	.5	
	19-FEB-96	.8	.3	
	21-FEB-96	.8	.2	
	23-FEB-96	1.2	.8	
	26-FEB-96	.7	.7	
	28-FEB-96	.8	.7	
Solids, Total Suspended (mg/L)				
	08-FEB-96	9	10	< 2
pH (S.U.)				
	29-JAN-96	6.6	7	6.5
	31-JAN-96	6.5	6.65	6.6
	02-FEB-96	6.7	6.6	6.9
	05-FEB-96	6.6	6.8	6.8
	07-FEB-96	6.4	6.8	6.5
	08-FEB-96	6.8	6.9	6.88
	09-FEB-96	6.6	6.7	6.8
	12-FEB-96	6.5	6.7	6.6
	14-FEB-96	6.5	6.8	6.7
	16-FEB-96	6.2	6.7	6.8
	19-FEB-96	6.3	6.7	6.8
	21-FEB-96	6.5	6.8	6.7
	23-FEB-96	6.5	6.6	6.6
	26-FEB-96	6.4	6.6	6.5
	28-FEB-96	6.4	6.6	6.5

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
08-FEB-96	2,3,4,6-Tetrachlorophenol (ug/L)	< 5000	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	< 5000	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	< 5000	< 10	< 10
	2,4-Dichlorophenol (ug/L)	< 5000	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 5000	< 10	< 10
	2,4-Dinitrophenol (ug/L)	< 10000	< 20	< 20
	2,6-Dichlorophenol (ug/L)	< 5000	< 10	< 10
	2-Chlorophenol (ug/L)	< 5000	< 10	< 10
	2-Methylphenol (ug/L)	< 5000	< 10	< 10
	2-Nitrophenol (ug/L)	< 5000	< 10	< 10
	3&4-Methylphenol (ug/L)	< 10000	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	< 5000	< 10	< 10
	4-Chloro-3-methylphenol (ug/L)	< 5000	< 10	< 10
	4-Nitrophenol (ug/L)	< 10000	< 20	< 20
	Dinoseb (ug/L)	< 5000	< 10	< 10
	Pentachlorophenol (ug/L)	26000	20	< 1
	Phenol (ug/L)	< 5000	< 10	< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
02/01/96	26.20	26.20	442180	0.00
02/02/96	23.79	23.79	476440	0.00
02/03/96	23.79	23.79	510700	0.00
02/04/96	23.79	23.79	544960	0.00
02/05/96	17.85	17.85	570670	0.00
02/06/96	25.76	25.76	607760	0.00
02/07/96	24.90	24.90	643610	0.00
02/08/96	24.91	24.91	679480	0.00
02/09/96	24.47	24.47	714720	0.00
02/10/96	24.47	24.47	749960	0.00
02/11/96	24.47	24.47	785200	0.00
02/12/96	23.00	23.00	809480	0.00
02/13/96	26.02	26.02	846950	0.00
02/14/96	25.69	25.69	883940	0.00
02/15/96	25.37	25.37	920470	0.00
02/16/96	25.37	25.37	957000	0.00
02/17/96	25.37	25.37	993530	0.00
02/18/96	25.37	25.37	1030060	0.00
02/19/96	26.39	26.39	1068060	0.00
02/20/96	25.43	25.43	1104680	0.00
02/21/96	25.97	25.97	1142070	0.00
02/22/96	25.97	25.97	1179460	0.00
02/23/96	25.27	25.27	1215850	0.00
02/24/96	25.27	25.27	1252240	0.00
02/25/96	25.27	25.27	1288630	0.00
02/26/96	20.67	20.67	1318390	0.00
02/27/96	28.41	28.41	1359300	0.00
02/28/96	27.20	27.20	1394950	0.00
02/29/96	28.60	28.60	1431950	0.00
AVERAGE:	25.00	25.00		0.00
TOTAL (2):			989770	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
2/1/96	1.72	0	0	0	0	1.72	0	3.44	0	0	6.88
2/2/96	1.72	0	0	0	0	0	0	3.44	0	0	5.16
2/3/96	3.44	0	0	0	0	1.72	0	3.44	0	1.72	10.32
2/4/96	3.44	1.72	0	0	0	0	0	5.16	0	0	10.32
2/5/96	3.44	0	0	0	0	1.72	0	5.16	0	0	10.32
2/6/96	5.16	1.72	0	0	0	1.72	0	3.44	0	0	12.04
2/7/96	5.16	0	0	0	0	1.72	0	3.44	0	0	10.32
2/8/96	5.16	0	0	0	0	1.72	0	3.44	1.72	0	12.04
2/9/96	10	0	0	0	0	1.72	0	1.72	1.72	1.72	16.88
2/10/96	5.16	0	0	0	0	1.72	0	1.72	0	0	8.60
2/11/96	5.16	0	0	0	0	0	0	3.44	1.72	1.72	12.04
2/12/96	6.88	1.72	0	0	0	1.72	0	1.72	0	0	12.04
2/13/96	3.44	1.72	0	0	0	3.44	0	3.44	0	0	12.04
2/14/96	5.16	1.72	0	0	0	5.16	0	3.44	0	0	15.48
2/15/96	1.72	1.72	0	0	0	7	0	3.44	1.72	1.72	17.32
2/16/96	5.16	0	0	0	0	3.44	0	3.44	0	0	12.04
2/17/96	3.44	0	0	0	0	3.44	0	3.44	0	0	10.32
2/18/96	3.44	0	0	0	0	1.72	0	1.72	0	0	6.88
2/19/96	8.6	0	0	0	0	3.44	0	1.72	0	0	13.76
2/20/96	5.16	1.72	0	0	0	1.72	0	3.44	0	0	12.04
2/21/96	3.44	0	0	0	0	3.44	0	3.44	0	0	10.32
2/22/96	3.44	0	0	0	0	1.72	0	5.16	0	1.72	12.04
2/23/96	3.44	1.72	0	0	0	1.72	0	7	0	0	13.88
2/24/96	8.6	0	0	0	0	3.44	0	3.44	0	0	15.48
2/25/96	3.44	0	0	0	0	1.72	0	6.88	0	1.72	13.76
2/26/96	10.32	0	0	0	0	1.72	0	5.16	0	0	17.20
2/27/96	3.44	0	0	0	0	1.72	0	3.44	1.72	0	10.32
2/28/96	1.72	0	0	0	0	1.72	0	3.44	0	1.72	8.60
2/29/96	3.44	0	1.72	0	0	3.44	0	5.16	0	1.72	15.48
Total:	133.84	13.76	1.72	0.00	0.00	65.48	0.00	106.76	8.60	13.76	343.92

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

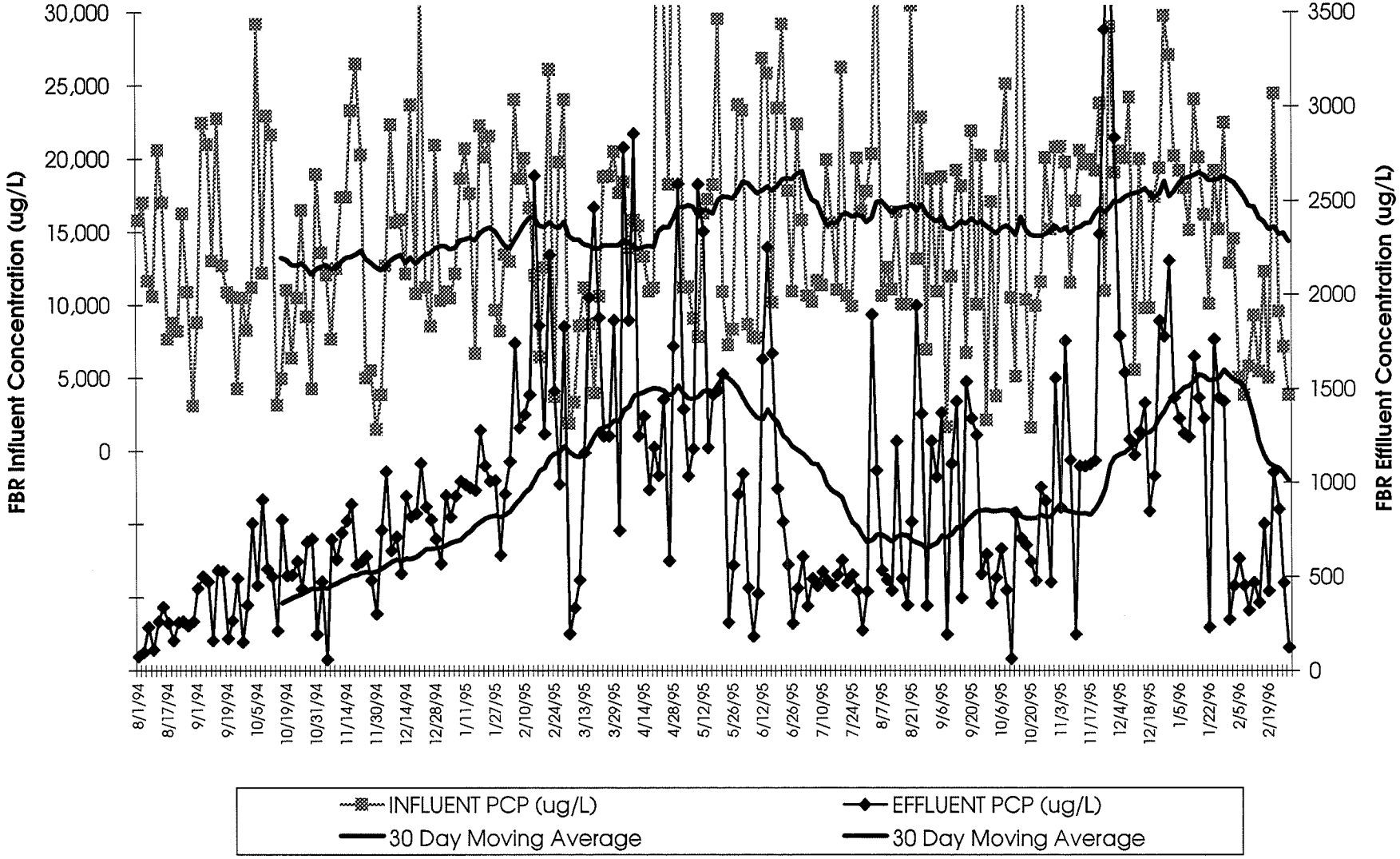
Well	December 29, 1995		January 31, 1996		February 29, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1163.35	-----	Frozen	-----	Frozen
PW02	-----	1163.30	-----	Frozen	-----	Frozen
PW03	-----	1163.53	-----	1163.35	-----	1162.98
PW3S	0.57	1160.56	0.66	1160.36	-----	Frozen
PW04	1.60	1156.90	0.10	1157.30	0.70	1156.10
PW05	-----	1157.33	0.20	1156.73	0.20	1155.43
PW06	0.41	1162.24	-----	Frozen	-----	Frozen
PW07	-----	1156.70	0.30	1156.40	0.75	1155.45
PW08	0.10	1161.52	0.24	1161.31	0.23	1161.14
PW9I	-----	1161.08	-----	1160.58	-----	1160.80
PW9O	-----	1162.19	-----	1162.14	-----	1161.89
PW10	1.05	1156.96	0.05	1160.21	0.45	1158.81
PW11	1.40	1159.55	0.15	1160.80	0.45	1163.15
PW12	-----	1163.41	-----	1163.26	-----	1163.01
PW13	0.30	1159.40	0.40	1159.30	0.50	1158.70
PW14	-----	Frozen	-----	Frozen	-----	Frozen
PW15	0.43	1160.11	0.70	1155.41	0.37	1157.89
PW16	0.70	1161.63	0.70	1161.58	0.15	1161.53
P01	0.47	1161.54	0.51	1161.42	0.60	1161.16
OW01	-----	1163.08	-----	Frozen	-----	Frozen
W01A	-----	1163.88	-----	1163.72	-----	1163.41
W01B	-----	1163.90	-----	1163.72	-----	1163.39
W02	-----	1162.94	-----	1162.89	-----	1162.58
W03A	-----	1161.54	-----	1161.53	-----	1161.34
W03B	-----	1161.74	-----	1160.72	-----	1161.59
W04A	0.61	1162.09	0.60	1162.10	0.45	1161.51
W04B	0.70	1161.93	0.42	1162.25	0.30	1162.18
W05	0.25	1161.78	0.31	1161.57	0.35	1161.43
W06R	-----	1163.71	0.05	1163.48	0.13	1163.14
W07	-----	1163.62	-----	Frozen	-----	Frozen
W08	-----	1172.98	-----	1172.83	-----	Frozen
W09	-----	1162.38	-----	1162.52	-----	1162.00
W10A	-----	1161.17	-----	1161.29	-----	1161.14
W10B	-----	1161.15	-----	1161.28	-----	1161.16
W11	-----	1160.90	-----	1160.82	-----	1160.65
W12	-----	1160.51	-----	1160.61	-----	1160.58
W13	-----	1161.54	-----	1161.62	-----	1161.39
W14	-----	1159.50	-----	1159.59	-----	1159.56
W16	-----	1161.76	-----	1162.11	-----	1162.10
W17	0.36	1161.34	0.30	1161.32	0.30	1161.02
W18	-----	1161.25	-----	1161.39	-----	1161.18
W19	-----	1163.28	-----	1163.22	-----	1163.03

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

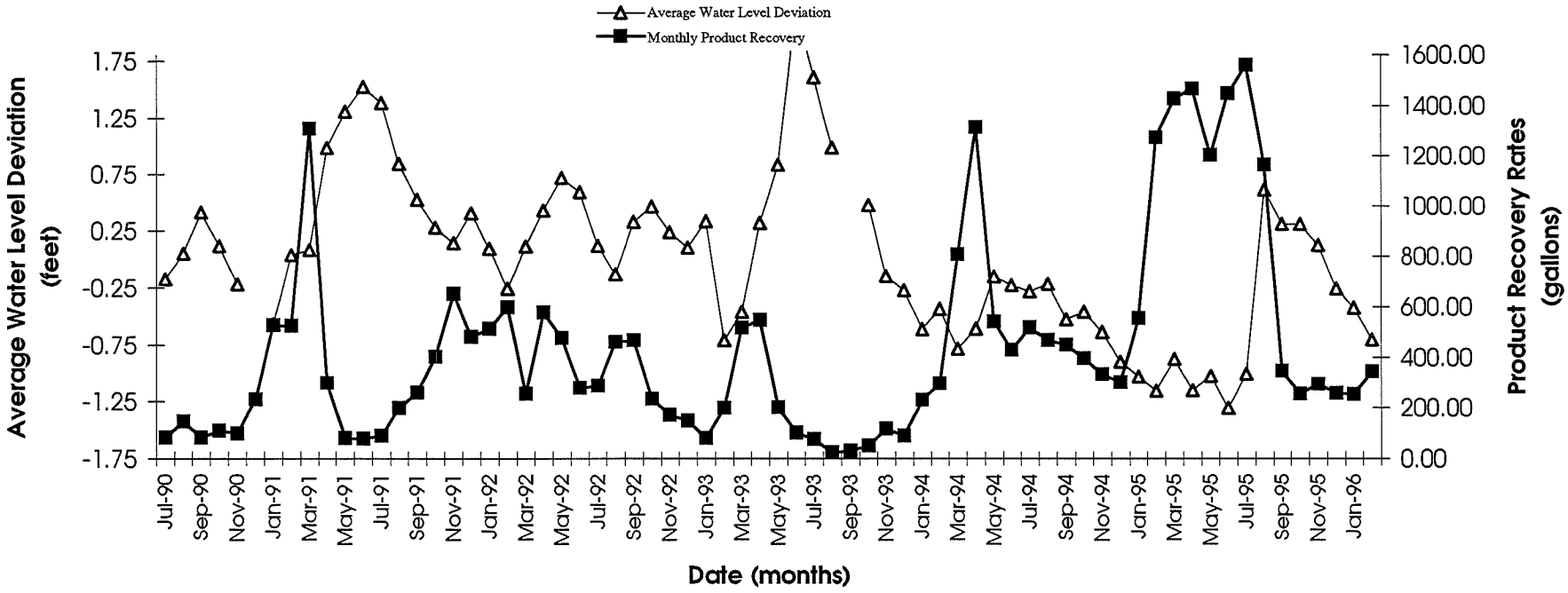
Well	December 29, 1995		January 31, 1996		February 29, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1160.59	-----	1160.52	-----	1160.34
W22	-----	1161.61	-----	1161.51	-----	1161.46
W23	-----	1160.80	-----	1160.93	-----	Frozen
W24A	-----	1160.64	-----	1160.76	-----	1160.72
W25	-----	1163.94	-----	1163.77	-----	1163.50
W26	-----	1161.00	-----	1161.12	-----	1161.00
W27	-----	1161.44	-----	1161.49	-----	1161.57
W28	-----	1161.30	-----	1161.44	-----	1161.22
W29	-----	1160.96	-----	1161.06	-----	1160.95
W30	1.10	1160.84	1.14	1160.70	1.20	1160.44
W31	-----	1160.97	-----	1161.10	-----	1161.01
W32	-----	1160.98	-----	1161.09	-----	1161.01
W33	-----	1162.55	-----	Frozen	-----	Frozen
W34	0.20	1158.80	0.15	1158.79	0.16	1158.59
W35	0.65	1161.84	1.07	1161.13	-----	Frozen
W36	-----	1162.21	-----	1162.23	0.09	1161.87
W39	-----	1162.42	-----	1162.37	-----	1162.17
W40	0.44	1161.24	-----	Frozen	-----	Frozen
W41	-----	1162.66	-----	Frozen	-----	Frozen
W42	0.61	1162.57	0.63	1162.51	0.45	1162.52
W44	0.28	1161.91	0.05	1162.07	0.05	1161.83
W45	0.05	1162.13	0.12	1162.01	0.12	1161.78
W46	0.87	1161.25	0.88	1160.24	0.80	1160.92
W47	0.40	1157.59	0.91	1157.60	1.20	1156.79
W48	0.60	1157.88	0.51	1157.90	0.60	1157.13
W49	0.75	1157.86	0.74	1157.80	0.80	1157.61
W66	-----	1163.56	-----	1162.42	-----	1163.16
W67	-----	1163.50	-----	1163.39	-----	1163.05
W68A	-----	1163.55	-----	1163.39	0.10	1163.00
W68B	-----	1163.49	-----	1163.29	-----	1163.09
W69	0.67	1162.13	0.68	1161.95	0.68	1161.85
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	Frozen	-----	Frozen	-----	Frozen

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



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FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



3/11/96

MONTGOMERY WATSON

March 6, 1996

RECEIVED
Wis. Dept. of Natural Resources
MAR 11 1996
N. C. Dist. Hqtrs.
Rhinelander, WI

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: Transmittal of 1995 Annual Groundwater Monitoring Report
WAULECO, Inc.
Wausau, Wisconsin

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies of the 1995 Annual Groundwater Monitoring Report for the WAULECO, Inc. site in Wausau, Wisconsin.

If you have any questions or comments, please call me at (608) 231-4747.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

1995 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

MARCH 1996

PREPARED FOR:
WAULECO, INC.
CITY, STATE
• • •
PREPARED BY:
MONTGOMERY WATSON
CITY, STATE

PROJECT NO. 4113.0020

MONTGOMERY WATSON

MONTGOMERY WATSON

March 6, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

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C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

1995 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

MARCH 1996

The following individuals were responsible for the preparation of this report: John D. Dadisman, Kenneth J. Quinn, and Douglas J. Bach. The hydrogeologist listed below meets the requirements of NR 500.03(64), Wisconsin Administrative Code.

John D. Dadisman
Senior Chemist

Kenneth J. Quinn, P.G.
Principal Hydrogeologist

Douglas J. Bach
Supervising Engineer

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Appendix C	Boring Log/Well Construction Details

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1995 Annual Groundwater Monitoring Report

Wauleco, Inc. Wausau Facility

INTRODUCTION

The 1995 Annual Groundwater Monitoring Report presents a summary of the groundwater data collected from the Wauleco, Inc., facility in Wausau, Wisconsin. The focus of this report is on groundwater data collected during the 3rd and 4th quarter sampling events for 1994, and the 1st and 2nd quarter sampling events for 1995. In addition, for comparison purposes this report includes historic groundwater data collected at the site starting in January 1987.

To support the presentation and interpretation of the groundwater monitoring data, this document contains the following information:

- Water table elevations and groundwater contour maps for December 1994 and June 1995 (Drawings B1 through B4)

- Apparent product thickness maps for December 1994 and June 1995 (Drawings B5 and B6)

- Chemical isoconcentrations maps based on July 1995 analytical results for:
  - Pentachlorophenol (PCP) (Drawing B7)
  - Benzene (Drawing B8)
  - Xylenes (Drawing B9)
  - Trichloroethylene (Drawing B10)
  - Naphthalene (Drawing B11)
  - Total Recoverable Petroleum Hydrocarbons (Drawing B12)
  - Chloride (Drawing B13)

- Data summary tables containing historical groundwater analytical results for each monitoring well (Appendix A)

- Time trend analysis depicting historical concentrations of PCP and chloride at each well on the monitoring program with four or more rounds of analytical results (Appendix B)

- Soil boring logs and well construction details (Appendix C).

BACKGROUND

Periodic groundwater sampling has occurred at the Wauleco, Wausau facility since at least January 1987. A formal Groundwater Monitoring Plan (GMP) was prepared for the site in January 1992, and with slight modifications, the first sampling round conducted under the GMP occurred during February 1992. Since 1992, a number of changes have occurred at the Wauleco property, including the demolition of most site buildings and regrading of the property. The physical changes at the property necessitated the proper abandonment of monitoring wells W6, W20, W37, and W38 and the installation of monitoring wells W6R, W68A, W68B, W69, and W70B. One monitoring well, W43 was lost during this time period due to utility work on the property. Improvements have also been made to the groundwater extraction and treatment system since 1992, including the discontinuation of the infiltration gallery, and the addition of pumping wells PW9 through PW14. Further modifications to the GMP have been made to accommodate the changes described above, and to streamline the monitoring effort. The resulting quarterly monitoring program is summarized in Table 1. The Groundwater Monitoring Report will be submitted on an annual basis following completion of the June (2nd quarter) round of sampling and analysis. In addition, quarterly monitoring data will continue to be submitted to WDNR with the monthly operation reports.

SAMPLING EVENT SUMMARY

The 1995 Annual Groundwater Monitoring Report provides a presentation and interpretation of data collected at the Wauleco site beginning in 1987 and continuing through June 1995. All sampling activities since 1992 have been conducted in accordance with the Wauleco Groundwater Monitoring Plan and WDNR conditional approvals. During each sampling event, water levels and product thickness measurements were first recorded, followed by purging of each well to be sampled. Wells included in the 3rd and 4th quarter 1994, and 1st and 2nd quarter 1995 monitoring program are shown on Table 2. Groundwater samples were not collected from wells that contained measurable product. Groundwater samples were submitted as appropriate for laboratory analysis of chloride by Method 325.3, nitrite + nitrate by Method 353.2, ammonia by Method 350.3, volatile organic compounds (VOCs) including naphthalene by Method 8021, phenolics by Method 8040, total recoverable petroleum hydrocarbons (TRPH) by Method 418.1, and dioxin/furans by Method 1613.

PRESENTATION OF RESULTS

Changes in groundwater level elevations influence dissolved contaminant concentrations, and apparent product thickness at the Wauleco site. Since 1992 groundwater levels increased substantially during the spring and summer of 1993, an unusually wet summer, declining to more "normal" conditions during 1994 and 1995. The previous Semi-Annual Groundwater Monitoring Report (dated December 1994), concluded that the increase and subsequent decrease in groundwater elevations lead to the increase in dissolved contaminant concentrations observed at the site in June 1994. During high water levels (summer 1993) groundwater was in contact with soils above the average water table which may have been contaminated by earlier high water events. As discussed in the following paragraphs, declining contaminant concentrations observed since June 1994 are likely attributable to the continuation of more normal water levels over the past year.

Drawings B1 and B2 show water table elevations from each well for December 1994 and June 1995 respectively; Drawings B3 and B4 show water table contours for the same periods. The 1,161.0 ft (MSL) contour lines on Drawing B3 around production wells PW3, PW4, PW10, PW13, and PW14, and around PW5, PW6, PW7, and PW11, shows the combined cone of depression around these extraction wells during December 1994. The 1160.5 contour on Drawing B4 shows the expansion of the area of influence for these pumping wells as of June 1995. Changes in the area of pumping well influence between 1994 and 1995 is partially attributable to the lower more stable water levels during the period, the addition of pumping wells PW13 and PW14, and a more aggressive well redevelopment program. Starting in December 1994 a routine program of well redevelopment utilizing both physical and chemical methods was initiated to overcome problems at certain wells with bio-fouling at the well screens (or the filter pack). Bio-fouling reduces the pumping capacity of a well. The redevelopment program allows greater ability to maintain lower water levels in the source area which enhances product recovery.

Apparent product thickness December 1994 and June 1995 are depicted on Drawings B5 and B6 respectively. Apparent product thickness represents a measurable thickness of product which has moved into a monitoring well. While apparent product thickness indicates the presence of product at the monitoring well location, it does not necessarily reflect the actual thickness of free product above the water table. Generally, as groundwater levels increase, apparent product thickness will decrease, and as water levels decline, apparent product thickness will increase. The reason for this is that when water levels are high, the non-aqueous phase product is trapped in the aquifer soil pore spaces where the greater surface tension at the water/oil interface prevent the free movement of product. As water levels decline, the surface tension at the water/oil interface is minimized allowing free movement of product into the monitoring well. The effect of water levels on apparent product thickness is evident on Drawings B5 and B6. The areal extent of apparent product thickness in June 1995 (Drawing B6) appears larger than December 1994 (Drawing B5), due to the decrease in water levels over the same period of time.

The same influence of water levels on product movement to monitoring wells, occurs in product movement to extraction wells. Figure 1 shows the relationship between product recovery and groundwater levels at the site. Product recovery for the twelve month period of October 1994 through September 1995 totaled 11,467-gal compared to 5,306-gal during the same '93-'94 period, and 2,324-gal during '92-'93. The increased success in product removal can be attributed to the addition of new extraction wells, the decrease in water levels due to both favorable weather conditions, and the well redevelopment program.

A summary of the analytical results for each monitoring wells location is provided in Appendix A. Time trend graphs for PCP and chloride are provided in Appendix B. Isoconcentration maps for PCP, benzene, xylenes, trichloroethylene (TCE), naphthalene, total recoverable petroleum hydrocarbons (TRPH), and chloride concentrations are provided in Drawings B7 through B13.

The results for the July 1995 samples are generally consistent with historic groundwater quality data for the site. Isoconcentration maps, as depicted in Drawings B7 through B13 and compared to previous monitoring events (June 1993 and 1993), indicate relatively minor changes in the apparent area of groundwater influence for each parameter, except that the isoconcentration contours for benzene, xylenes, trichloroethylene (TCE), and naphthalene were left open upgradient of the site. Isoconcentrations for the June 1995 results generally indicate a slight decrease in the affected area and overall concentrations for most parameters when compared to the June 1994 results. Following is a summary of changes/trends in specific contaminant concentrations since June 1994:

- **PCP** -The areal extent of PCP concentrations within the 300 ug/L contour is approximately the same as in 1994. However, concentrations at individual monitoring well locations were generally one-half or less than those detected in 1994. This type of response to water levels would occur if PCP were present in the soils above the average water table elevation. As water levels increased in response to the unusually high rainfall amounts during summer 1993, groundwater came into contact with the contaminated soils. The subsequent decrease in water levels during winter 1993 and summer 1994, caused the PCP to be drawn into solution, resulting in the apparent increases seen in these wells in 1994. As more typical groundwater levels prevail, the dissolved contaminants are flushed from the system resulting in the lower concentrations observed during the most recent sampling round (June 1995). This type of scenario would occur if contaminated groundwater had historically been in contact with the soils above the current water table.

- **Benzene** - Benzene concentrations above the 1 ug/L contour were isolated to the south and east of the Wauleco site (see Drawing B8). Benzene has been detected at wells W2 and W18 during previous sampling events, but this compound was not detected north of the south property line. At the monitoring well locations where detected, benzene concentrations tended to be higher than in June 1994.

- **Total Xylenes** - As with benzene, the total xylenes concentrations above the 124 ug/L contour were located south and east of the Wauleco site. Concentrations were higher than June 1994 in samples from wells W19, W41, W27, and W10A. Xylenes were also detected in the sample from well W14, where they had not previously been found.

- **Trichloroethylene** - The areal extent for TCE concentrations above 5 ug/L is similar to previous sampling rounds, except that the isocontour is left open upgradient of the Wauleco site, and a second contour is drawn around wells W12 and W14. As with the total xylenes, TCE has not been previously detected at well W14.

- **Naphthalene** - The 1995 results for naphthalene are similar to xylenes, in that the values above the isoconcentration contour are to the south and east of the Wauleco site, and this compound was not previously detected at well W14.

- **TRPH** - The TRPH isocontour for 1995 is almost identical to June 1994. While TRPH concentrations in samples from individual wells may be higher or lower than previous sampling events, the overall site concentrations were similar.

- **Chloride** - While chloride concentrations in groundwater could be useful in assessing PCP degradation in situ, the influence of road salt runoff in an urban area appears to mask any trends or changes attributable to degradation. The contour map for chloride concentrations detected in 1995 indicates a larger area within the 125 mg/L contour when compared to June 1994.

SUMMARY AND CONCLUSIONS

The June 1995 sampling event represents the thirteenth round of groundwater sampling conducted under the Wauleco Groundwater Monitoring Plan (GMP). The first sampling event conducted under the GMP occurred in February 1992, although, routine groundwater sampling at selected wells had been ongoing since 1987.

As described in previous groundwater monitoring reports, changes in groundwater elevations at the site influence dissolved contaminant concentrations in groundwater samples, and the apparent product thickness observed in monitoring wells. Groundwater levels also have a significant effect on product recovery in production wells. Since 1992, groundwater levels increased substantially during the spring and summer of 1993, an unusually wet summer, declining to more "normal" conditions during 1994 and 1995. The lower water levels have resulted in lower PCP concentrations observed in groundwater and generally higher apparent product thickness at certain monitoring well locations and improved product recovery. When compared to historic groundwater data for the site, PCP concentrations were generally lower during the September 1994 through June 1995 sampling period. During 1994 and 1995, additional production wells were brought on line, and an aggressive well redevelopment program was initiated for certain product recovery

wells. These changes, along with the more normal water level conditions resulted in increased success in product removal at the site. Product recovery for the twelve month period of October 1994 through September 1995 totaled 11,467-gal compared to 5,306-gal during the same '93-'94 period, and 2,324-gal during '92-'93.

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TABLE 1

GROUNDWATER MONITORING PROGRAM
WAULECO, INC.
WAUSAU, WISCONSIN

Well Location	Quarterly	Semi-Annual	Annual	Rationale for Sampling Frequency
W1A	Q	S	A	No change in frequency.
W2	Q	S	A+	No change in frequency.
W3A	Q	S	A+	No change in frequency.
W3B			A+	The deep well at this location has shown low concentrations, well W3A is the primary monitoring point at this location.
W6R	Q	S	A	This is a replacement well for W6; no change in frequency.
W8	Q	S	A+	No change in frequency.
W9			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W10A			A+	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W10B			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W11			A+	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W12			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W13		S	A	No change in frequency.
W14			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W16			A+	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W17	Q	S	A	No change in frequency.
W18			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W19		S	A	No change in frequency.
W21			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W22	Q	S	A	No change in frequency.
W25		S	A+	This well is a secondary upgradient well.
W26		S	A+	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W27			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W28			A+	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W29			A+	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W32			A	Well is >500 ft downgradient of the extraction system, therefore, changes in water quality occur only over a long term period.
W33	Q	S	A+	No change in frequency.
W36	Q	S	A+	No change in frequency.
W39	Q	S	A	No change in frequency.
W40		S	A	This well is located along a second line of downgradient monitoring.
W41		S	A	No change in frequency.
W69	Q	S	A	This is a replacement well for W37 and W38; no change in frequency.

Notes:

Q = Designates well locations to be sampled during the 4th quarter and analyzed for:
phenolic compounds, chloride, nitrite + nitrate, ammonia, field pH, and field specific conductance.

S = Designates well locations to be sampled during the 1st and 3rd quarters and analyzed for:
phenolic compounds, chloride, nitrite + nitrate, ammonia, field pH, and field specific conductance.

A = Designates well locations to be sampled during the 2nd quarter and analyzed for: choride, naphthalene, phenolic compounds, total recoverable petroleum hydrocarbons, volatile organic compounds, nitrite + nitrate, ammonia, field pH, and field specific conductance.

A+ = Designates well locations to be sampled during the 2nd quarter and analyzed for: the parameters described above under "A" plus dioxin/furans.

TABLE 2

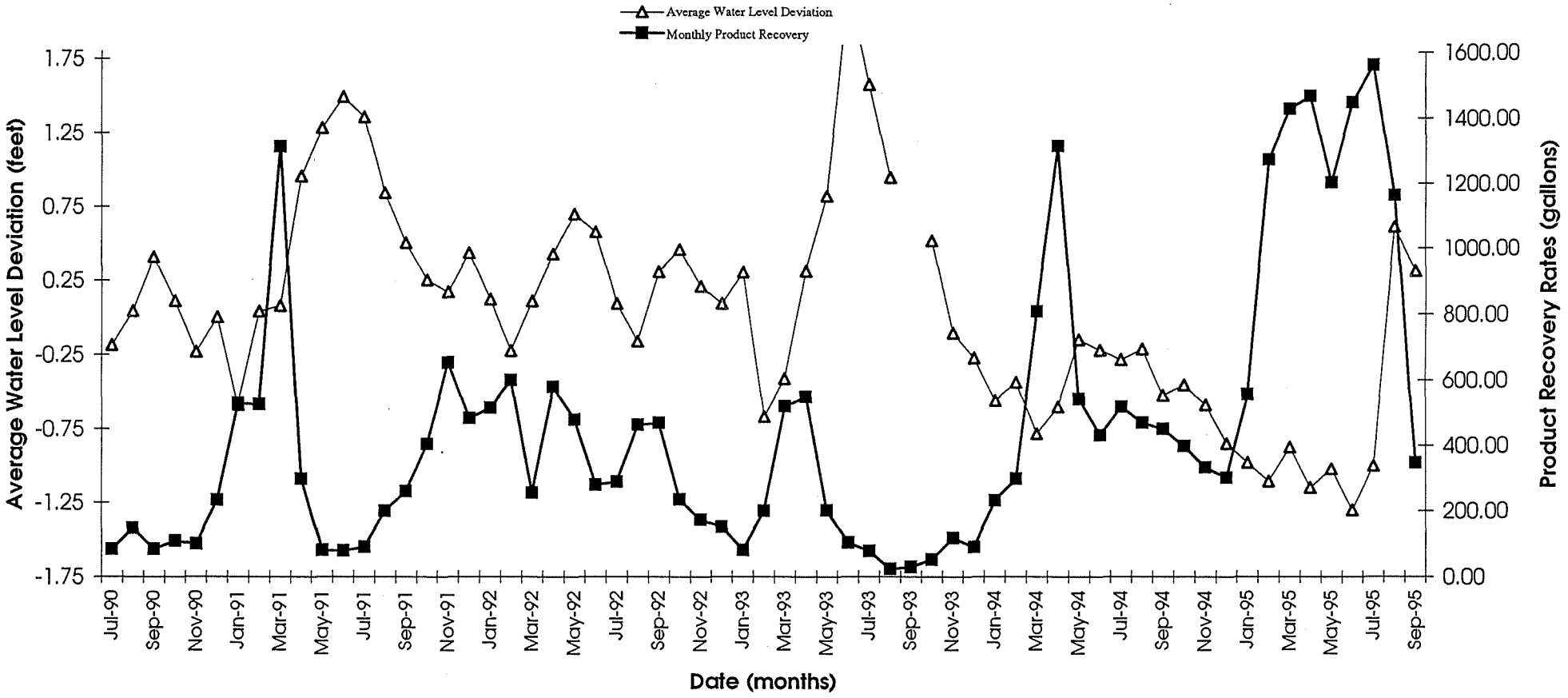
SUMMARY OF GROUNDWATER SAMPLING LOCATIONS
WAULECO, INC.
WAUSAU, WISCONSIN

Well Location	3rd Quarter 1994	4th Quarter 1994	1st Quarter 1995	2nd Quarter 1995
W1A	X	X	X	X
W2	X	X	X	X+
W3A	X	X	X	X+
W3B				X+
W6R	X	Product	Product	Product
W8	X	X	X	X+
W9				X
W10A				X+
W10B				X
W11				X+
W12				X
W13	X		X	X
W14				X
W16				X+
W17	Product	Product	Product	Product
W18				X
W19	X		X	X
W21				X
W22	X	X	X	X
W25	X		X	X+
W26	X		X	X+
W27				X
W28				X+
W29				X+
W32				X
W33	X	Product	Product	Product
W36	Product	Product	Product	Product
W39	Product	Product	X	Product
W40	Product		Product	Product
W41	X		X	X
W69	Product	Product	Product	Product

Notes:
3rd Quarter 1994 samples collected on October 5, 1994.
4th Quarter 1994 samples collected on January 5, 1995.
1st Quarter 1995 samples collected on March 9 and 10, 1995.
2nd Quarter 1995 samples collected on July 5 and 6, 1995.

JDD/jkl/DJB/KJQ
J:/wauleco/qrtly/jun95/TABLES.XLS

FIGURE 1
Average Water Level Deviation Versus Product Recovery Rates



j:/wauleco/ONM94/MNTLY.XLS
11/1/95

A

ANALYTICAL RESULTS

A1 Indicators
A2 Phenolics
A3 Volatiles
A4 Dioxin/Furans

A1

INDICATORS

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W01A

Parameter	02/19/92	06/14/92	09/17/92	12/18/92	03/23/93	06/28/93	12/28/93	04/25/94	06/21/94
Field Conductivity @ 25 Deg C (umhos			370	270	500	420	440	595	539
Field pH (S.U.)			6.12	6.16	6.36	5.94	6.6	5.78	6.25
Temperature (Deg. C)			15	7		13	11.5	12	13.5
#2 Fuel Oil (mg/L)									
Chloride (mg/L)	107	85.2	89.8	62.5	83	77	92	117	96
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)			< 1	< 1	.24	.11	< .2	.27	.15
Nitrogen, Nitrate (mg/L)	3.32	2.94	1.97	2.58					
Nitrogen, Nitrate + Nitrite (mg/L)					2.22	2.18	2.86	1.36	1.62
Phosphorus, Phosphate (mg/L)			1.86						
TRPH (ug/L)	< 630	< 500	< 500	11000	2500	2800	< 1000		6000
pH (S.U.)						< 2			
Sodium (ug/L)			43000	33000	36600				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	01/05/95	03/10/95	07/05/95
Field Conductivity @ 25 Deg C (umhos				660
Field pH (S.U.)				6
Temperature (Deg. C)				13
#2 Fuel Oil (mg/L)				< .25
Chloride (mg/L)	93	103	115	136
Gasoline (mg/L)				< .25
Kerosene (mg/L)				< .25
Mineral Spirits (mg/L)				.38
Nitrogen, Ammonia (mg/L)	.24	.37	.23	.17
Nitrogen, Nitrate (mg/L)				
Nitrogen, Nitrate + Nitrite (mg/L)	2.3	1.69	2.2	2.77
Phosphorus, Phosphate (mg/L)				
TRPH (ug/L)				
pH (S.U.)				
Sodium (ug/L)				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W02 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/02/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	365	460	480	480	549	632	595	439	435
Field pH (S.U.)	6.2	5.6	7	6.6	4.9	6.4	6.6	6	6.1
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	7.01	6.62	3.9	1.66	3.49	3.68	7.44	12	4.37
Chloride (mg/L)					125	119	133	122	128
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	2.94	2.73	3.56	3.56	3.16	3.73	1.47	.99	1.94
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	< 5	< 5	< 6	14.7	< 6	8.53	9.39	6.45
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	436	491	421	347	457	441	585	419	437
Solids, Total Suspended (mg/L)	3848	9260	11100	1480	1590	1900	2040	352	629
Sulfate (mg/L)	30.2	29.9	20.5	38.5	32.4	27	37.9	28.8	< 10
TRPH (ug/L)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	44.6								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	1538								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	371								
Iron (ug/L)	< 100	140							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W02 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/30/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	460	450	463	350	500	465	419	320	428
Field pH (S.U.)	6.2	6.3	5.9	6.2	6.2	6.2	6.3	6.3	5.9
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	10.5	50.4	4.91	13.3	10.6	7.24	11.9	14.2	23.9
Chloride (mg/L)	144	103	127	95.4	129	132	97.5	95.8	107
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.71	.78	1.05	.3	.61	.66	1.83	4.71	4.13
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	19.3	7.76	< 6	11.4	< 6	9.21	< 6	11.6	20
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	373	1720	473	331	462	428	403	364	477
Solids, Total Suspended (mg/L)	2660	1200	1380	1190	808	1320	1900	936	894
Sulfate (mg/L)	31	32.6	35.8	31.7	10.6	29.4	33.6	35.9	32.5
TRPH (ug/L)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W02

Parameter	10/08/91	02/20/92	06/14/92	09/17/92	12/18/92	03/24/93	04/25/94	06/22/94	10/04/94
Field Conductivity @ 25 Deg C (umhos	490			650	610	985	800	729	
Field pH (S.U.)	5.7			5.91	6.3	6.09	5.53	5.74	
Temperature (Deg. C)				19	6		12.5	23	
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	14								
Chloride (mg/L)	117	119	128	158	182	239	151	146	117
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)				< 1	< 1	.17	.17	< .1	.16
Nitrogen, Nitrate (mg/L)	< .02	< .02	.054	.023	.093				
Nitrogen, Nitrate + Nitrite (mg/L)						.55	.18	1.46	.13
Oil and Grease (mg/L)	12.7								
Phosphorus, Phosphate (mg/L)				2.52					
Solids, Total Dissolved (mg/L)	450								
Solids, Total Suspended (mg/L)	1460								
Sulfate (mg/L)	29.8								
TRPH (ug/L)		1110	< 500	< 500	35000	3500		5500	
Arsenic (ug/L)	< 10								
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200								
Barium, Total (ug/L)									
Chromium (ug/L)	< 10								
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)				65800	68300	88600			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	01/05/95	03/10/95	07/06/95
Field Conductivity @ 25 Deg C (umhos			650
Field pH (S.U.)			6.3
Temperature (Deg. C)			13.5
#2 Fuel Oil (mg/L)			< .25
Carbon, Total Organic (mg/L)			
Chloride (mg/L)	120	117	113
Gasoline (mg/L)			< .25
Kerosene (mg/L)			< .25
Mineral Spirits (mg/L)			8.8
Nitrogen, Ammonia (mg/L)	< .1	.13	.41
Nitrogen, Nitrate (mg/L)			
Nitrogen, Nitrate + Nitrite (mg/L)	1.11	1.34	.79
Oil and Grease (mg/L)			
Phosphorus, Phosphate (mg/L)			
Solids, Total Dissolved (mg/L)			
Solids, Total Suspended (mg/L)			
Sulfate (mg/L)			
TRPH (ug/L)			
Arsenic (ug/L)			
Arsenic, Total (ug/L)			
Barium (ug/L)			
Barium, Total (ug/L)			
Chromium (ug/L)			
Chromium, Total (ug/L)			
Iron (ug/L)			
Sodium (ug/L)			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03A 1

Parameter	02/25/92	06/17/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	04/25/94	06/22/94
Field Conductivity @ 25 Deg C (umhos			468	460	685	620	685	671	658
Field pH (S.U.)			6.28	6.2	6.05	5.84	7.3	5.64	5.77
Temperature (Deg. C)			12	6		13	11.5	13	13
#2 Fuel Oil (mg/L)									
Chloride (mg/L)	95.2	90.2	84.2	105	114	100	110	88	70
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)				< 1	.36	.33	< .2	.19	.31
Nitrogen, Nitrate (mg/L)	< .02	< .02	< .02	.182					
Nitrogen, Nitrate + Nitrite (mg/L)					.22	8.73	.67	< .02	.33
Phosphorus, Phosphate (mg/L)			2.76						
TRPH (ug/L)	6000	< 500	1600	114000	37000	49000	200000		220000
pH (S.U.)						< 2			
Arsenic (ug/L)		< 1	< 1						
Sodium (ug/L)			37000	42600	42500				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	01/05/95	03/09/95	07/06/95
Field Conductivity @ 25 Deg C (umhos				645
Field pH (S.U.)				6.2
Temperature (Deg. C)				11.5
#2 Fuel Oil (mg/L)				< 13
Chloride (mg/L)	62	64	77	64
Gasoline (mg/L)				< 13
Kerosene (mg/L)				< 13
Mineral Spirits (mg/L)				190
Nitrogen, Ammonia (mg/L)	.12	< .1	.19	.76
Nitrogen, Nitrate (mg/L)				
Nitrogen, Nitrate + Nitrite (mg/L)	.11	.05	.05	.1
Phosphorus, Phosphate (mg/L)				
TRPH (ug/L)				
pH (S.U.)				
Arsenic (ug/L)				
Sodium (ug/L)				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/29/91	12/22/91	06/18/92	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95
Field Conductivity @ 25 Deg C (umhos				360	495	685	536	985
Field pH (S.U.)				6.28	6.25	6.15	5.97	6.12
Temperature (Deg. C)				5	10.5	11.5	16	11.5
#2 Fuel Oil (mg/L)								< .25
Alkalinity, Bicarbonate (mg/L)	209	223						
Alkalinity, Total (mg/L)	209	223						
Carbon, Total Organic (mg/L)								
Chloride (mg/L)	172	118	82.6	39.3	40	135	67	204
Gasoline (mg/L)								< .25
Kerosene (mg/L)								< .25
Mineral Spirits (mg/L)								< .25
Nitrogen, Ammonia (mg/L)			1.36	< 1	.27	.83	.58	.91
Nitrogen, Nitrate (mg/L)			< .02	.063				
Nitrogen, Nitrate + Nitrite (mg/L)					.5	.08	.23	.1
Oil and Grease (mg/L)								
Phosphorus, Phosphate (mg/L)	1.25	2.69	2.99					
Solids, Total Dissolved (mg/L)								
Solids, Total Suspended (mg/L)								
Sulfate (mg/L)	11.5	7.5						
TRPH (ug/L)			< 500	3000	< 1000	< 1000	< 1000	
pH (S.U.)					< 2			
Arsenic (ug/L)								
Barium (ug/L)	211	< 200						
Calcium (ug/L)	67600	50000						
Chromium (ug/L)								
Iron (ug/L)								
Magnesium (ug/L)	17600	13100						
Potassium (ug/L)	< 5000	< 5000						
Sodium (ug/L)	90300	83800		76400				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W09 2

Parameter	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91	10/08/91
Field Conductivity @ 25 Deg C (umhos	430	400	345	600	342	292	450	491	550
Field pH (S.U.)	6.5	6.3	6.3	6.2	6.5	6.5	6.1	6.5	6.2
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Alkalinity, Total (mg/L)									
Carbon, Total Organic (mg/L)	31.8	8.25	7.84	15.9	12.1	5.91	8.42	9.83	70.8
Chloride (mg/L)	44.7	45.6	58.8	71	32.5	98.4	153	144	142
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.12	.2	.07	.02	.04	.06	.04	.65	.44
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 6	< 5	< 6	< 6	< 5	< 6	< 6	< 6	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	358	344	333	366	346	416	493	527	526
Solids, Total Suspended (mg/L)	962	960	579	291	490	336	467	454	1260
Sulfate (mg/L)	12.3	10	9	4.9	3.2	12.1	11.2	13.1	8.5
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	257	< 200
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iron (ug/L)									
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W09 1

Parameter	06/04/87	09/03/87	12/03/87	03/02/88	04/07/88	08/10/88	11/15/88	01/26/89	04/27/89
Field Conductivity @ 25 Deg C (umhos	520	600	460	515	440	480	340	355	392
Field pH (S.U.)	5.9	6.1	6.7	5.2	6.5	6.9	6.3	6.4	6.4
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Alkalinity, Total (mg/L)									
Carbon, Total Organic (mg/L)	19.4	7.47	8.63	8.33	7.3	10.6	8.68	6.83	6.79
Chloride (mg/L)	117	71.9	40	51.4	48	45.6	35	39.1	55
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.22	.04	< .02	.08	.13	.02	.05	.03	.09
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	8.15	11.2	< 6	13.4	< 5	9.35	< 6	6.47	6.92
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	455	381	312	336	272	163	1330	310	338
Solids, Total Suspended (mg/L)	8790	860	407	1260	812	6430	128	294	987
Sulfate (mg/L)	< 10	< 10	22	13.8	17.3	29.9	< 10	< 10	10.9
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10			< 10	< 10	< 10		< 10
Barium (ug/L)	< 200	< 200			< 200	< 200	< 200		< 200
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10			< 10	< 10	< 10		< 10
Iron (ug/L)	3980								
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	12/27/93	04/25/94	06/21/94	10/04/94	01/05/95	03/09/95	07/06/95
Field Conductivity @ 25 Deg C (umhos	410	397	362				420
Field pH (S.U.)	7.1	5.72	6.08				6.1
Temperature (Deg. C)	11.5	11.5	13				12
#2 Fuel Oil (mg/L)							< .25
Alkalinity, Bicarbonate (mg/L)							
Carbon, Total Organic (mg/L)							
Chloride (mg/L)	62	74	72	56	60	82	76
Gasoline (mg/L)							< .25
Kerosene (mg/L)							< .25
Mineral Spirits (mg/L)							< .25
Nitrogen, Ammonia (mg/L)	< .2	.1	< .1	< .1	< .1	< .1	.13
Nitrogen, Nitrate (mg/L)							
Nitrogen, Nitrate + Nitrite (mg/L)	2.58	2.72	2.41	.44	2.44	2.52	2.53
Oil and Grease (mg/L)							
Phosphorus, Phosphate (mg/L)							
Sulfate (mg/L)							
TRPH (ug/L)	< 1000		< 1000				
pH (S.U.)							
Arsenic (ug/L)							
Barium (ug/L)							
Barium, Total (ug/L)							
Calcium (ug/L)							
Chromium (ug/L)							
Chromium, Total (ug/L)							
Iron (ug/L)							
Magnesium (ug/L)							
Potassium (ug/L)							
Sodium (ug/L)							

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 3

Parameter	10/08/91	10/29/91	12/22/91	02/20/92	06/14/92	09/17/92	12/19/92	03/23/93	06/28/93
Field Conductivity @ 25 Deg C (umhos	290					280	260	390	410
Field pH (S.U.)	6.3					6.69	6.44	6.32	6.09
Temperature (Deg. C)							6		11.5
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)		79.4	54.5						
Carbon, Total Organic (mg/L)	2.94								
Chloride (mg/L)	48.6	42.6	31.7	33.7	73	58	59.8	60	66
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)						< 1	< 1	.2	.18
Nitrogen, Nitrate (mg/L)	.86			2.87	2.66	2.98	2.38		
Nitrogen, Nitrate + Nitrite (mg/L)								5.06	1.85
Oil and Grease (mg/L)	< 6								
Phosphorus, Phosphate (mg/L)						1.53			
Sulfate (mg/L)	21.8	18	17.2						
TRPH (ug/L)					< 500	< 500	2000	< 500	< 1000
pH (S.U.)									< 2
Arsenic (ug/L)	< 10								
Barium (ug/L)	< 200	< 200	< 200						
Barium, Total (ug/L)									
Calcium (ug/L)		38600	25400						
Chromium (ug/L)	< 10								
Chromium, Total (ug/L)									
Iron (ug/L)									
Magnesium (ug/L)		10500	6970						
Potassium (ug/L)		< 5000							
Sodium (ug/L)		13500	10800			15700	16000	15300	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	140	178	150	118	165	165	140	120	112
Field pH (S.U.)	6.5	6.5	6.3	6.5	6.5	6.8	6.8	6.4	6.4
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Carbon, Total Organic (mg/L)	2.82	50.4	3.06	2.99	2.58	2.69	5.52	4.12	5.96
Chloride (mg/L)	19	20.8	18	16.4	16	19.5	17.5	19.7	14.4
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.63	1.01	.59	.5	.35	.3	.58	.74	.58
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	8.77	< 6	< 6	< 6	< 6	< 5	< 6	< 6	< 6
Phosphorus, Phosphate (mg/L)									
Sulfate (mg/L)	20.7	25.5	21.5	24.3	20.5	8.3	14.6	16.3	10.6
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)									
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	145	212	175	165	210	238	165	136	160
Field pH (S.U.)	6.5	5.5	6.3	6.7	6.2	6.6	6.8	6.1	6.5
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Carbon, Total Organic (mg/L)	6.28	2.74	2.9	3.52	2.44	4.7	3.3	3.59	1.93
Chloride (mg/L)	33	28.1	24	17.2	25.7	25.5	18.2	23	21.5
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	< .02	2.18	.99	.54	.73	1.1	.49	.57	.51
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	< 5	18.5	< 6	< 6	7.38	< 6	9.22	< 6
Phosphorus, Phosphate (mg/L)									
Sulfate (mg/L)	22.7	< 10	26	30.1	20.7	31.5	79.1	13	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	765								
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	96								
Iron (ug/L)	250	130							
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W06R

Parameter	12/28/93	10/04/94
Field Conductivity @ 25 Deg C (umhos	810	
Field pH (S.U.)	5.75	
Temperature (Deg. C)	11.5	
Chloride (mg/L)	178	167
Nitrogen, Ammonia (mg/L)	.7	.11
Nitrogen, Nitrate + Nitrite (mg/L)	.67	.22
TRPH (ug/L)	48000	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W06 1

Parameter	02/20/92	09/17/92
Field Conductivity @ 25 Deg C (umhos		920
Field pH (S.U.)		6.58
Temperature (Deg. C)		15
Chloride (mg/L)	138	235
Nitrogen, Ammonia (mg/L)		1.39
Nitrogen, Nitrate (mg/L)	.039	2.31
Phosphorus, Phosphate (mg/L)		.63
TRPH (ug/L)	1020	< 500
Sodium (ug/L)		117000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03B 1

Parameter	06/17/91	02/22/92	09/17/92	12/18/92	03/23/93	06/29/93	12/28/93	06/22/94	07/06/95
Field Conductivity @ 25 Deg C (umhos			140	122	185	225	180	192	175
Field pH (S.U.)			7.48	6.96	7.25	6.7	6.75	7.02	6.18
Temperature (Deg. C)			12	6		13	11.5	14	12
#2 Fuel Oil (mg/L)									< .25
Chloride (mg/L)	18	16.5	12.2	13.4	14	18	14	15	14
Gasoline (mg/L)									< .25
Kerosene (mg/L)									< .25
Mineral Spirits (mg/L)									< .25
Nitrogen, Ammonia (mg/L)			< 1	< 1	< .1	.33	< .2	< .1	.2
Nitrogen, Nitrate (mg/L)	4.2	4.62	4.59	3.58					
Nitrogen, Nitrate + Nitrite (mg/L)					3.75	3.47	3.88	4.23	3.66
Phosphorus, Phosphate (mg/L)	.159		.14						
TRPH (ug/L)	6000	1000	1100	3000	< 500	< 1000	< 1000	< 1000	
pH (S.U.)						< 2			
Arsenic (ug/L)	< 1								
Sodium (ug/L)			< 5000	5970	4900				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	12/12/90	01/30/91
Field Conductivity @ 25 Deg C (umhos	500	690	550	510	700	710		610	490
Field pH (S.U.)	6.6	6.2	6.4	6.4	6.4	6.4		6.4	6.3
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Alkalinity, Total (mg/L)									
Carbon, Total Organic (mg/L)	2.69	36.2	2.33	3.45	3.35	2.57		5.94	5.44
Chloride (mg/L)	134	170	157	180	186	178		190	198
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	8.03	9.78	7.28	5.91	9.75	11	11.5		11.1
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 6	< 6	< 6	< 6	< 6	< 5		< 5	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	476	680	5.49	525	626	621		615	543
Solids, Total Suspended (mg/L)	5860	4480	2460	2890	1750	3570		2040	1280
Sulfate (mg/L)	27.2	27.4	29.6	25	28.8	29		29.3	29.6
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200		< 200	< 200
Barium, Total (ug/L)									
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	419	600	750	675	768	737	620	500	600
Field pH (S.U.)	6.4	6.1	6.1	7	6.4	6.3	6.7	6.4	6.5
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Alkalinity, Total (mg/L)									
Carbon, Total Organic (mg/L)	5.8	5.26	3.93	4.1	2.33	4.06	4.84	4.12	2.59
Chloride (mg/L)	175	162	177	159	164	141	121	131	136
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	8.8	11.8	9.27	7.95	10.1	10.3	12.6	11.1	8.12
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	11.6	16	< 6	15.4	< 5	6.88	10	< 5
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	762	605	552	449	490	4.85	322	519	471
Solids, Total Suspended (mg/L)	1168	14900	12100	2080	880	6650	22200	519	2880
Sulfate (mg/L)	31.6	36.8	24.1	35.9	31	25.3	39.9	< 10	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	377								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	4440								
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	479								
Iron (ug/L)	< 100	< 100							
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14 3

Parameter	05/01/91	06/18/91	10/08/91	06/24/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
Field Conductivity @ 25 Deg C (umhos	510		490		258	795	755	769	730
Field pH (S.U.)	6.6		6.4		6.49	6.26	6.8	5.8	6.1
Temperature (Deg. C)					6	12	11.5	14	12
#2 Fuel Oil (mg/L)									< .25
Carbon, Total Organic (mg/L)	8.06		1.78						
Chloride (mg/L)	115		114	114	94.7	110	113	112	117
Gasoline (mg/L)									< .25
Kerosene (mg/L)									< .25
Mineral Spirits (mg/L)									< .25
Nitrogen, Ammonia (mg/L)					< 1	< .1	< .2	< .1	.4
Nitrogen, Nitrate (mg/L)	6.3	2	6.47	6.04	5.78				
Nitrogen, Nitrate + Nitrite (mg/L)						5.76	4.68	4.18	4.51
Oil and Grease (mg/L)	< 5		< 6	6					
Phosphorus, Phosphate (mg/L)				1.96					
Solids, Total Dissolved (mg/L)	463		490						
Solids, Total Suspended (mg/L)	1460		1320						
Sulfate (mg/L)	24.7		22.4						
TRPH (ug/L)				< 500	< 500	< 1000	< 1000	< 1000	
pH (S.U.)						< 2			
Arsenic (ug/L)	< 10		< 10	< 1					
Arsenic, Total (ug/L)									
Barium (ug/L)	212		< 200	< 200					
Barium, Total (ug/L)									
Chromium (ug/L)	< 10		< 10	< 10					
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)					41200				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	12/12/90	01/30/91
Field Conductivity @ 25 Deg C (umhos	550	680	499	433	600	600		575	450
Field pH (S.U.)	6.6	6.7	6.7	6.6	6.7	6.7		6.7	6.4
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	3.42	64.6	2.54	1.74	4.92	2.12		12.4	2.86
Chloride (mg/L)	112	137	104	87.7	95	107		116	116
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	5.52	5.7	5.57	5.31	4.46	5.33	6.07		6.62
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 6	< 6	< 6	< 6	< 5	< 5		< 6	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	439	596	470	418	389	425		497	463
Solids, Total Suspended (mg/L)	2600	2910	1190	1800	553	912		664	621
Sulfate (mg/L)	22.5	23.5	29.2	24.3	22.5	23.2		21.3	23.8
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200		253	249
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	590	520	700	640	768	642	700	550	475
Field pH (S.U.)	6.4	6	6.4	7	6.4	6.2	7	6.6	6.7
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	4.51	2.22	6.5	2.05	3.78	2.93	2.99	2.85	1.71
Chloride (mg/L)	128	123	127	127	128	101	109	115	118
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	5.51	4.46	3.76	4.69	6.34	6.19	5.34	5.96	5.37
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	30	30.1	< 5	8.74	< 6	5.7	< 5	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	574	443	434	413	439	429	338	473	469
Solids, Total Suspended (mg/L)	1684	1670	820	2260	972	1540	4660	70	458
Sulfate (mg/L)	30.5	< 10	18.3	32.2	22.7	21.2	32.2	< 10	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	65.2								
Barium (ug/L)	253	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	2460								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	239								
Iron (ug/L)	< 100	< 100							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W13 1

Parameter	06/22/92	12/19/92	06/30/93	12/27/93	04/25/94	06/22/94	10/04/94	03/10/95	07/06/95
Field Conductivity @ 25 Deg C (umhos		570	475		833	750			820
Field pH (S.U.)		6.04	6.07		5.97	6.5			6.1
Temperature (Deg. C)		7	11.8		11	15			11.5
#2 Fuel Oil (mg/L)									< .25
Chloride (mg/L)	77.4	146	80	200	167	152	132	184	163
Gasoline (mg/L)									< .25
Kerosene (mg/L)									< .25
Mineral Spirits (mg/L)									< .25
Nitrogen, Ammonia (mg/L)	< 1	< 1	< .1	< .2	< .1	< .1	.2	< .1	.3
Nitrogen, Nitrate (mg/L)	.825	1.48							
Nitrogen, Nitrate + Nitrite (mg/L)			1.38	5.01	2.36	2.84	5.59	7.22	6.66
Phosphorus, Phosphate (mg/L)	4.46								
TRPH (ug/L)	< 500	< 500	< 1000	< 1000		< 1000			
pH (S.U.)			< 2						
Sodium (ug/L)		83300							

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W12 1

Parameter	06/18/92	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95
Field Conductivity @ 25 Deg C (umhos		500	710	670	599	605
Field pH (S.U.)		6.5	6.01	7	5.55	5.98
Temperature (Deg. C)		6	11	11.5	13	11.5
#2 Fuel Oil (mg/L)						< .25
Chloride (mg/L)	159	140	126	108	102	105
Gasoline (mg/L)						< .25
Kerosene (mg/L)						< .25
Mineral Spirits (mg/L)						< .25
Nitrogen, Ammonia (mg/L)	< 1	< 1	< .1	.22	< .1	.28
Nitrogen, Nitrate (mg/L)	9.28	10.3				
Nitrogen, Nitrate + Nitrite (mg/L)			11.3	8.14	7.43	6.25
Phosphorus, Phosphate (mg/L)	1.35					
TRPH (ug/L)	< 500	< 500	< 1000	< 1000	< 1000	
pH (S.U.)			< 2			
Sodium (ug/L)		63000				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	05/01/91	10/08/91	06/18/92	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95
Field Conductivity @ 25 Deg C (umhos	339	240		212	395	300	292	275
Field pH (S.U.)	6.8	6.3		6.49	6.69	6.5	5.94	6.4
Temperature (Deg. C)				7	11.9	11.5	14	16
#2 Fuel Oil (mg/L)								< .25
Carbon, Total Organic (mg/L)	3.1	2.65						
Chloride (mg/L)	50	26.8	31.4	32.2	31	26	20	25
Gasoline (mg/L)								< .25
Kerosene (mg/L)								< .25
Mineral Spirits (mg/L)								< .25
Nitrogen, Ammonia (mg/L)			< 1	< 1	.1	< .2	< .1	< .1
Nitrogen, Nitrate (mg/L)	7.38	2.91	2.67	2.3				
Nitrogen, Nitrate + Nitrite (mg/L)					1.78	1.89	.99	1.18
Oil and Grease (mg/L)	< 6	< 5						
Phosphorus, Phosphate (mg/L)			.736					
Solids, Total Dissolved (mg/L)	313	240						
Solids, Total Suspended (mg/L)	606	670						
Sulfate (mg/L)	27	20.2						
TRPH (ug/L)			< 500	< 500	< 1000	< 1000	< 1000	
pH (S.U.)					< 2			
Arsenic (ug/L)	< 10	< 10						
Arsenic, Total (ug/L)								
Barium (ug/L)	< 200	< 200						
Barium, Total (ug/L)								
Chromium (ug/L)	< 10	< 10						
Chromium, Total (ug/L)								
Iron (ug/L)								
Sodium (ug/L)				17500				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W11 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	12/12/90	01/30/91
Field Conductivity @ 25 Deg C (umhos	368	382	218	290	465	450		389	310
Field pH (S.U.)	6.7	6.5	7.1	6.7	6.6	6.9		6.7	6.5
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	12.3	18.8	2.42	3.75	3.54	3.87		11.8	6.35
Chloride (mg/L)	67	61.5	22.8	69.4	60	54.6		62.8	66.7
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	2.14	2.37	.21	1.35	4.02	5.14	6.36		8.04
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 6	< 6	< 6	< 6	< 6	6.34		7.87	7.2
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	303	372	205	255	268	253		325	338
Solids, Total Suspended (mg/L)	838	1050	340	690	158	366		257	
Sulfate (mg/L)	14.3	18	14.1	16.8	20	20.2		23.9	30.6
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200		< 200	< 200
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W11 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	385	355	395	352	417	396	412	330	320
Field pH (S.U.)	6.8	6.4	6.8	6.9	6.9	6.6	6.5	6.6	6.9
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	7.62	4.19	5.23	2.45	4.55	4.04	3.87	2.54	4.27
Chloride (mg/L)	71.9	49.8	30.2	21.7	45.2	42.9	64.1	58	45.7
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	2.32	2.17	3.04	2.24	1.16	1.55	1.09	1.42	1.55
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	10.2	26.1	8.31	< 6	9.97	19.8	6.62	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	404	300	253	222	267	224	153	403	263
Solids, Total Suspended (mg/L)	2192	1430	500	470	624	592	3680	424	521
Sulfate (mg/L)	23.6	< 10	21.8	26.4	16.2	14.9	31.8	< 10	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	97.4								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	1873								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	275								
Iron (ug/L)	< 100	160							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10B 1

Parameter	07/08/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
Field Conductivity @ 25 Deg C (umhos		100	180	180	158	150
Field pH (S.U.)		6.91	7.18	7.5	6.58	6.92
Temperature (Deg. C)		7	14.1	11.5	13	11.5
#2 Fuel Oil (mg/L)						< .25
Chloride (mg/L)	37	3.57	3	< 2	< 2	< 2
Gasoline (mg/L)						< .25
Kerosene (mg/L)						< .25
Mineral Spirits (mg/L)						< .25
Nitrogen, Ammonia (mg/L)	< 1	< 1	< .1	< .2	.16	.3
Nitrogen, Nitrate (mg/L)	.191	.427				
Nitrogen, Nitrate + Nitrite (mg/L)			.37	.36	.42	.33
Phosphorus, Phosphate (mg/L)	.279					
TRPH (ug/L)	< 500	600	< 1000	< 1000	< 1000	
pH (S.U.)			< 2			
Sodium (ug/L)	6680	6680				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/08/91	07/08/92	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95
Field Conductivity @ 25 Deg C (umhos	390		320	395	410	415	440
Field pH (S.U.)	6.1		6.05	5.99	6.35	5.91	6.26
Temperature (Deg. C)			6	12.9	11.5	13.5	11.5
#2 Fuel Oil (mg/L)							< .25
Carbon, Total Organic (mg/L)	12.5						
Chloride (mg/L)	77.4	124	67	53	58	45	49
Gasoline (mg/L)							< .25
Kerosene (mg/L)							< .25
Mineral Spirits (mg/L)							2.8
Nitrogen, Ammonia (mg/L)		< 1	< 1	.16	< .2	.13	.38
Nitrogen, Nitrate (mg/L)	.41	.22	.096				
Nitrogen, Nitrate + Nitrite (mg/L)				< .02	.02	.03	< .02
Oil and Grease (mg/L)	14.9						
Phosphorus, Phosphate (mg/L)		2.74					
Solids, Total Dissolved (mg/L)	361						
Solids, Total Suspended (mg/L)							
Sulfate (mg/L)	25.7						
TRPH (ug/L)		< 500	1000	1200	< 1000	1400	
pH (S.U.)				< 2			
Arsenic (ug/L)	< 10						
Arsenic, Total (ug/L)							
Barium (ug/L)	< 200						
Barium, Total (ug/L)							
Chromium (ug/L)	< 10						
Chromium, Total (ug/L)							
Iron (ug/L)							
Sodium (ug/L)			28000				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10A

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	310	368	337	291	355	420	335	300	302
Field pH (S.U.)	6.4	6.3	6.3	6.3	6.4	6.3	6.5	6.1	6.1
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	12.3	68.4	11.2	17.3	13.1	8.34	13.4	14.2	13.8
Chloride (mg/L)	48	57.6	57	65.6	55	96.8	66.1	69.1	68.3
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	< .02	< .02	< .02	< .02	.03	< .02	< .02	< .02	.03
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	9.5	15.3	19.3	15.4	19.3	13.7	< 6	18	10.8
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	303	315	332	288	257	367	292	283	286
Solids, Total Suspended (mg/L)	1720	2020	1150	1740	214	804	684	863	1170
Sulfate (mg/L)	26.7	32.8	37.4	36.4	27.9	23.3	30.9	26.1	23.6
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10A

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	289	361	310	330	429	426	395	320	285
Field pH (S.U.)	6.4	5.8	6.1	6.6	6	6.3	6.8	6.3	6.3
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	16.2	16.9	7.62	7.21	11.2	10.9	15.2	15.2	13.9
Chloride (mg/L)	68	74.4	46.9	5.07	64.7	59.2	58.8	66	51.8
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	< .02	< .02	< .02	.02	< .02	.13	< .02	< .02	< .02
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	10.5	21.5	35.2	8.88	10.5	13.7	13.3	21.7	18.6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	374	328	236	224	280	270	153	283	305
Solids, Total Suspended (mg/L)	5875	6360	7970	1100	2800	1900	5930	153	399
Sulfate (mg/L)	30.4	31.2	24.4	38.2	27.6	26.2	34.8	< 10	17
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	308								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	3841								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	994								
Iron (ug/L)	290	4330							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	03/10/95	07/05/95
Field Conductivity @ 25 Deg C (umhos			500
Field pH (S.U.)			5.8
Temperature (Deg. C)			17
#2 Fuel Oil (mg/L)			< .25
Chloride (mg/L)	89	68	91
Gasoline (mg/L)			< .25
Kerosene (mg/L)			< .25
Mineral Spirits (mg/L)			.85
Nitrogen, Ammonia (mg/L)	< .1	.23	.71
Nitrogen, Nitrate (mg/L)			
Nitrogen, Nitrate + Nitrite (mg/L)	6.02	.58	2.58
Phosphorus, Phosphate (mg/L)			
TRPH (ug/L)			
pH (S.U.)			
Sodium (ug/L)			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W25 1

Parameter	02/19/92	07/29/92	09/17/92	12/17/92	03/23/93	06/28/93	12/28/93	04/25/94	06/21/94
Field Conductivity @ 25 Deg C (umhos			290	240	495	465	635	493	493
Field pH (S.U.)			6	5.94	5.96	5.79	6.15	5.69	5.84
Temperature (Deg. C)			12	10		13	11.5	12	13
#2 Fuel Oil (mg/L)									
Chloride (mg/L)	75.8	60.4	34.6	39.3	77	71	136	90	84
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)			< 1	< 1	< .1	.2	.26	.2	.17
Nitrogen, Nitrate (mg/L)	7.64	4.66	6.04	6.52					
Nitrogen, Nitrate + Nitrite (mg/L)					4.37	4.2	8.07	1.14	2.69
Phosphorus, Phosphate (mg/L)			1.96						
TRPH (ug/L)	< 610	< 500	< 500	< 500	< 500	< 1000	< 1000		1600
pH (S.U.)						< 2			
Sodium (ug/L)			31900	33700	40200				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	01/05/95	03/09/95	07/06/95
Field Conductivity @ 25 Deg C (umhos				855
Field pH (S.U.)				6
Temperature (Deg. C)				13
#2 Fuel Oil (mg/L)				< .25
Chloride (mg/L)	240	248	196	167
Gasoline (mg/L)				< .25
Kerosene (mg/L)				< .25
Mineral Spirits (mg/L)				2
Nitrogen, Ammonia (mg/L)	< .1	< .1	.13	.49
Nitrogen, Nitrate (mg/L)				
Nitrogen, Nitrate + Nitrite (mg/L)	.15	.27	.21	.02
Phosphorus, Phosphate (mg/L)				
TRPH (ug/L)				
pH (S.U.)				
Sodium (ug/L)				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W22 1

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	04/25/94	06/22/94
Field Conductivity @ 25 Deg C (umhos			128	900	1340	180	1370	1070	987
Field pH (S.U.)			6.72	6.22	6.26	6.11	5.65	5.78	5.77
Temperature (Deg. C)			15	7		12.5	11.5	12	14.5
#2 Fuel Oil (mg/L)									
Chloride (mg/L)	386	299	19.6	313	307	25	356	247	180
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)			< 1	< 1	< .1	< .1	.22	.24	< .1
Nitrogen, Nitrate (mg/L)	< .02	.14	.675	.081					
Nitrogen, Nitrate + Nitrite (mg/L)					.02	.73	.06	.13	.05
Phosphorus, Phosphate (mg/L)			.632						
TRPH (ug/L)	3000	550	< 500	3000	9900	< 1000	2000		< 1000
pH (S.U.)						< 2			
Sodium (ug/L)			11300	131000	124000				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	07/06/95
Field Conductivity @ 25 Deg C (umhos	325
Field pH (S.U.)	6.48
Temperature (Deg. C)	13.5
#2 Fuel Oil (mg/L)	< .25
Alkalinity, Bicarbonate (mg/L)	
Alkalinity, Total (mg/L)	
Carbon, Total Organic (mg/L)	
Chloride (mg/L)	44
Gasoline (mg/L)	< .25
Kerosene (mg/L)	< .25
Mineral Spirits (mg/L)	< .25
Nitrogen, Ammonia (mg/L)	.16
Nitrogen, Nitrate (mg/L)	
Nitrogen, Nitrate + Nitrite (mg/L)	.78
Oil and Grease (mg/L)	
Phosphorus, Phosphate (mg/L)	
Solids, Total Dissolved (mg/L)	
Solids, Total Suspended (mg/L)	
Sulfate (mg/L)	
TRPH (ug/L)	
pH (S.U.)	
Arsenic (ug/L)	
Arsenic, Total (ug/L)	
Barium (ug/L)	
Barium, Total (ug/L)	
Calcium (ug/L)	
Chromium (ug/L)	
Chromium, Total (ug/L)	
Iron (ug/L)	
Magnesium (ug/L)	
Potassium (ug/L)	
Sodium (ug/L)	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W21 3

Parameter	05/01/91	10/08/91	10/29/91	12/22/91	06/24/92	12/18/92	06/29/93	12/28/93	06/22/94
Field Conductivity @ 25 Deg C (umhos	191	315				240	445	480	373
Field pH (S.U.)	6.9	6.1				6.59	6.41	6.7	6.25
Temperature (Deg. C)						7	13.2	11.5	13.5
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)			94.5	85.8					
Alkalinity, Total (mg/L)			94.5	85.8					
Carbon, Total Organic (mg/L)	6.74	2.76							
Chloride (mg/L)	32.8	56.6	54.8	35.2	40.4	59	62	74	43
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)						< 1	< .1	< .2	.31
Nitrogen, Nitrate (mg/L)	1.11	.88			2.5	2.3			
Nitrogen, Nitrate + Nitrite (mg/L)							1.83	2.4	1.3
Oil and Grease (mg/L)	< 6	< 5							
Phosphorus, Phosphate (mg/L)			.392	.267	3.18				
Solids, Total Dissolved (mg/L)	175	253							
Solids, Total Suspended (mg/L)	648	388							
Sulfate (mg/L)	11.2	15.5	16.2	13.8					
TRPH (ug/L)					< 500	< 500	< 1000	< 1000	< 1000
pH (S.U.)							< 2		
Arsenic (ug/L)	< 10	< 10			< 1				
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200					
Barium, Total (ug/L)									
Calcium (ug/L)			33100	24300					
Chromium (ug/L)	< 10	< 10							
Chromium, Total (ug/L)									
Iron (ug/L)									
Magnesium (ug/L)			9780	7430					
Potassium (ug/L)			< 5000	< 5000					
Sodium (ug/L)			32400	25000		36500			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W21 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	12/12/90	01/30/91
Field Conductivity @ 25 Deg C (umhos	479	510	147	188	360	252		220	200
Field pH (S.U.)	6.7	6.8	6.9	7.1	7	6.9		6.8	6.8
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Alkalinity, Total (mg/L)									
Carbon, Total Organic (mg/L)	3.54	30	3.74	3.49	4.01	2.93		5.34	4.46
Chloride (mg/L)	115	101	14.2	33.7	53	30.4		31.8	40.6
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	5.95	6.45	.23	2.92	1.2	.53	.58		.83
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	8.07	< 6	< 6	< 6	< 6	< 6		< 6	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	415	460	161	190	248	141		198	204
Solids, Total Suspended (mg/L)	2090	1420	324	450	236	106		175	98
Sulfate (mg/L)	19.5	21	15.8	24.2	14.2	18.8		15.1	13.6
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200		< 200	< 200
Barium, Total (ug/L)									
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W21 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	365	322	345	440	478	550	461	367	385
Field pH (S.U.)	6.8	6.5	6.6	6.6	6.7	6.5	7.1	6.7	6.8
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)									
Alkalinity, Total (mg/L)									
Carbon, Total Organic (mg/L)	11	13.8	3.62	3.89	5.6	2.93	5.92	3.86	2.34
Chloride (mg/L)	82.6	52.7	53.2	68.4	69.9	83	71	81	89.8
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	4.02	1.72	1.74	4.59	2.44	2.76	3.25	4.83	3.91
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	< 5	12.6	< 6	< 6	< 6	8.46	10.6	24.6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	390	293	243	302	331	296	127	313	392
Solids, Total Suspended (mg/L)	2935	5760	2480	313	1560	1650	4420	170	556
Sulfate (mg/L)	21.8	32	20.2	33.5	19.6	28.9	59.3	< 10	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	128								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	1982								
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	473								
Iron (ug/L)	360	310							
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91	10/08/91
Field Conductivity @ 25 Deg C (umhos	650	590	750	750	715	550	680	590
Field pH (S.U.)	6.2	6.4	6.3	6.4	6.4	6.2	6.2	6.1
Carbon, Total Organic (mg/L)	17.5	7.62	3.6	2.19	5.7	5.65	4.19	2.16
Chloride (mg/L)	200	176	199	200	213	220	257	227
Nitrogen, Nitrate (mg/L)	< .02	3.12	3.33	3.94	14.3	3.73	5.04	3.53
Oil and Grease (mg/L)	12	< 6	< 6	< 5	< 6	< 6	< 6	< 6
Solids, Total Dissolved (mg/L)	656	567	628	715	759	525	721	769
Solids, Total Suspended (mg/L)	1080	3100	1500	1480	2300	2830	5890	4850
Sulfate (mg/L)	31.1	26.9	28	27.4	25.7	28.8	32.2	31.6
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)								
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)								
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)								
Iron (ug/L)								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W20 1

Parameter	01/08/87	06/04/87	12/03/87	03/03/88	04/07/88	11/15/88	01/26/89	04/27/89	07/27/89
Field Conductivity @ 25 Deg C (umhos	580	620	650	760	790	600	700	650	700
Field pH (S.U.)	6.3	5.9	6.6	6.5	6.7	6.4	6.3	6.5	6.3
Carbon, Total Organic (mg/L)	6.41	4.6	5.24	6.32	7	8.35	13.3	8.48	68.6
Chloride (mg/L)	112	183	140	153	129	187	193	170	169
Nitrogen, Nitrate (mg/L)	.85	< .02	.18	.37	1.94	.2	.07	.82	.13
Oil and Grease (mg/L)	< 5	6.38	< 6	9.53	< 6	7.56	9.7	222	< 6
Solids, Total Dissolved (mg/L)	876	572	474	541	487	547	593	259	4130
Solids, Total Suspended (mg/L)	12570	5260	1980	2050	10900	101	1030	2140	4130
Sulfate (mg/L)	34.3	35.1	40.5	32.4	35.1	< 10	< 10	26.7	27.6
Arsenic (ug/L)	< 10	< 10			< 10	< 10		< 10	< 10
Arsenic, Total (ug/L)	49.2								
Barium (ug/L)	< 200	< 200			< 200	< 200		< 200	< 200
Barium, Total (ug/L)	4590								
Chromium (ug/L)	< 10	< 10			< 10	< 10		< 10	< 10
Chromium, Total (ug/L)	1075								
Iron (ug/L)	< 100	230							

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W19 1

Parameter	06/24/92	12/18/92	06/30/93	12/28/93	04/25/94	06/21/94	10/04/94	03/10/95	07/06/95
Field Conductivity @ 25 Deg C (umhos		900	425	685	689	399			845
Field pH (S.U.)		6.48	6.33	6	5.73	6.12			6.3
Temperature (Deg. C)		7	12	11.5	12	12			12
#2 Fuel Oil (mg/L)									< .25
Chloride (mg/L)	388	270	87	154	164	53	48	235	238
Gasoline (mg/L)									< .25
Kerosene (mg/L)									< .25
Mineral Spirits (mg/L)									3.9
Nitrogen, Ammonia (mg/L)		< 1	< .1	< .2	.11	< .1	< .1	.22	.4
Nitrogen, Nitrate (mg/L)	.814	1.73							
Nitrogen, Nitrate + Nitrite (mg/L)			.25	.54	.04	.07	.03	< .02	.02
TRPH (ug/L)	1200	3000	2100	8200		6600			
pH (S.U.)			< 2						
Arsenic (ug/L)	< 1								
Sodium (ug/L)		354000							

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W18 1

Parameter	02/25/92	07/08/92	09/17/92	12/17/92	03/23/93	06/29/93	12/28/93	06/22/94	07/05/95
Field Conductivity @ 25 Deg C (umhos			330	275	420	355	450	368	370
Field pH (S.U.)			6.51	6.22	6.22	5.93	6.3	5.5	6.01
Temperature (Deg. C)			13	4		11.5	11.5	13	13
#2 Fuel Oil (mg/L)									< .25
Chloride (mg/L)	52.4	131	50.5	52.7	52	43	69	45	39
Gasoline (mg/L)									< .25
Kerosene (mg/L)									< .25
Mineral Spirits (mg/L)									1.9
Nitrogen, Ammonia (mg/L)		< 1	< 1	< 1	.14	< .1	< .2	< .1	.22
Nitrogen, Nitrate (mg/L)	< .02	< .02	< .02	.05					
Nitrogen, Nitrate + Nitrite (mg/L)					< .02	.04	< .02	< .02	< .02
Phosphorus, Phosphate (mg/L)		4.02	1.6						
TRPH (ug/L)	1000	< 500	< 500	1000	2100	< 1000	1000	< 1000	
pH (S.U.)						< 2			
Sodium (ug/L)			21100	22800	21800				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	07/06/95
Field Conductivity @ 25 Deg C (umhos	660
Field pH (S.U.)	6.35
Temperature (Deg. C)	12.5
#2 Fuel Oil (mg/L)	< .25
Alkalinity, Bicarbonate (mg/L)	
Alkalinity, Total (mg/L)	
Carbon, Total Organic (mg/L)	
Chloride (mg/L)	106
Gasoline (mg/L)	< .25
Kerosene (mg/L)	< .25
Mineral Spirits (mg/L)	< .25
Nitrogen, Ammonia (mg/L)	.17
Nitrogen, Nitrate (mg/L)	
Nitrogen, Nitrate + Nitrite (mg/L)	6.03
Oil and Grease (mg/L)	
Phosphorus, Phosphate (mg/L)	
Solids, Total Dissolved (mg/L)	
Solids, Total Suspended (mg/L)	
Sulfate (mg/L)	
TRPH (ug/L)	
pH (S.U.)	
Arsenic (ug/L)	
Arsenic, Total (ug/L)	
Barium (ug/L)	
Barium, Total (ug/L)	
Calcium (ug/L)	
Chromium (ug/L)	
Chromium, Total (ug/L)	
Iron (ug/L)	
Magnesium (ug/L)	
Potassium (ug/L)	
Sodium (ug/L)	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 3

Parameter	05/01/91	10/08/91	10/29/91	12/22/91	06/16/92	12/18/92	06/29/93	12/28/93	06/21/94
Field Conductivity @ 25 Deg C (umhos	480	500				1310	735	810	684
Field pH (S.U.)	6.5	6.1				6.39	6.19	6.3	5.53
Temperature (Deg. C)						5	11	11.5	13
#2 Fuel Oil (mg/L)									
Alkalinity, Bicarbonate (mg/L)			94.5	99.5					
Alkalinity, Total (mg/L)			94.5	99.5					
Carbon, Total Organic (mg/L)	3.95	2.86							
Chloride (mg/L)	137	158	170	126	101	125	126	155	128
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)						< 1	.53	< .2	< .1
Nitrogen, Nitrate (mg/L)	11	13.5			5.8	10.4			
Nitrogen, Nitrate + Nitrite (mg/L)							7.86	11.5	6.27
Oil and Grease (mg/L)	< 6	< 6							
Phosphorus, Phosphate (mg/L)			1.04	1.33	4.29				
Solids, Total Dissolved (mg/L)	460	648							
Solids, Total Suspended (mg/L)	5170	7340							
Sulfate (mg/L)	31.4	25.9	32.6	33					
TRPH (ug/L)					1600	< 500	< 1000	< 1000	< 1000
pH (S.U.)							< 2		
Arsenic (ug/L)	< 10	< 10			< 1				
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200				
Barium, Total (ug/L)									
Calcium (ug/L)			71800	55400					
Chromium (ug/L)	< 10	< 10							
Chromium, Total (ug/L)									
Iron (ug/L)									
Magnesium (ug/L)			17900	14100					
Potassium (ug/L)			12500	9980					
Sodium (ug/L)			75400	60600		58500			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W33 1

Parameter	06/30/93	10/04/94
Field Conductivity @ 25 Deg C (umhos	545	
Field pH (S.U.)	5.64	
Temperature (Deg. C)	14	
Chloride (mg/L)	71	74
Nitrogen, Ammonia (mg/L)	.36	< .1
Nitrogen, Nitrate + Nitrite (mg/L)	7.08	< .02
TRPH (ug/L)	670000	
pH (S.U.)	< 2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/08/91	06/24/92	12/19/92	06/29/93	12/28/93	06/22/94	07/05/95
Field Conductivity @ 25 Deg C (umhos	200		320	1010	410	325	205
Field pH (S.U.)	6.5		6.38	6.35	5.8	6.11	6.25
Temperature (Deg. C)			6	13	11.5	15	14
#2 Fuel Oil (mg/L)							< .25
Carbon, Total Organic (mg/L)	15.1						
Chloride (mg/L)	5.96	27.2	25.9	56	7	11	12
Gasoline (mg/L)							< .25
Kerosene (mg/L)							< .25
Mineral Spirits (mg/L)							< .25
Nitrogen, Ammonia (mg/L)			1.96	1.8	1.31	1.21	1.46
Nitrogen, Nitrate (mg/L)	< .02	< .02	.052				
Nitrogen, Nitrate + Nitrite (mg/L)				.07	.08	.04	.03
Oil and Grease (mg/L)	< 5						
Phosphorus, Phosphate (mg/L)		2.8					
Solids, Total Dissolved (mg/L)	183						
Solids, Total Suspended (mg/L)	86						
Sulfate (mg/L)	< 1						
TRPH (ug/L)		< 500	< 500	< 1000	< 1000	< 1000	
pH (S.U.)				< 2			
Arsenic (ug/L)	< 10	2.64					
Arsenic, Total (ug/L)							
Barium (ug/L)	< 200						
Barium, Total (ug/L)							
Chromium (ug/L)	< 10						
Chromium, Total (ug/L)							
Iron (ug/L)							
Sodium (ug/L)			21800				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W32 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	290	229	130	112	195	140	111	60	500
Field pH (S.U.)	6.6	6.6	6.8	6.8	6.6	6.9	7	6.9	6.5
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	16.7	42.8	8	9.81	10.6	13.9	14.1	15.1	29.2
Chloride (mg/L)	20	16.9	8.55	10.6	11	6.1	5.8	4	72.9
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 6	< 6	< 6	7.64	< 6	< 5	< 6	< 6	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	193	224	136	111	140	81	130	108	477
Solids, Total Suspended (mg/L)	373	171	90	140	18	41	30	24	109
Sulfate (mg/L)	9.8	1.5	25.1	5.7	4	< 1	< 1	< 1	46.4
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	269
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W32

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	110	245	245	275	129	229	185	212	180
Field pH (S.U.)	6.7	6.2	6.4	6.4	5.2	6.4	6.2	6.5	6.8
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	34.1	23.9	14.8	14.5	11.5	9.31	21.1	15.7	9.35
Chloride (mg/L)	15.5	17.6	12.5	14	7.19	8.11	13.8	15	12.1
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.03	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	< 5	< 5	< 6	8.62	< 5	< 6	< 6	< 6
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	168	221	191	175	89	124	21	181	196
Solids, Total Suspended (mg/L)	2210	1730	245	182	416	87	1410	342	91
Sulfate (mg/L)	45.9	53	36.2	57.8	32.6	32.4	58.8	56.4	75.5
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	96.8								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	1424								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	361								
Iron (ug/L)	30500	49500							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W31

Parameter	10/08/91	10/29/91	12/22/91
Field Conductivity @ 25 Deg C (umhos	170		
Field pH (S.U.)	6.6		
Alkalinity, Bicarbonate (mg/L)		92.5	118
Carbon, Total Organic (mg/L)	11		
Chloride (mg/L)	2.98	4.7	7.55
Sulfate (mg/L)	< 1	< 1	6.25
Arsenic (ug/L)	< 10		
Arsenic, Total (ug/L)			
Barium (ug/L)	< 200	< 200	< 200
Barium, Total (ug/L)			
Calcium (ug/L)		23100	26900
Chromium (ug/L)	< 10		
Chromium, Total (ug/L)			
Magnesium (ug/L)		7080	
Potassium (ug/L)		< 5000	
Sodium (ug/L)		8090	8230

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W31 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	353	211	165	111	220	142	139	90	270
Field pH (S.U.)	6.7	7	6.7	6.8	6.9	7.1	7.1	6.9	6.7
Alkalinity, Bicarbonate (mg/L)									
Carbon, Total Organic (mg/L)	9.48	39.3	9.29	9.16	7.23	11.3	15.6	12.7	15.8
Chloride (mg/L)	45	11.9	9.5	7.71	10	5.5	4.8	5.4	25.6
Sulfate (mg/L)	18	5.4	9.98	9.2	5.4	< 1	< 2	< 1	17.2
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)									
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W31 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	460	213	210	220	174	283	187	170	165
Field pH (S.U.)	7	6.5	6.7	6.7	5.4	6.6	6.8	5.6	7
Alkalinity, Bicarbonate (mg/L)									
Carbon, Total Organic (mg/L)	15.9	12.9	9.34	9.6	10.2	8.33	12.5	12.3	9.17
Chloride (mg/L)	22.3	7.71	11.5	12.9	11.3	12.2	12.8	15	12.4
Sulfate (mg/L)	114	55.3	14.4	29.8	24.9	27.3	56	11.3	< 10
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	195								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	2650								
Calcium (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	637								
Magnesium (ug/L)									
Potassium (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/25/92	12/18/92	06/30/93	12/28/93	06/22/94	07/05/95
Field Conductivity @ 25 Deg C (umhos		190	350	275	693	325
Field pH (S.U.)		6.46	6.3	6.1	6.62	6
Temperature (Deg. C)		7	10.5	11.5	12.5	15
#2 Fuel Oil (mg/L)						< .25
Carbon, Total Organic (mg/L)						
Chloride (mg/L)	21.1	25.9	43	24	157	35
Gasoline (mg/L)						< .25
Kerosene (mg/L)						< .25
Mineral Spirits (mg/L)						< .25
Nitrogen, Ammonia (mg/L)		< 1	.15	< .2	< .1	.97
Nitrogen, Nitrate (mg/L)	.027	.231				
Nitrogen, Nitrate + Nitrite (mg/L)			.44	.1	.6	< .02
Oil and Grease (mg/L)						
Solids, Total Dissolved (mg/L)						
Solids, Total Suspended (mg/L)						
Sulfate (mg/L)						
TRPH (ug/L)	< 500	< 500	< 1000	< 1000	< 1000	
pH (S.U.)			< 2			
Arsenic (ug/L)	< 1					
Arsenic, Total (ug/L)						
Barium (ug/L)						
Barium, Total (ug/L)						
Chromium (ug/L)						
Chromium, Total (ug/L)						
Iron (ug/L)						
Sodium (ug/L)		22100				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	460	600	460	239	250	228	200	140	170
Field pH (S.U.)	6.5	6.4	6.5	6.5	6.7	6.7	6.7	6.7	6.6
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	27.8	69.8	15.8	11.6	4.36	5.23	14.3	5.26	13.1
Chloride (mg/L)	81	116	87.4	45.3	17	23	19.8	15.1	17.4
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.01	.07	.34	.32	2.07	.69	.26	.28	.31
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	32.9	16.6	15.3	< 6	< 6	< 5	< 6	< 6	< 6
Solids, Total Dissolved (mg/L)	408	502	395	218	159	158	192	165	190
Solids, Total Suspended (mg/L)	2060	1120	372	758	170	376	297	291	500
Sulfate (mg/L)	32.4	50	40.2	25.7	11.9	16.3	34	13.1	14.4
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	350	520	410	600	492	247	510	431	430
Field pH (S.U.)	6.4	5.9	6.2	6.6	6.3	6.9	6.9	6.4	6.5
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	18.9	26.3	27.7	22.8	16	5.46	25.2	34.3	25.3
Chloride (mg/L)	87.4	117	70.9	118	66.8	13.2	95.6	99.5	86.2
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.53	.23	.95	.16	.42	2.8	.39	.19	.23
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	9.8	16.8	12.2	20.2	13.7	< 5	20.3	27.9	28.7
Solids, Total Dissolved (mg/L)	446	436	308	452	327	154	224	366	374
Solids, Total Suspended (mg/L)	3785	2740	765	2220	1470	1050	5150	1620	361
Sulfate (mg/L)	41.1	46.1	21.3	48.1	34	30.2	55.7	48.9	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	100								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	1352								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	310								
Iron (ug/L)	2820	4060							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/08/91	07/08/92	12/17/92	06/29/93	12/28/93	06/22/94	07/05/95
Field Conductivity @ 25 Deg C (umhos	430		385	520	700	597	535
Field pH (S.U.)	6.2		6.25	6.13	6.2	5.93	6.21
Temperature (Deg. C)			6	12	11.5	16	12
#2 Fuel Oil (mg/L)							< .25
Carbon, Total Organic (mg/L)	4.99						
Chloride (mg/L)	73.4		98.3	88	158	130	99
Gasoline (mg/L)							< .25
Kerosene (mg/L)							< .25
Mineral Spirits (mg/L)							< .25
Nitrogen, Ammonia (mg/L)		< 1	< 1	.17	< .2	< .1	.14
Nitrogen, Nitrate (mg/L)	< .02	.115	.051				
Nitrogen, Nitrate + Nitrite (mg/L)				< .02	.13	.03	.25
Oil and Grease (mg/L)	< 5						
Phosphorus, Phosphate (mg/L)		.918					
Solids, Total Dissolved (mg/L)	329						
Solids, Total Suspended (mg/L)	840						
Sulfate (mg/L)	23.3						
TRPH (ug/L)		< 500	< 500	< 1000	< 1000	< 1000	
pH (S.U.)				< 2			
Arsenic (ug/L)	< 10						
Arsenic, Total (ug/L)							
Barium (ug/L)	< 200						
Barium, Total (ug/L)							
Chromium (ug/L)	< 10						
Chromium, Total (ug/L)							
Iron (ug/L)							
Sodium (ug/L)			49100				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W28 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91
Field Conductivity @ 25 Deg C (umhos	500	450	415	350	600	450	372	295	315
Field pH (S.U.)	6.6	6.5	6.3	6.5	6.4	6.5	6.7	6.2	6.6
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	7.26	35.6	2.77	4.05	12	4.55	5.62	4.41	7.05
Chloride (mg/L)	115	94.3	85.5	93.5	96	89.9	79	76.1	74.8
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	.04	.19	.2	.11	< .02	< .02	.19	< .02	.08
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	7.68	< 6	< 6	< 6	< 6	< 5	< 6	< 6	7.56
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	392	388	365	466	384	317	324	293	281
Solids, Total Suspended (mg/L)	1020	2450	1050	1130	540	918	528	963	1400
Sulfate (mg/L)	35.2	38.5	46.5	33.6	37.1	33.6	33.8	31.6	30.1
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic, Total (ug/L)									
Barium (ug/L)	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Barium, Total (ug/L)									
Chromium (ug/L)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium, Total (ug/L)									
Iron (ug/L)									
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W28 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Field Conductivity @ 25 Deg C (umhos	372	388	450	540	706	693	500	388	440
Field pH (S.U.)	6.4	6.1	6.3	6.6	6.3	6.5	7	6.5	6.6
Temperature (Deg. C)									
#2 Fuel Oil (mg/L)									
Carbon, Total Organic (mg/L)	7.31	4.6	29.5	5.64	12	8.47	4.63	4.84	4.66
Chloride (mg/L)	102	88.4	102	14	129	123	107	100	121
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)									
Nitrogen, Nitrate (mg/L)	< .02	.29	.14	.15	< .02	< .02	.23	.18	< .02
Nitrogen, Nitrate + Nitrite (mg/L)									
Oil and Grease (mg/L)	< 5	5.08	29	< 6	9.52	< 5	8.32	10.5	9.28
Phosphorus, Phosphate (mg/L)									
Solids, Total Dissolved (mg/L)	485	385	343	351	471	386	206	402	423
Solids, Total Suspended (mg/L)	8170	4290	1650	768	2070	3300	4310	1970	567
Sulfate (mg/L)	36.8	37.3	20.2	42.7	43.5	47.2	53	19.6	< 10
TRPH (ug/L)									
pH (S.U.)									
Arsenic (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Arsenic, Total (ug/L)	60.9								
Barium (ug/L)	< 200	< 200	< 200			< 200	< 200	< 200	
Barium, Total (ug/L)	4570								
Chromium (ug/L)	< 10	< 10	< 10			< 10	< 10	< 10	
Chromium, Total (ug/L)	965								
Iron (ug/L)	< 100	370							
Sodium (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W27 1

Parameter	06/24/92	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95
Field Conductivity @ 25 Deg C (umhos		500	945	700	658	795
Field pH (S.U.)		6.16	6.24	5.8	6.29	6.2
Temperature (Deg. C)		7	12	11.5	13	13
#2 Fuel Oil (mg/L)						< .25
Chloride (mg/L)	103	140	162	129	116	123
Gasoline (mg/L)						< .25
Kerosene (mg/L)						< .25
Mineral Spirits (mg/L)						3.8
Nitrogen, Ammonia (mg/L)		< 1	< .1	.26	< .1	.47
Nitrogen, Nitrate (mg/L)	.926	.324				
Nitrogen, Nitrate + Nitrite (mg/L)			2.62	.39	.36	1.41
TRPH (ug/L)	500	2000	< 1000	1000	< 1000	
pH (S.U.)			< 2			
Arsenic (ug/L)	< 1					
Sodium (ug/L)		58000				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	03/09/95	07/06/95
Field Conductivity @ 25 Deg C (umhos			810
Field pH (S.U.)			6.26
Temperature (Deg. C)			12
#2 Fuel Oil (mg/L)			< .25
Chloride (mg/L)	178	169	143
Gasoline (mg/L)			< .25
Kerosene (mg/L)			< .25
Mineral Spirits (mg/L)			4.4
Nitrogen, Ammonia (mg/L)	< .1	.12	.24
Nitrogen, Nitrate (mg/L)			
Nitrogen, Nitrate + Nitrite (mg/L)	< .02	.05	.04
Phosphorus, Phosphate (mg/L)			
TRPH (ug/L)			
pH (S.U.)			
Sodium (ug/L)			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W26 1

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/27/93	04/25/94	06/22/94
Field Conductivity @ 25 Deg C (umhos			690	540	765	640	710	891	922
Field pH (S.U.)			6.4	6.29	6.33	6.23	6.7	5.53	5.84
Temperature (Deg. C)			15	7		14	11.5	12	13.5
#2 Fuel Oil (mg/L)									
Chloride (mg/L)	103	130	166	139	136	133	155	212	181
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)			< 1	< 1	.18	.19	< .2	.11	< .1
Nitrogen, Nitrate (mg/L)	.034	.093	.031	.337					
Nitrogen, Nitrate + Nitrite (mg/L)					.12	.12	.16	< .02	< .02
Phosphorus, Phosphate (mg/L)			1.96						
TRPH (ug/L)	1000	< 500	650	1000	4800	< 1000	1000		1200
pH (S.U.)						< 2			
Sodium (ug/L)			62800	66000	52800				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W69

Parameter	12/29/93	04/25/94
Field Conductivity @ 25 Deg C (umhos	700	627
Field pH (S.U.)	5.65	6.07
Temperature (Deg. C)	11.5	12.5
Chloride (mg/L)	92	85
Nitrogen, Ammonia (mg/L)	.65	.29
Nitrogen, Nitrate + Nitrite (mg/L)	.06	< .02
TRPH (ug/L)	46000	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W67

Parameter	06/29/93
Field Conductivity @ 25 Deg C (umhos	620
Field pH (S.U.)	6.05
Temperature (Deg. C)	16
Chloride (mg/L)	146
Nitrogen, Ammonia (mg/L)	< .1
Nitrogen, Nitrate + Nitrite (mg/L)	.7
TRPH (ug/L)	< 1000
pH (S.U.)	< 2

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W66 1

Parameter	06/30/93
Field Conductivity @ 25 Deg C (umhos	700
Field pH (S.U.)	6.78
Temperature (Deg. C)	13.5
Chloride (mg/L)	170
Nitrogen, Ammonia (mg/L)	< .1
Nitrogen, Nitrate + Nitrite (mg/L)	.44
TRPH (ug/L)	1400
pH (S.U.)	< 2

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W41 2

Parameter	10/04/94	03/10/95	07/06/95
Field Conductivity @ 25 Deg C (umhos			590
Field pH (S.U.)			6.4
Temperature (Deg. C)			17.5
#2 Fuel Oil (mg/L)			< .25
Chloride (mg/L)	44	191	132
Gasoline (mg/L)			< .25
Kerosene (mg/L)			< .25
Mineral Spirits (mg/L)			5.5
Nitrogen, Ammonia (mg/L)	.6	.47	.85
Nitrogen, Nitrate (mg/L)			
Nitrogen, Nitrate + Nitrite (mg/L)	.34	.53	.9
Phosphorus, Phosphate (mg/L)			
TRPH (ug/L)			
pH (S.U.)			
Arsenic (ug/L)			
Sodium (ug/L)			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W41 1

Parameter	02/25/92	06/16/92	09/17/92	12/19/92	03/24/93	06/30/93	12/28/93	04/25/94	06/21/94
Field Conductivity @ 25 Deg C (umhos			700	600	630	635	875	635	571
Field pH (S.U.)			6.74	5.99	6.4	5.74	5.85	5.66	6.21
Temperature (Deg. C)			17	6		12	11.5	12	13.5
#2 Fuel Oil (mg/L)									
Chloride (mg/L)	80.6	246	168	211	122	124	218	115	91
Gasoline (mg/L)									
Kerosene (mg/L)									
Mineral Spirits (mg/L)									
Nitrogen, Ammonia (mg/L)			< 1	< 1	.66	.12	.34	.34	.22
Nitrogen, Nitrate (mg/L)	.759	.345	.543	.228					
Nitrogen, Nitrate + Nitrite (mg/L)					.34	.05	1.75	.04	.04
Phosphorus, Phosphate (mg/L)		5.11	2.55						
TRPH (ug/L)	141000	500	900	9000	7100	330000	5600		2800
pH (S.U.)						< 2			
Arsenic (ug/L)		< 1							
Sodium (ug/L)			67800	103000	107000				

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W39

Parameter	06/17/92	12/18/92	06/21/94	03/10/95
Field Conductivity @ 25 Deg C (umhos		600	792	
Field pH (S.U.)		6.31	6.05	
Temperature (Deg. C)		7	13.5	
Chloride (mg/L)	193	195	185	75
Nitrogen, Ammonia (mg/L)		< 1	< .1	.3
Nitrogen, Nitrate (mg/L)	.461	.905		
Nitrogen, Nitrate + Nitrite (mg/L)			.58	.4
Phosphorus, Phosphate (mg/L)	5.36			
TRPH (ug/L)	< 500	75000	< 1000	
Arsenic (ug/L)	< 1			
Sodium (ug/L)		96200		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W38 1

Parameter	02/22/92	07/29/92
Chloride (mg/L)	134	164
Nitrogen, Nitrate (mg/L)	< .02	< .02
TRPH (ug/L)	58000	25000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W37 1

Parameter	02/20/92	06/24/92	09/17/92	12/18/92	03/24/93
Field Conductivity @ 25 Deg C (umhos			490	400	530
Field pH (S.U.)			6.46	6.56	6.48
Temperature (Deg. C)			16	7	
Chloride (mg/L)	100	88.8	70.2	90.2	84
Nitrogen, Ammonia (mg/L)			< 1	< 1	.32
Nitrogen, Nitrate (mg/L)	< .02	< .02	.028	.105	
Nitrogen, Nitrate + Nitrite (mg/L)					1.15
Phosphorus, Phosphate (mg/L)		3.48	3.26		
TRPH (ug/L)	7300	1100	1400	6000	45000
Arsenic (ug/L)		< 1			
Sodium (ug/L)			64900	77500	84200

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W36 1

Parameter	02/20/92	08/03/92	09/17/92
Field Conductivity @ 25 Deg C (umhos			510
Field pH (S.U.)			6.3
Temperature (Deg. C)			15
Chloride (mg/L)	100	102	48.7
Nitrogen, Ammonia (mg/L)			< 1
Nitrogen, Nitrate (mg/L)	< .02	.048	.055
Phosphorus, Phosphate (mg/L)			2.93
TRPH (ug/L)	1200	1000	650
Sodium (ug/L)			37500

A2

PHENOLICS

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W01A 1

Parameter	02/19/92	06/14/92	09/17/92	12/18/92	03/23/93	06/28/93	12/28/93	04/25/94	06/21/94
2,3,4,6-Tetrachlorophenol (ug/L)						40	< 160	< 10	69
2,3,5,6-Tetrachlorophenol (ug/L)	< 1	< 1.02	< 1	< 1	< 20				
2,4,5-Trichlorophenol (ug/L)						< 20	< 320	59	160
2,4,6-Trichlorophenol (ug/L)	< 1	< 1.02	34.3	5.18	< 60	< 10	< 160	55	120
2,4-Dichlorophenol (ug/L)	< .5	< .51	< .5	23.3	< 2	< 10	< 160	< 10	130
2,4-Dimethylphenol (ug/L)	5.91	< .51	67.8	< .5	< 2	< 10	190	< 10	29
2,4-Dinitrophenol (ug/L)	5.27	< 1.02	< 1	6.69	< 6	310	< 320	67	110
2,6-Dichlorophenol (ug/L)						< 10	< 160	< 10	27
2-Chlorophenol (ug/L)	< .5	24.3	< .5	< .5	< 2				
2-Nitrophenol (ug/L)	< .5	< .51	< .5	< .5	< 2	< 10	< 160	< 10	200
4,6-Dinitro-2-methylphenol (ug/L)	< 1	< 1.02	< 1	< 1	< 10	37	< 160	< 10	46
4-Chloro-3-methylphenol (ug/L)	< .5	< .51	< .5	1.77	< 10	< 10	< 160	19	59
4-Nitrophenol (ug/L)	< 1	< 1.02	42.1	2.51	< 10	430	< 320	24	65
Dinoseb (ug/L)						< 10	< 160	< 10	< 10
Pentachlorophenol (ug/L)	101	168	193	150	219	210	310	20	120
Phenol (ug/L)	< .5	< .51	< .5	24.1	< 2				
Phenol/2-Chlorophenol (ug/L)						< 20	240	< 20	< 20
m & p-Cresol (ug/L)						< 20	< 320	< 20	< 20
o-Cresol (ug/L)						170	< 160	< 10	64

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	01/05/95	03/10/95	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)	< 10	28	< 10	< 25
2,3,5,6-Tetrachlorophenol (ug/L)				
2,4,5-Trichlorophenol (ug/L)	58	< 20	26	< 10
2,4,6-Trichlorophenol (ug/L)	65	< 10	18	< 10
2,4-Dichlorophenol (ug/L)	< 10	< 10	10	< 10
2,4-Dimethylphenol (ug/L)	86	< 10	44	< 10
2,4-Dinitrophenol (ug/L)	34	< 20	12	< 50
2,6-Dichlorophenol (ug/L)	< 10	< 10	< 10	
2-Chlorophenol (ug/L)				< 10
2-Nitrophenol (ug/L)	< 10	< 10	50	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 10	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)	18	20	12	< 20
4-Nitrophenol (ug/L)	< 20	< 20	21	< 50
Dinoseb (ug/L)	< 10	< 10	< 10	< 25
Pentachlorophenol (ug/L)	89	50	28	< 50
Phenol (ug/L)				< 10
Phenol/2-Chlorophenol (ug/L)	< 20	< 20	35	
m & p-Cresol (ug/L)	< 20	< 20	41	< 20
o-Cresol (ug/L)	22	< 10	44	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W02 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/02/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	1220	6520	394	180	1200	10	4200	4700	455
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W02 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	6550	5940	2340	8450	2380	5940	6400	11400	47000
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/91	10/08/91	02/20/92	06/14/92	09/17/92	12/18/92	03/24/93	04/25/94	06/22/94
2,3,4,6-Tetrachlorophenol (ug/L)								600	1300
2,3,5,6-Tetrachlorophenol (ug/L)			< 1	< 1.05	39.4	12.9	< 20		
2,4,5-Trichlorophenol (ug/L)								190	400
2,4,6-Trichlorophenol (ug/L)			< 1	146	< 1	< 1	< 6	490	290
2,4-Dichlorophenol (ug/L)			< .5	< .526	36.7	< .5	< 2	< 10	560
2,4-Dimethylphenol (ug/L)			19.8	5.42	1.99	< .5	< 2	89	110
2,4-Dinitrophenol (ug/L)			< 1	47.2	< 1	4.35	< 6	95	340
2,6-Dichlorophenol (ug/L)								110	370
2-Chlorophenol (ug/L)			< .5	< .526	< .5	< .5	< 2		
2-Nitrophenol (ug/L)			< .5	< .526	< .5	< .5	< 2	68	410
4,6-Dinitro-2-methylphenol (ug/L)			< 1	< 1.05	2.87	< 1	< 10	75	< 100
4-Chloro-3-methylphenol (ug/L)			< .5	< .526	< .5	1.77	< 10	130	< 100
4-Nitrophenol (ug/L)			46.3	39.6	52.6	4.93	< 10	110	240
Dinoseb (ug/L)								40	< 100
Pentachlorophenol (ug/L)	15100	14800	7550	10900	9590	12700	< 10	1500	5000
Phenol (ug/L)			< .5	< .526	< .5	45.7	< 2		
Phenol/2-Chlorophenol (ug/L)								230	< 200
m & p-Cresol (ug/L)								110	< 200
o-Cresol (ug/L)								300	210

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	01/05/95	03/10/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)	1400	1400	< 1000	< 2500
2,3,5,6-Tetrachlorophenol (ug/L)				
2,4,5-Trichlorophenol (ug/L)	< 1000	< 1000	< 2000	< 1000
2,4,6-Trichlorophenol (ug/L)	< 500	< 500	< 1000	< 1000
2,4-Dichlorophenol (ug/L)	< 500	< 500	< 1000	< 1000
2,4-Dimethylphenol (ug/L)	< 500	< 500	< 1000	< 1000
2,4-Dinitrophenol (ug/L)	< 1000	< 1000	< 2000	< 5000
2,6-Dichlorophenol (ug/L)	< 500	< 500	< 1000	
2-Chlorophenol (ug/L)				< 1000
2-Nitrophenol (ug/L)	< 500	< 500	< 1000	< 1000
4,6-Dinitro-2-methylphenol (ug/L)	< 500	< 500	< 1000	< 5000
4-Chloro-3-methylphenol (ug/L)	< 500	< 500	< 1000	< 2000
4-Nitrophenol (ug/L)	< 1000	< 1000	< 2000	< 5000
Dinoseb (ug/L)	< 500	< 500	< 1000	< 2500
Pentachlorophenol (ug/L)	14000	16000	6900	11000
Phenol (ug/L)				< 1000
Phenol/2-Chlorophenol (ug/L)	< 1000	< 1000	< 2000	
m & p-Cresol (ug/L)	< 1000	< 1000	< 2000	< 2000
o-Cresol (ug/L)	< 500	< 500	< 1000	< 1000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03A 1

Parameter	02/25/92	06/17/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	04/25/94	06/22/94
2,3,4,6-Tetrachlorophenol (ug/L)						2100	9000	6800	17000
2,3,5,6-Tetrachlorophenol (ug/L)	< 10	< 1.02	50.1	< 1	< 10000				
2,4,5-Trichlorophenol (ug/L)						< 100	< 2300	< 2000	11000
2,4,6-Trichlorophenol (ug/L)	< 10	334	< 1	473	< 3000	< 50	4800	2700	12000
2,4-Dichlorophenol (ug/L)	< 5	< .51	109	1220	< 1000	< 50	< 1100	< 1000	70000
2,4-Dimethylphenol (ug/L)	9.84	< .51	3.3	< .5	< 1000	< 50	17000	5100	27000
2,4-Dinitrophenol (ug/L)	< 10	< 1.02	< 1	< 1	< 3000	< 100	< 2300	< 2000	13000
2,6-Dichlorophenol (ug/L)						< 50	8000	3600	20000
2-Chlorophenol (ug/L)	< 5	< .51	< .5	< .5	< 1000				
2-Nitrophenol (ug/L)	13.5	20.5	< .5	< .5	< 1000	< 50	8800	12000	< 1000
4,6-Dinitro-2-methylphenol (ug/L)	11.2	< 1.02	5.56	< 1	< 5000	< 50	< 1100	1900	6400
4-Chloro-3-methylphenol (ug/L)	< 5	< .5	< .5	160	< 5000	< 50	3000	1400	8100
4-Nitrophenol (ug/L)	< 10	< 1.02	159	< 1	< 5000	< 100	2600	< 2000	24000
Dinoseb (ug/L)						< 50	< 1100	< 1000	8600
Pentachlorophenol (ug/L)	19500	20100	14800	19500	39500	24000	57000	37000	51000
Phenol (ug/L)	< 5	< .51	< .5	< .5	< 1000				
Phenol/2-Chlorophenol (ug/L)						< 100	33000	11000	< 2000
m & p-Cresol (ug/L)						< 100	7200	4500	< 2000
o-Cresol (ug/L)						760	< 1100	4800	< 1000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	01/05/95	03/09/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)	< 1000	< 1000	< 10000	< 2500
2,3,5,6-Tetrachlorophenol (ug/L)				
2,4,5-Trichlorophenol (ug/L)	< 2000	< 2000	< 20000	< 1000
2,4,6-Trichlorophenol (ug/L)	< 1000	< 1000	< 10000	< 1000
2,4-Dichlorophenol (ug/L)	< 1000	< 1000	< 10000	< 1000
2,4-Dimethylphenol (ug/L)	< 1000	< 1000	< 10000	< 1000
2,4-Dinitrophenol (ug/L)	< 2000	< 2000	< 20000	< 5000
2,6-Dichlorophenol (ug/L)	< 1000	< 1000	< 10000	
2-Chlorophenol (ug/L)				< 1000
2-Nitrophenol (ug/L)	6600	< 1000	19000	< 1000
4,6-Dinitro-2-methylphenol (ug/L)	< 1000	< 1000	< 10000	< 5000
4-Chloro-3-methylphenol (ug/L)	< 1000	< 1000	< 10000	< 2000
4-Nitrophenol (ug/L)	5500	< 2000	< 20000	< 5000
Dinoseb (ug/L)	< 1000	< 1000	< 10000	< 2500
Pentachlorophenol (ug/L)	26000	36000	26000	23000
Phenol (ug/L)				< 1000
Phenol/2-Chlorophenol (ug/L)	18000	< 2000	< 20000	
m & p-Cresol (ug/L)	2300	13000	< 20000	< 2000
o-Cresol (ug/L)	< 1000	< 1000	< 10000	< 1000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03B 1

Parameter	06/17/91	02/22/92	09/17/92	12/18/92	03/23/93	06/29/93	12/28/93	06/22/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)						75	< 10	11	< 25
2,3,5,6-Tetrachlorophenol (ug/L)	< 1.02	< 1	< 1	< 1	< 10				
2,4,5-Trichlorophenol (ug/L)						< 20	< 20	< 20	< 10
2,4,6-Trichlorophenol (ug/L)	5.17	< 1	1.04	< 1	< 3	< 10	< 10	< 10	< 10
2,4-Dichlorophenol (ug/L)	< .51	< .5	< .5	< .5	< 1	< 10	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)	< .51	< .5	< .5	< .5	< 1	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)	2.1	< 1	< 1	< 1	< 3	< 20	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)						< 10	< 10	< 10	
2-Chlorophenol (ug/L)	< .51	1.9	< .5	1.61	< 1				< 10
2-Nitrophenol (ug/L)	< .51	< .5	< .5	< .5	< 1	< 10	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 1.02	< 1	< 1	< 1	< 5	< 10	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)	< .51	< .5	< .5	< .5	< 5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)	< 1.02	< 1	< 1	< 1	< 5	< 20	< 20	< 20	< 50
Dinoseb (ug/L)						< 10	< 10	< 10	< 25
Pentachlorophenol (ug/L)	394	25.4	215	103	17.8	1300	24	180	60
Phenol (ug/L)	< .51	< .5	< .5	1.31	< 1				< 10
Phenol/2-Chlorophenol (ug/L)						< 20	< 20	< 20	
m & p-Cresol (ug/L)						< 20	< 20	< 20	< 20
o-Cresol (ug/L)						< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	14.8	< 1	< 1	< 1	< 1	220	153	3.63
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	1.18	< 1	< 1	11.5	4.04	3.3	< 1	3.21	36.7
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 3

Parameter	06/17/91	10/08/91	02/20/92	06/14/92	09/17/92	12/19/92	03/23/93	06/28/93	12/27/93
2,3,4,6-Tetrachlorophenol (ug/L)								19	< 10
2,3,5,6-Tetrachlorophenol (ug/L)			< 1	< 1.05	< 1	< 1	< 20		
2,4,5-Trichlorophenol (ug/L)								< 20	< 20
2,4,6-Trichlorophenol (ug/L)			1.02	6.69	< 1	< 1	< 6	< 10	< 10
2,4-Dichlorophenol (ug/L)			< .5	< .526	< .5	< .5	< 2	< 10	< 10
2,4-Dimethylphenol (ug/L)			< .5	3.77	< .5	< .5	< 2	< 10	< 10
2,4-Dinitrophenol (ug/L)			< 1	< 1.05	< 1	< 1	< 6	< 20	< 20
2,6-Dichlorophenol (ug/L)								< 10	< 10
2-Chlorophenol (ug/L)			< .5	< .526	< .5	< .5	< 2		
2-Nitrophenol (ug/L)			< .5	< .526	< .5	< .5	< 2	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)			< 1	< 1.05	< 1	< 1	< 10	< 10	< 10
4-Chloro-3-methylphenol (ug/L)			< .5	< .526	< .5	< .5	< 10	< 10	< 10
4-Nitrophenol (ug/L)			< 1	< 1.05	< 1	< 1	< 10	< 20	< 20
Dinoseb (ug/L)								< 10	< 10
Pentachlorophenol (ug/L)	1.12	4.7	11	55.3	23	4.85	< 10	130	12
Phenol (ug/L)			3.5	< .526	< .5	< .5	< 2		
Phenol/2-Chlorophenol (ug/L)								< 20	< 20
m & p-Cresol (ug/L)								< 20	< 20
o-Cresol (ug/L)								< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	04/25/94	06/21/94	10/04/94	01/05/95	03/09/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)	< 1	10	< 50	< 10	< 10	< 25
2,3,5,6-Tetrachlorophenol (ug/L)						
2,4,5-Trichlorophenol (ug/L)	< 1	< 20	< 100	< 20	< 20	< 10
2,4,6-Trichlorophenol (ug/L)	< 1	< 10	< 50	< 10	< 10	< 10
2,4-Dichlorophenol (ug/L)	< 1	< 10	< 50	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)	< 10	< 10	< 50	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)	< 1	< 20	< 100	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)	< 1	< 10	< 50	< 10	< 10	
2-Chlorophenol (ug/L)						< 10
2-Nitrophenol (ug/L)	< 1	< 10	< 50	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 1	< 10	< 50	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)	< 10	< 10	< 50	< 10	< 10	< 20
4-Nitrophenol (ug/L)	< 1	< 20	< 100	< 20	< 20	< 50
Dinoseb (ug/L)	< 1	< 10	< 50	< 10	< 10	< 25
Pentachlorophenol (ug/L)	< 1	480	470	98	< 10	< 50
Phenol (ug/L)						< 10
Phenol/2-Chlorophenol (ug/L)	< 20	< 20	< 100	< 20	< 20	
m & p-Cresol (ug/L)	< 20	< 20	< 100	< 20	< 20	< 20
o-Cresol (ug/L)	< 10	< 10	< 50	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W09 1

Parameter	06/04/87	09/03/87	12/03/87	03/02/88	04/07/88	08/10/88	11/15/88	01/26/89	04/27/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	2.2	< 1	< 1	< 1	< 1	1.05	< 1	< 1	< 1
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/12/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	< 1	< 1	< 1	< 1	1.64	< 1	1.65	2.79
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/08/91	06/18/92	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)				< 1	< 100	< 100	< 26
2,3,5,6-Tetrachlorophenol (ug/L)		11	< 1				
2,4,5-Trichlorophenol (ug/L)				< 1	< 200	< 200	< 10
2,4,6-Trichlorophenol (ug/L)		3.79	< 1	< 1	< 100	< 100	< 10
2,4-Dichlorophenol (ug/L)		< .515	< .5	< 1	< 100	< 100	< 10
2,4-Dimethylphenol (ug/L)		1.29	< .5	< 10	< 100	< 100	< 10
2,4-Dinitrophenol (ug/L)		< 1.03	< 1	< 1	< 200	< 200	< 51
2,6-Dichlorophenol (ug/L)				< 1	< 100	< 100	
2-Chlorophenol (ug/L)		< .515	< .5				< 10
2-Nitrophenol (ug/L)		< .515	< .5	< 1	< 100	< 100	< 10
4,6-Dinitro-2-methylphenol (ug/L)		< 1.03	< 1	< 1	< 100	< 100	< 51
4-Chloro-3-methylphenol (ug/L)		< .515	< .5	< 10	< 100	< 100	< 20
4-Nitrophenol (ug/L)		< 1.03	1.77	< 1	< 200	< 200	< 51
Dinoseb (ug/L)				< 1	360	< 100	< 26
Pentachlorophenol (ug/L)	5.23	21.9	26.7	< 1	640	120	< 51
Phenol (ug/L)		2.28	< .5				< 10
Phenol/2-Chlorophenol (ug/L)				< 20	< 200	< 200	
m & p-Cresol (ug/L)				< 20	< 200	< 200	< 20.4
o-Cresol (ug/L)				< 10	< 100	< 100	< 10.2

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	< 1	< 1	4.74	< 1	< 1	< 1	< 1	1.93
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W13

Parameter	06/22/92	12/19/92	06/30/93	12/27/93	04/25/94	06/22/94	10/04/94	03/10/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)			< 100	120	190	120	12	< 100	33
2,3,5,6-Tetrachlorophenol (ug/L)	< 1.02	< 1							
2,4,5-Trichlorophenol (ug/L)			< 200	< 200	25	< 200	< 20	< 200	< 10
2,4,6-Trichlorophenol (ug/L)	< 1.02	< 1	< 100	< 100	< 10	< 100	< 10	< 100	< 10
2,4-Dichlorophenol (ug/L)	< .51	< .5	< 100	< 100	< 10	< 100	< 10	< 100	< 10
2,4-Dimethylphenol (ug/L)	< .51	< .5	< 100	< 100	< 10	< 100	< 10	< 100	< 10
2,4-Dinitrophenol (ug/L)	< 1.02	< 1	< 200	< 200	21	< 200	< 20	< 200	< 50
2,6-Dichlorophenol (ug/L)			< 100	< 100	< 10	< 100	< 10	< 100	
2-Chlorophenol (ug/L)	< .51	< .5							< 10
2-Nitrophenol (ug/L)	< .51	< .5	< 100	< 100	< 10	< 100	< 10	< 100	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 1.02	< 1	< 100	< 100	11	< 100	< 10	< 100	< 50
4-Chloro-3-methylphenol (ug/L)	< .51	< .5	< 100	< 100	< 10	< 100	< 10	< 100	< 20
4-Nitrophenol (ug/L)	< 1.02	< 1	< 200	< 200	< 20	< 200	< 20	< 200	< 50
Dinoseb (ug/L)			< 100	< 100	< 10	< 100	< 10	< 100	< 25
Pentachlorophenol (ug/L)	636	4550	540	1800	520	1500	220	530	390
Phenol (ug/L)	4.42	< .5							< 10
Phenol/2-Chlorophenol (ug/L)			< 200	< 200	< 20	< 200	< 20	< 200	
m & p-Cresol (ug/L)			< 200	< 200	< 20	< 200	< 20	< 200	< 20
o-Cresol (ug/L)			< 100	< 100	< 10	< 100	< 10	< 100	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W12 1

Parameter	06/18/92	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)			< 1	< 1.1	< 10	47
2,3,5,6-Tetrachlorophenol (ug/L)	< 1.03	< 1				
2,4,5-Trichlorophenol (ug/L)			< 1	< 1.1	< 20	< 10
2,4,6-Trichlorophenol (ug/L)	< 1.03	< 1	< 1	< 1.1	< 10	< 10
2,4-Dichlorophenol (ug/L)	< .515	< .5	< 1	< 1.1	< 10	< 10
2,4-Dimethylphenol (ug/L)	< .515	< .5	< 10	< 11	< 10	< 10
2,4-Dinitrophenol (ug/L)	< 1.03	< 1	< 1	< 1.1	< 20	< 50
2,6-Dichlorophenol (ug/L)			< 1	< 1.1	< 10	
2-Chlorophenol (ug/L)	< .515	< .5				< 10
2-Nitrophenol (ug/L)	< .515	< .5	< 1	< 1.1	14	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 1.03	< 1	< 1	< 1.1	< 10	< 50
4-Chloro-3-methylphenol (ug/L)	< .515	< .5	< 10	< 11	< 10	< 20
4-Nitrophenol (ug/L)	< 1.03	< 1	< 1	< 1.1	< 20	< 50
Dinoseb (ug/L)			< 1	< 1.1	< 10	< 25
Pentachlorophenol (ug/L)	2.83	3.67	< 1	< 1.1	73	210
Phenol (ug/L)	11.4	< .5				< 10
Phenol/2-Chlorophenol (ug/L)			< 20	< 22	< 20	
m & p-Cresol (ug/L)			< 20	< 22	< 20	< 20
o-Cresol (ug/L)			< 10	< 11	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W11 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/12/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	384	142	1.66	300	736	2940	2690	3080	2410
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	10/08/91	06/18/92	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)					< 1	< 10	17	< 25
2,3,5,6-Tetrachlorophenol (ug/L)			< 1.02	< 1				
2,4,5-Trichlorophenol (ug/L)					< 1	< 20	< 20	< 10
2,4,6-Trichlorophenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 10
2,4-Dichlorophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)					< 1	< 10	< 10	
2-Chlorophenol (ug/L)			< .51	< .5				< 10
2-Nitrophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
Dinoseb (ug/L)					< 1	< 10	< 10	< 25
Pentachlorophenol (ug/L)	1420	891	44.4	209	82	70	140	< 50
Phenol (ug/L)			7.16	< .5				< 10
Phenol/2-Chlorophenol (ug/L)					< 20	< 20	< 20	
m & p-Cresol (ug/L)					< 20	< 20	< 20	< 20
o-Cresol (ug/L)					< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W11 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	2050	2410	49.3	163	824	< 1	1000	329	321
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10B 1

Parameter	07/08/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)			1.8	< 10	66	< 25
2,3,5,6-Tetrachlorophenol (ug/L)	< 1.07	< 1				
2,4,5-Trichlorophenol (ug/L)			< 1	< 20	27	< 10
2,4,6-Trichlorophenol (ug/L)	< 1.07	< 1	< 1	< 10	16	< 10
2,4-Dichlorophenol (ug/L)	1.31	< .5	< 1	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)	< .535	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)	< 1.07	< 1	< 1	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)			< 1	< 10	< 10	
2-Chlorophenol (ug/L)	< .535	< .5				< 10
2-Nitrophenol (ug/L)	< .535	< .5	< 1	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 1.07	< 1	< 1	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)	< .535	< .5	< 10	< 10	17	< 20
4-Nitrophenol (ug/L)	< 1.07	< 1	< 1	< 20	< 20	< 50
Dinoseb (ug/L)			< 1	< 10	< 10	< 25
Pentachlorophenol (ug/L)	39.2	30.3	8.4	23	33	< 50
Phenol (ug/L)	< .535	< .5				< 10
Phenol/2-Chlorophenol (ug/L)			< 20	< 20	< 20	
m & p-Cresol (ug/L)			< 20	< 20	< 20	< 20
o-Cresol (ug/L)			< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10A 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	8580	15200	10100	12700	8450	8520	9320	12300	29800
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	10/08/91	07/08/92	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)					650	1000	1600	960
2,3,5,6-Tetrachlorophenol (ug/L)			13.1	19.7				
2,4,5-Trichlorophenol (ug/L)					220	< 200	540	< 250
2,4,6-Trichlorophenol (ug/L)			108	< 1	< 100	< 100	450	< 250
2,4-Dichlorophenol (ug/L)			< .526	< .5	< 100	120	< 100	< 250
2,4-Dimethylphenol (ug/L)			1.67	< .5	< 100	< 100	< 100	< 250
2,4-Dinitrophenol (ug/L)			47.4	< 1	450	< 200	470	< 1300
2,6-Dichlorophenol (ug/L)					< 100	< 100	< 100	
2-Chlorophenol (ug/L)			< .526	< .5				< 250
2-Nitrophenol (ug/L)			4.82	< .5	< 100	< 100	< 100	< 250
4,6-Dinitro-2-methylphenol (ug/L)			< 1.05	< 1	< 100	< 100	< 100	< 1300
4-Chloro-3-methylphenol (ug/L)			< .526	< .5	< 100	< 100	< 100	< 500
4-Nitrophenol (ug/L)			3.78	12.3	< 200	< 200	240	< 1300
Dinoseb (ug/L)					< 100	< 100	< 100	< 630
Pentachlorophenol (ug/L)	9550	16500	7400	11800	11000	14000	17000	6600
Phenol (ug/L)			.714	60.4				< 250
Phenol/2-Chlorophenol (ug/L)					< 200	220	< 200	
m & p-Cresol (ug/L)					< 200	< 200	< 200	< 500
o-Cresol (ug/L)					< 100	< 100	< 100	< 250

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10A 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	10800	3200	7510	4830	13500	12100	11900	8600	11500
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W09 2

Parameter	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91	06/18/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	< 1	6.51	< 1	2.37	1.53	8.59	2.07	< 1
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/91	10/08/91	06/24/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)					< 1	< 10	< 10	< 25
2,3,5,6-Tetrachlorophenol (ug/L)			< 1.02	< 1				
2,4,5-Trichlorophenol (ug/L)					< 1	< 20	< 20	< 10
2,4,6-Trichlorophenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 10
2,4-Dichlorophenol (ug/L)			2.39	< .5	< 1	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)					< 1	< 10	< 10	
2-Chlorophenol (ug/L)			< .51	< .5				< 10
2-Nitrophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)			1.23	< 1	< 1	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)			.582	< .5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
Dinoseb (ug/L)					< 1	< 10	< 10	< 25
Pentachlorophenol (ug/L)	< 1	6.49	< 1.02	2.43	< 1	11	26	< 50
Phenol (ug/L)			< .51	< .5				< 10
Phenol/2-Chlorophenol (ug/L)					< 20	< 20	< 20	
m & p-Cresol (ug/L)					< 20	< 20	< 20	< 20
o-Cresol (ug/L)					< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	12.4	27.3	< 1	< 1	13.9	< 1	13.7	19.8	2.34
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/12/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	265	2.04	1.49	31	1.66	3.44	1.93	4.53	< 1
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	10/08/91	06/16/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)					< 1	< 10	< 10	< 34
2,3,5,6-Tetrachlorophenol (ug/L)			< 1.02	< 1				
2,4,5-Trichlorophenol (ug/L)					< 1	< 20	< 20	< 14
2,4,6-Trichlorophenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 14
2,4-Dichlorophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 14
2,4-Dimethylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 14
2,4-Dinitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 69
2,6-Dichlorophenol (ug/L)					< 1	< 10	< 10	
2-Chlorophenol (ug/L)			< .51	< .5				< 14
2-Nitrophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 14
4,6-Dinitro-2-methylphenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 69
4-Chloro-3-methylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 27
4-Nitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 69
Dinoseb (ug/L)					< 1	< 10	< 10	< 34
Pentachlorophenol (ug/L)	2.03	5.35	< 1.02	4.79	< 1	11	43	< 69
Phenol (ug/L)			27.6	< .5				< 14
Phenol/2-Chlorophenol (ug/L)					< 20	< 20	< 20	
m & p-Cresol (ug/L)					< 20	< 20	< 20	< 27.4
o-Cresol (ug/L)					< 10	< 10	< 10	< 13.7

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W18 1

Parameter	02/25/92	07/08/92	09/17/92	12/17/92	03/23/93	06/29/93	12/28/93	06/22/94	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)						750	840	1000	< 640
2,3,5,6-Tetrachlorophenol (ug/L)	< 10	17	47.8	33.8	< 20				
2,4,5-Trichlorophenol (ug/L)						< 200	52	400	< 260
2,4,6-Trichlorophenol (ug/L)	146	< 1.02	< 1	< 1	< 6	< 100	170	400	< 260
2,4-Dichlorophenol (ug/L)	< 5	70.8	29.6	15	< 2	< 100	< 10	220	< 260
2,4-Dimethylphenol (ug/L)	< 5	9.67	< .5	< .5	< 2	< 100	23	< 100	< 260
2,4-Dinitrophenol (ug/L)	< 10	85.9	< 1	< 1	< 6	< 200	45	350	< 1300
2,6-Dichlorophenol (ug/L)						< 100	16	< 100	
2-Chlorophenol (ug/L)	< 5	< .51	1.68	< .5	< 2				< 260
2-Nitrophenol (ug/L)	17.3	3.6	4.25	< .5	< 2	< 100	< 10	< 100	< 260
4,6-Dinitro-2-methylphenol (ug/L)	< 10	< 1.02	4.39	< 1	< 10	< 100	< 10	< 100	< 1300
4-Chloro-3-methylphenol (ug/L)	< 5	24.9	< .5	< .5	< 10	< 100	100	< 100	< 510
4-Nitrophenol (ug/L)	< 10	< 1.02	102	< 1	< 10	< 200	< 20	< 200	< 1300
Dinoseb (ug/L)						< 100	< 10	< 100	< 640
Pentachlorophenol (ug/L)	11800	9380	11600	19500	7470	13000	5600	11000	5100
Phenol (ug/L)	< 5	27	< .5	60.7	< 2				< 260
Phenol/2-Chlorophenol (ug/L)						< 200	90	< 200	
m & p-Cresol (ug/L)						< 200	< 20	< 200	< 510
o-Cresol (ug/L)						< 100	14	< 100	< 255

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W19 1

Parameter	06/24/92	12/18/92	06/30/93	12/28/93	04/25/94	06/21/94	10/04/94	03/10/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)			< 100	200	220	250	< 100	< 500	95
2,3,5,6-Tetrachlorophenol (ug/L)	< 1.02	11.9							
2,4,5-Trichlorophenol (ug/L)			< 200	< 200	< 20	< 200	< 200	< 1000	< 10
2,4,6-Trichlorophenol (ug/L)	< 1.02	< 1	< 100	< 100	460	< 100	< 100	< 500	< 10
2,4-Dichlorophenol (ug/L)	< .51	23.2	< 100	< 100	150	< 100	< 100	< 500	< 10
2,4-Dimethylphenol (ug/L)	< .51	< .5	< 100	< 100	51	110	< 100	< 500	< 10
2,4-Dinitrophenol (ug/L)	21.1	3.86	< 200	< 200	180	270	< 200	< 1000	< 50
2,6-Dichlorophenol (ug/L)			< 100	< 100	76	< 100	< 100	< 500	
2-Chlorophenol (ug/L)	< .51	< .5							< 10
2-Nitrophenol (ug/L)	< .51	< .5	< 100	< 100	160	410	200	< 500	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 1.02	< 1	< 100	< 100	40	< 100	< 100	< 500	< 50
4-Chloro-3-methylphenol (ug/L)	< .51	2.94	< 100	< 100	27	< 100	< 100	< 500	< 20
4-Nitrophenol (ug/L)	< 1.02	< 1	< 200	< 200	34	< 200	< 200	< 1000	< 50
Dinoseb (ug/L)			< 100	< 100	13	< 100	< 100	< 500	< 25
Pentachlorophenol (ug/L)	3240	4730	2100	3400	660	2900	2200	1200	300
Phenol (ug/L)	54.6	63.7							< 10
Phenol/2-Chlorophenol (ug/L)			< 200	300	150	290	380	< 1000	
m & p-Cresol (ug/L)			< 200	< 200	69	< 200	< 200	< 1000	< 20
o-Cresol (ug/L)			< 100	140	94	240	< 100	< 500	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W20 1

Parameter	01/08/87	06/04/87	12/03/87	03/03/88	04/07/88	11/15/88	01/26/89	04/27/89	07/27/89
Pentachlorophenol (ug/L)	1290	2350	513	3000	1360	2600	6730	3240	3350

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91	10/08/91
Pentachlorophenol (ug/L)	6520	1640	12.1	27	420	177	186	879

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W21 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	1.96	< 1	< 1	< 1	< 1	< 1	5.55	182	2.47
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W21 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/12/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	< 1	< 1	3.86	1.09	8.96	2.36	1.84	< 1
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	10/08/91	06/24/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)					< 1	< 10	100	< 25
2,3,5,6-Tetrachlorophenol (ug/L)			< 1.02	< 1				
2,4,5-Trichlorophenol (ug/L)					< 1	< 20	56	< 10
2,4,6-Trichlorophenol (ug/L)			< 1.02	< 1	< 1	< 10	27	< 10
2,4-Dichlorophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)					< 1	< 10	< 10	
2-Chlorophenol (ug/L)			< .51	< .5				< 10
2-Nitrophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
Dinoseb (ug/L)					< 1	< 10	< 10	< 25
Pentachlorophenol (ug/L)	2.33	4.21	< 1.02	26.5	2.8	33	44	< 50
Phenol (ug/L)			< .51	2.63				< 10
Phenol/2-Chlorophenol (ug/L)					< 20	< 20	< 20	
m & p-Cresol (ug/L)					< 20	< 20	< 20	< 20
o-Cresol (ug/L)					< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W22 1

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	04/25/94	06/22/94
2,3,4,6-Tetrachlorophenol (ug/L)						< 1	< 100	430	2900
2,3,5,6-Tetrachlorophenol (ug/L)	< 10	73.1	< 1	69.9	< 20				
2,4,5-Trichlorophenol (ug/L)						< 1	< 200	< 20	930
2,4,6-Trichlorophenol (ug/L)	< 10	< 11.1	< 1	1230	< 6	< 1	< 100	< 10	1800
2,4-Dichlorophenol (ug/L)	< 5	77.9	1.62	< .5	< 2	< 1	< 100	140	600
2,4-Dimethylphenol (ug/L)	< 5	< 5.56	< .5	< .5	< 2	< 10	< 100	110	< 100
2,4-Dinitrophenol (ug/L)	< 10	< 11.1	< 1	< 1	< 6000	< 1	< 200	45	200
2,6-Dichlorophenol (ug/L)						< 1	< 100	66	310
2-Chlorophenol (ug/L)	< 5	< .556	< .5	< .5	< 2				
2-Nitrophenol (ug/L)	< 5	< 5.56	< .5	70.1	< 2	< 1	< 100	110	210
4,6-Dinitro-2-methylphenol (ug/L)	12	1.7	< 1	< 1	< 10	< 1	< 100	19	150
4-Chloro-3-methylphenol (ug/L)	< 5	< 5.56	< .5	< .5	< 10	< 10	< 100	130	300
4-Nitrophenol (ug/L)	< 10	< 1.11	1.14	25.8	< 10	< 1	< 200	71	300
Dinoseb (ug/L)						< 1	< 100	24	< 100
Pentachlorophenol (ug/L)	37300	33500	117	74300	81440	1.4	1500	1100	6100
Phenol (ug/L)	< 5	< .556	< .5	119	< 2				
Phenol/2-Chlorophenol (ug/L)						< 20	460	27	< 200
m & p-Cresol (ug/L)						< 20	< 200	< 20	< 200
o-Cresol (ug/L)						< 10	< 100	17	< 100

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	03/09/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)	190	< 1000	< 630
2,3,5,6-Tetrachlorophenol (ug/L)			
2,4,5-Trichlorophenol (ug/L)	< 100	< 2000	< 250
2,4,6-Trichlorophenol (ug/L)	< 50	< 1000	< 250
2,4-Dichlorophenol (ug/L)	< 50	< 1000	< 250
2,4-Dimethylphenol (ug/L)	< 50	< 1000	< 250
2,4-Dinitrophenol (ug/L)	< 100	< 2000	< 1300
2,6-Dichlorophenol (ug/L)	< 50	< 1000	
2-Chlorophenol (ug/L)			< 250
2-Nitrophenol (ug/L)	< 50	< 1000	< 250
4,6-Dinitro-2-methylphenol (ug/L)	< 50	< 1000	< 1300
4-Chloro-3-methylphenol (ug/L)	< 50	< 1000	< 500
4-Nitrophenol (ug/L)	< 100	< 2000	< 1300
Dinoseb (ug/L)	< 50	< 1000	< 630
Pentachlorophenol (ug/L)	1400	7300	2600
Phenol (ug/L)			< 250
Phenol/2-Chlorophenol (ug/L)	< 100	< 2000	
m & p-Cresol (ug/L)	< 100	< 2000	< 500
o-Cresol (ug/L)	< 50	< 1000	< 250

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W25 1

Parameter	02/19/92	07/29/92	09/17/92	12/17/92	03/23/93	06/28/93	12/28/93	04/25/94	06/21/94
2,3,4,6-Tetrachlorophenol (ug/L)						< 10	16	140	280
2,3,5,6-Tetrachlorophenol (ug/L)	< 1	10.3	< 1	7.02	< 20				
2,4,5-Trichlorophenol (ug/L)						< 20	< 1	310	140
2,4,6-Trichlorophenol (ug/L)	< 1	1.3	10.4	4.04	< 6	< 10	< 1	260	110
2,4-Dichlorophenol (ug/L)	7.15	9.9	2.1	10.2	< 2	< 10	< 1	53	110
2,4-Dimethylphenol (ug/L)	8	1.87	< .5	< .5	< 2	< 10	< 10	52	32
2,4-Dinitrophenol (ug/L)	< 1	3.09	1.57	< 1	< 6	< 20	< 1	190	60
2,6-Dichlorophenol (ug/L)						< 10	< 1	42	32
2-Chlorophenol (ug/L)	5.85	< .5	.547	< .5	< 2				
2-Nitrophenol (ug/L)	< .5	< .5	< .5	< .5	< 2	53	< 1	19	77
4,6-Dinitro-2-methylphenol (ug/L)	< 1	< 1	< 1	< 1	< 10	< 10	< 1	17	33
4-Chloro-3-methylphenol (ug/L)	< .5	1.64	< .5	< .5	< 10	< 10	< 10	100	41
4-Nitrophenol (ug/L)	< 1	1.75	1.29	< 1	< 10	38	< 1	28	71
Dinoseb (ug/L)						< 10	< 1	< 10	< 10
Pentachlorophenol (ug/L)	3570	71.1	55.4	42.2	99.9	< 10	4.3	410	2400
Phenol (ug/L)	< .5	< .5	< .5	< .5	< 2				
Phenol/2-Chlorophenol (ug/L)						37	< 20	< 20	34
m & p-Cresol (ug/L)						13	< 20	23	< 20
o-Cresol (ug/L)						12	< 10	< 10	23

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	10/04/94	03/10/95	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)	< 250	< 1000	320
2,3,5,6-Tetrachlorophenol (ug/L)			
2,4,5-Trichlorophenol (ug/L)	< 500	< 2000	< 10
2,4,6-Trichlorophenol (ug/L)	< 250	< 1000	< 10
2,4-Dichlorophenol (ug/L)	< 250	< 1000	< 10
2,4-Dimethylphenol (ug/L)	< 250	< 1000	< 10
2,4-Dinitrophenol (ug/L)	< 500	< 2000	< 50
2,6-Dichlorophenol (ug/L)	< 250	< 1000	
2-Chlorophenol (ug/L)			< 10
2-Nitrophenol (ug/L)	< 250	< 1000	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 250	< 1000	< 50
4-Chloro-3-methylphenol (ug/L)	< 250	< 1000	< 20
4-Nitrophenol (ug/L)	< 500	< 2000	< 50
Dinoseb (ug/L)	< 250	< 1000	< 25
Pentachlorophenol (ug/L)	2300	4500	560
Phenol (ug/L)			< 10
Phenol/2-Chlorophenol (ug/L)	< 500	< 2000	
m & p-Cresol (ug/L)	< 500	< 2000	< 20
o-Cresol (ug/L)	< 250	< 1000	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W26 1

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/27/93	04/25/94	06/22/94
2,3,4,6-Tetrachlorophenol (ug/L)						1600	1600	4800	2900
2,3,5,6-Tetrachlorophenol (ug/L)	< 10	69.9	74	40.6	< 10				
2,4,5-Trichlorophenol (ug/L)						< 200	380	< 2000	690
2,4,6-Trichlorophenol (ug/L)	< 10	< 10.5	< 1	< 1	< 3	< 100	< 100	< 1000	1100
2,4-Dichlorophenol (ug/L)	< 5	< 5.26	177	< .5	< 1	130	< 100	< 1000	250
2,4-Dimethylphenol (ug/L)	< 5	< 5.26	< .5	< .5	< 1	< 100	< 100	< 1000	< 100
2,4-Dinitrophenol (ug/L)	< 10	< 1.05	< 1	< 1	< 3000	450	< 200	< 2000	480
2,6-Dichlorophenol (ug/L)						< 100	< 100	< 1000	270
2-Chlorophenol (ug/L)	< 5	< .526	5.74	< .5	< 1				
2-Nitrophenol (ug/L)	25.7	< 5.26	110	71.2	< 1	< 100	< 100	< 1000	180
4,6-Dinitro-2-methylphenol (ug/L)	< 10	< 1.05	< 1	< 1	< 5	< 100	< 100	< 1000	< 100
4-Chloro-3-methylphenol (ug/L)	< 5	< 5.26	< .5	< .5	< 5	< 100	< 100	< 1000	280
4-Nitrophenol (ug/L)	< 10	< 1.05	139	< 1	< 5	< 200	< 200	< 2000	230
Dinoseb (ug/L)						< 100	< 100	< 1000	< 100
Pentachlorophenol (ug/L)	22300	26100	31700	45100	30400	16000	3500	32000	6400
Phenol (ug/L)	< 5	< .526	< .5	152	< 1				
Phenol/2-Chlorophenol (ug/L)						< 200	< 200	< 2000	< 200
m & p-Cresol (ug/L)						< 200	< 200	< 2000	< 200
o-Cresol (ug/L)						< 100	< 100	< 1000	< 100

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W26 2

Parameter	10/04/94	03/09/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)	4100	< 1000	7600
2,3,5,6-Tetrachlorophenol (ug/L)			
2,4,5-Trichlorophenol (ug/L)	< 500	< 2000	< 10
2,4,6-Trichlorophenol (ug/L)	< 250	< 1000	< 10
2,4-Dichlorophenol (ug/L)	450	< 1000	< 10
2,4-Dimethylphenol (ug/L)	< 250	< 1000	< 10
2,4-Dinitrophenol (ug/L)	< 500	< 2000	< 50
2,6-Dichlorophenol (ug/L)	< 250	< 1000	
2-Chlorophenol (ug/L)			< 10
2-Nitrophenol (ug/L)	< 250	< 1000	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 250	< 1000	< 50
4-Chloro-3-methylphenol (ug/L)	< 250	< 1000	< 20
4-Nitrophenol (ug/L)	< 500	2900	< 50
Dinoseb (ug/L)	< 250	< 1000	< 25
Pentachlorophenol (ug/L)	12000	14000	< 5000
Phenol (ug/L)			< 10
Phenol/2-Chlorophenol (ug/L)	< 500	< 2000	
m & p-Cresol (ug/L)	< 500	< 2000	< 20
o-Cresol (ug/L)	< 250	< 1000	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W27

Parameter	06/24/92	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)			710	3000	3000	< 1300
2,3,5,6-Tetrachlorophenol (ug/L)	23.5	< 1				
2,4,5-Trichlorophenol (ug/L)			< 200	400	210	< 500
2,4,6-Trichlorophenol (ug/L)	< 10.5	< 1	< 100	< 100	980	< 500
2,4-Dichlorophenol (ug/L)	< 5.26	19	< 100	320	150	< 500
2,4-Dimethylphenol (ug/L)	< 5.26	7.9	< 100	< 100	< 100	< 500
2,4-Dinitrophenol (ug/L)	< 10.5	< 1	< 200	< 200	250	< 2500
2,6-Dichlorophenol (ug/L)			< 100	< 100	< 100	
2-Chlorophenol (ug/L)	< 5.26	< .5				< 500
2-Nitrophenol (ug/L)	32.3	< .5	< 100	< 100	< 100	< 500
4,6-Dinitro-2-methylphenol (ug/L)	< 10.5	< 1	< 100	370	< 100	< 2500
4-Chloro-3-methylphenol (ug/L)	15.7	81.2	< 100	< 100	270	< 1000
4-Nitrophenol (ug/L)	< 10.5	< 1	< 200	< 200	340	< 2500
Dinoseb (ug/L)			< 100	< 100	< 100	< 1300
Pentachlorophenol (ug/L)	16600	21300	10000	30000	33000	7700
Phenol (ug/L)	74.4	105				< 500
Phenol/2-Chlorophenol (ug/L)			< 200	240	< 200	
m & p-Cresol (ug/L)			< 200	< 200	< 200	< 1000
o-Cresol (ug/L)			< 100	110	< 100	< 500

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W28 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	350	887	488	2710	10000	6480	1100	466	1750
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W28 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/20/90	12/11/90	01/29/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	3670	57.4	226	301	4460	2260	2120	3150	4600
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/91	10/08/91	07/08/92	12/17/92	06/29/93	12/28/93	06/22/94	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)					120	46	53	87
2,3,5,6-Tetrachlorophenol (ug/L)			< 1.49	4.29				
2,4,5-Trichlorophenol (ug/L)					< 20	< 20	< 20	< 10
2,4,6-Trichlorophenol (ug/L)			< 1.49	2.62	< 10	< 10	< 10	< 10
2,4-Dichlorophenol (ug/L)			< .746	< .5	< 10	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)			< .746	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)			< 1.49	< 1	< 20	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)					< 10	< 10	< 10	
2-Chlorophenol (ug/L)			< .746	< .5				< 10
2-Nitrophenol (ug/L)			< .746	< .5	< 10	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)			< 1.49	< 1	< 10	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)			< .746	< .5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)			< 1.49	< 1	< 20	< 20	< 20	< 50
Dinoseb (ug/L)					< 10	< 10	< 10	< 25
Pentachlorophenol (ug/L)	4600	4270	793	6640	2300	800	660	380
Phenol (ug/L)			< .746	3.15				< 10
Phenol/2-Chlorophenol (ug/L)					< 20	< 20	< 20	
m & p-Cresol (ug/L)					< 20	< 20	< 20	< 20
o-Cresol (ug/L)					< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	10300	33900	12700	18600	16400	560	1600	12800	19000
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	16500	12700	8520	4960	37.2	1420	921	373	419
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	06/25/92	12/18/92	06/30/93	12/28/93	06/22/94	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)				< 1	81	31	140
2,3,5,6-Tetrachlorophenol (ug/L)		< 1.02	< 1				
2,4,5-Trichlorophenol (ug/L)				< 1	66	30	< 10
2,4,6-Trichlorophenol (ug/L)		< 1.02	< 1	< 1	< 10	21	< 10
2,4-Dichlorophenol (ug/L)		< .51	< .5	< 1	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)		< .51	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)		< 1.02	< 1	< 1	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)				< 1	< 10	< 10	
2-Chlorophenol (ug/L)		< .51	< .5				< 10
2-Nitrophenol (ug/L)		< .51	< .5	< 1	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)		< 1.02	< 1	< 1	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)		< .51	< .5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)		< 1.02	< 1	< 1	< 20	< 20	< 50
Dinoseb (ug/L)				< 1	< 10	< 10	< 25
Pentachlorophenol (ug/L)	41	120	1100	65	440	120	210
Phenol (ug/L)		.714	3.31				< 10
Phenol/2-Chlorophenol (ug/L)				< 20	< 20	< 20	
m & p-Cresol (ug/L)				< 20	< 20	< 20	< 20
o-Cresol (ug/L)				< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W31 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
Pentachlorophenol (ug/L)	2.62	< 1	< 1	< 1	< 1	< 1	3.35	1.58	3.06

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W31 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91
Pentachlorophenol (ug/L)	1.18	< 1	< 1	3.52	1.4	5.42	1.5	10	1.14

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	10/08/91
Pentachlorophenol (ug/L)	1.82	4.64

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W32 1

Parameter	01/08/87	06/04/87	09/03/87	12/03/87	03/03/88	04/07/88	08/10/88	11/15/88	01/26/89
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	< 1	< 1	< 1	< 1	< 1	1.45	< 1	< 1
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W32 2

Parameter	04/27/89	07/27/89	10/26/89	01/25/90	05/03/90	09/21/90	12/11/90	01/30/91	05/01/91
2,3,4,6-Tetrachlorophenol (ug/L)									
2,3,5,6-Tetrachlorophenol (ug/L)									
2,4,5-Trichlorophenol (ug/L)									
2,4,6-Trichlorophenol (ug/L)									
2,4-Dichlorophenol (ug/L)									
2,4-Dimethylphenol (ug/L)									
2,4-Dinitrophenol (ug/L)									
2,6-Dichlorophenol (ug/L)									
2-Chlorophenol (ug/L)									
2-Nitrophenol (ug/L)									
4,6-Dinitro-2-methylphenol (ug/L)									
4-Chloro-3-methylphenol (ug/L)									
4-Nitrophenol (ug/L)									
Dinoseb (ug/L)									
Pentachlorophenol (ug/L)	< 1	< 1	< 1	1.67	1.14	2.13	< 1	8.36	< 1
Phenol (ug/L)									
Phenol/2-Chlorophenol (ug/L)									
m & p-Cresol (ug/L)									
o-Cresol (ug/L)									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/19/91	10/08/91	06/24/92	12/19/92	06/29/93	12/28/93	06/22/94	07/05/95
2,3,4,6-Tetrachlorophenol (ug/L)					< 1	< 10	< 10	< 25
2,3,5,6-Tetrachlorophenol (ug/L)			< 1.02	< 1				
2,4,5-Trichlorophenol (ug/L)					< 1	< 20	< 20	< 10
2,4,6-Trichlorophenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 10
2,4-Dichlorophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
2,4-Dimethylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 10
2,4-Dinitrophenol (ug/L)			2.05	< 1	< 1	< 20	< 20	< 50
2,6-Dichlorophenol (ug/L)					< 1	< 10	< 10	
2-Chlorophenol (ug/L)			< .51	< .5				< 10
2-Nitrophenol (ug/L)			< .51	< .5	< 1	< 10	< 10	< 10
4,6-Dinitro-2-methylphenol (ug/L)			< 1.02	< 1	< 1	< 10	< 10	< 50
4-Chloro-3-methylphenol (ug/L)			< .51	< .5	< 10	< 10	< 10	< 20
4-Nitrophenol (ug/L)			< 1.02	< 1	< 1	< 20	< 20	< 50
Dinoseb (ug/L)					< 1	< 10	< 10	< 25
Pentachlorophenol (ug/L)	1.33	3.61	2.08	< 1	< 1	10	15	< 50
Phenol (ug/L)			.583	< .5				< 10
Phenol/2-Chlorophenol (ug/L)					< 20	< 20	< 20	
m & p-Cresol (ug/L)					< 20	< 20	< 20	< 20
o-Cresol (ug/L)					< 10	< 10	< 10	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W33

Parameter	06/30/93	10/04/94
2,3,4,6-Tetrachlorophenol (ug/L)	6800	3200
2,4,5-Trichlorophenol (ug/L)	< 2000	< 2000
2,4,6-Trichlorophenol (ug/L)	< 1000	< 1000
2,4-Dichlorophenol (ug/L)	< 1000	< 1000
2,4-Dimethylphenol (ug/L)	< 1000	< 1000
2,4-Dinitrophenol (ug/L)	< 2000	< 2000
2,6-Dichlorophenol (ug/L)	< 1000	< 1000
2-Nitrophenol (ug/L)	< 1000	< 1000
4,6-Dinitro-2-methylphenol (ug/L)	< 1000	< 1000
4-Chloro-3-methylphenol (ug/L)	< 1000	< 1000
4-Nitrophenol (ug/L)	< 2000	< 2000
Dinoseb (ug/L)	< 1000	< 1000
Pentachlorophenol (ug/L)	36000	19000
Phenol/2-Chlorophenol (ug/L)	< 2000	< 2000
m & p-Cresol (ug/L)	< 2000	6300
o-Cresol (ug/L)	2600	< 1000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W36 1

Parameter	02/20/92	08/03/92	09/17/92
2,3,5,6-Tetrachlorophenol (ug/L)	< 1	< 1	26
2,4,6-Trichlorophenol (ug/L)	< 1	< 10	< 1
2,4-Dichlorophenol (ug/L)	< .5	11.3	132
2,4-Dimethylphenol (ug/L)	22.1	< .5	29.2
2,4-Dinitrophenol (ug/L)	< 1	< 10	15.2
2-Chlorophenol (ug/L)	< .5	< 5	< .5
2-Nitrophenol (ug/L)	< .5	< 5	240
4,6-Dinitro-2-methylphenol (ug/L)	< 1	< 1	< 1
4-Chloro-3-methylphenol (ug/L)	< .5	< .5	< .5
4-Nitrophenol (ug/L)	< 1	< 1	67
Pentachlorophenol (ug/L)	7180	14800	8350
Phenol (ug/L)	< .5	155	< .5

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W37 1

Parameter	02/20/92	06/24/92	09/17/92	12/18/92	03/24/93
2,3,5,6-Tetrachlorophenol (ug/L)	< 1	129	59.3	< 1	< 10000
2,4,6-Trichlorophenol (ug/L)	121	< 10.2	< 1	< 1	< 3000
2,4-Dichlorophenol (ug/L)	< .5	158	< .5	< .5	< 1000
2,4-Dimethylphenol (ug/L)	23.2	< 5.1	22.4	< .5	< 1000
2,4-Dinitrophenol (ug/L)	< 1	< 10.2	10.1	< 1	< 3000
2-Chlorophenol (ug/L)	< .5	< 5.1	< .5	< .5	< 1000
2-Nitrophenol (ug/L)	< .5	< 5.1	< .5	< .5	< 1000
4,6-Dinitro-2-methylphenol (ug/L)	< 1	< 10.2	4.96	< 1	< 5000
4-Chloro-3-methylphenol (ug/L)	< .5	< 5.1	< .5	3.49	< 5000
4-Nitrophenol (ug/L)	< 1	< 10.2	65.5	19.4	< 5000
Pentachlorophenol (ug/L)	10600	20300	8570	6260	28768
Phenol (ug/L)	< .5	949	< .5	401	< 1000

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W38

Parameter	02/22/92	07/29/92
2,3,5,6-Tetrachlorophenol (ug/L)	< 10	< 100
2,4,6-Trichlorophenol (ug/L)	19.1	< 100
2,4-Dichlorophenol (ug/L)	35.1	104
2,4-Dimethylphenol (ug/L)	50.7	< 50
2,4-Dinitrophenol (ug/L)	< 10	< 100
2-Chlorophenol (ug/L)	< 5	< 50
2-Nitrophenol (ug/L)	< 5	< 50
4,6-Dinitro-2-methylphenol (ug/L)	< 10	< 100
4-Chloro-3-methylphenol (ug/L)	< 5	< 50
4-Nitrophenol (ug/L)	15.1	< 100
Pentachlorophenol (ug/L)	6510	16400
Phenol (ug/L)	< 5	< 50

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W39 1

Parameter	06/17/92	12/18/92	06/21/94	03/10/95
2,3,4,6-Tetrachlorophenol (ug/L)			2900	< 1000
2,3,5,6-Tetrachlorophenol (ug/L)	360	403		
2,4,5-Trichlorophenol (ug/L)			1000	< 2000
2,4,6-Trichlorophenol (ug/L)	236	267	3500	< 1000
2,4-Dichlorophenol (ug/L)	835	1710	6900	< 1000
2,4-Dimethylphenol (ug/L)	569	50	2700	1500
2,4-Dinitrophenol (ug/L)	< 10.3	100	420	< 2000
2,6-Dichlorophenol (ug/L)			1500	< 1000
2-Chlorophenol (ug/L)	< 25.8	50		
2-Nitrophenol (ug/L)	< 25.8	50	5200	10000
4,6-Dinitro-2-methylphenol (ug/L)	13.3	100	310	< 1000
4-Chloro-3-methylphenol (ug/L)	33.9	50	550	< 1000
4-Nitrophenol (ug/L)	171	178	1300	< 2000
Dinoseb (ug/L)			< 100	< 1000
Pentachlorophenol (ug/L)	9290	13900	6900	3700
Phenol (ug/L)	< 25.8	50		
Phenol/2-Chlorophenol (ug/L)			< 200	11000
m & p-Cresol (ug/L)			8400	3100
o-Cresol (ug/L)			< 100	3600

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W41 1

Parameter	02/25/92	06/16/92	09/17/92	12/19/92	03/24/93	06/30/93	12/28/93	04/25/94	06/21/94
2,3,4,6-Tetrachlorophenol (ug/L)						3600	710	1000	930
2,3,5,6-Tetrachlorophenol (ug/L)	< 20	441	< 1	< 1	< 8000				
2,4,5-Trichlorophenol (ug/L)						< 200	< 200	< 2000	980
2,4,6-Trichlorophenol (ug/L)	< 20	703	< 1	< 1	< 2400	< 100	150	< 1000	820
2,4-Dichlorophenol (ug/L)	119	227	< .5	< .5	< 800	< 100	320	< 1000	430
2,4-Dimethylphenol (ug/L)	< 10	60.9	< .5	< .5	< 800	< 100	260	< 1000	110
2,4-Dinitrophenol (ug/L)	< 20	170	223	< 1	< 2400	< 200	< 200	< 2000	1100
2,6-Dichlorophenol (ug/L)						3600	140	< 1000	210
2-Chlorophenol (ug/L)	< 10	< 5.1	< .5	< .5	< 800				
2-Nitrophenol (ug/L)	85.9	143	< .5	< .5	< 800	< 100	150	< 1000	330
4,6-Dinitro-2-methylphenol (ug/L)	< 20	< 51	< 1	< 1	< 4000	< 100	< 100	< 1000	230
4-Chloro-3-methylphenol (ug/L)	68	44.1	< .5	< .5	< 4000	1600	< 100	< 1000	250
4-Nitrophenol (ug/L)	< 20	< 51	109	< 1	< 4000	< 200	< 200	< 2000	500
Dinoseb (ug/L)						< 100	< 100	< 1000	< 100
Pentachlorophenol (ug/L)	8610	16600	6070	16400	14300	32000	9500	12000	4900
Phenol (ug/L)	< 10	< 5.1	< .5	< .5	< 800				
Phenol/2-Chlorophenol (ug/L)						3600	280	< 2000	< 200
m & p-Cresol (ug/L)						< 200	< 200	< 2000	< 200
o-Cresol (ug/L)						< 100	180	< 1000	< 100

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W41 2

Parameter	10/04/94	03/10/95	07/06/95
2,3,4,6-Tetrachlorophenol (ug/L)	< 500	< 1000	480
2,3,5,6-Tetrachlorophenol (ug/L)			
2,4,5-Trichlorophenol (ug/L)	< 1000	< 2000	< 11
2,4,6-Trichlorophenol (ug/L)	< 500	< 1000	< 11
2,4-Dichlorophenol (ug/L)	< 500	< 1000	< 11
2,4-Dimethylphenol (ug/L)	< 500	< 1000	< 11
2,4-Dinitrophenol (ug/L)	< 1000	< 2000	< 53
2,6-Dichlorophenol (ug/L)	< 500	< 1000	
2-Chlorophenol (ug/L)			< 11
2-Nitrophenol (ug/L)	< 500	< 1000	< 11
4,6-Dinitro-2-methylphenol (ug/L)	< 500	< 1000	< 53
4-Chloro-3-methylphenol (ug/L)	< 500	< 1000	< 21
4-Nitrophenol (ug/L)	< 1000	< 2000	< 53
Dinoseb (ug/L)	< 500	< 1000	< 27
Pentachlorophenol (ug/L)	690	3600	3400
Phenol (ug/L)			< 11
Phenol/2-Chlorophenol (ug/L)	< 1000	< 2000	
m & p-Cresol (ug/L)	< 1000	< 2000	< 21.3
o-Cresol (ug/L)	< 500	< 1000	< 10.65

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W66

Parameter	06/30/93
2,3,4,6-Tetrachlorophenol (ug/L)	230
2,4,5-Trichlorophenol (ug/L)	160
2,4,6-Trichlorophenol (ug/L)	< 10
2,4-Dichlorophenol (ug/L)	< 10
2,4-Dimethylphenol (ug/L)	< 10
2,4-Dinitrophenol (ug/L)	150
2,6-Dichlorophenol (ug/L)	< 10
2-Nitrophenol (ug/L)	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 10
4-Chloro-3-methylphenol (ug/L)	< 10
4-Nitrophenol (ug/L)	< 20
Dinoseb (ug/L)	< 10
Pentachlorophenol (ug/L)	9300
Phenol/2-Chlorophenol (ug/L)	< 20
m & p-Cresol (ug/L)	< 20
o-Cresol (ug/L)	58

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W67

Parameter	06/29/93
2,3,4,6-Tetrachlorophenol (ug/L)	40
2,4,5-Trichlorophenol (ug/L)	< 20
2,4,6-Trichlorophenol (ug/L)	< 10
2,4-Dichlorophenol (ug/L)	< 10
2,4-Dimethylphenol (ug/L)	< 10
2,4-Dinitrophenol (ug/L)	57
2,6-Dichlorophenol (ug/L)	< 10
2-Nitrophenol (ug/L)	< 10
4,6-Dinitro-2-methylphenol (ug/L)	< 10
4-Chloro-3-methylphenol (ug/L)	< 10
4-Nitrophenol (ug/L)	21
Dinoseb (ug/L)	< 10
Pentachlorophenol (ug/L)	5300
Phenol/2-Chlorophenol (ug/L)	< 20
m & p-Cresol (ug/L)	< 20
o-Cresol (ug/L)	< 10

A3

VOLATILES

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W01A

Parameter	02/19/92	06/14/92	09/17/92	12/18/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	1.1
1,1,2-Trichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)					< 1		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					140	430	68	320	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					38	110	21	130	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 10	< 100	< 10					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
2-Hexanone (ug/L)	< 10	< 10	< 100	< 10					
4-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 10	< 100	< 10					
Acetone (ug/L)	< 10	< 10	2230	11.7					
Benzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)					< 1	< 1	< 1	< 1	
Bromochloromethane (ug/L)					< 1		< 1	< 1	
Bromodichloromethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 5	< 5	< 50	< 5	< 1		< 1	< 1	< 1
Bromomethane (ug/L)	< 10	< 10	< 100	< 10	< 2		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 5	< 5	< 50	< 5					
Carbon tetrachloride (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 5	6.19	< 50	< 5	5.2	5.2	4.2	1.4	1.2
Chloromethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 1		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W01A 2

Parameter	02/19/92	06/14/92	09/17/92	12/18/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95
Dichlorodifluoromethane (ug/L)					< 2	< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)					< 1	< 1	< 1	< 1	
Isopropylbenzene (ug/L)					26	25	4.2	27	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 5	< 5	116	14.1	< 3	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 11	< 10	< 10	6	38	4.2	19	3.4
Styrene (ug/L)	< 5	< 5	< 50	< 5	4.4		< 1	< 1	
Tetrachloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	6.3	< 1
Toluene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)					< 1	< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 10	< 10	< 100	< 10					
Vinyl chloride (ug/L)	< 10	< 10	< 100	< 10	< 1	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 5	5.88	< 50	18.3					
cis-1,2-Dichloroethene (ug/L)					< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 5	< 1		< 1	< 1	< 1
m + p-Xylene (ug/L)					< 2	15	2.8	15	< 2
n-Butylbenzene (ug/L)					34	130	28	140	
n-Propylbenzene (ug/L)					7	25	5.2	23	
o-Xylene (ug/L)					8.9	30	6.3	49	1.7
p-Isopropyltoluene (ug/L)					< 1	39	9.7	50	
sec-Butylbenzene (ug/L)					12	24	8.7	32	
tert-Butylbenzene (ug/L)					< 1	< 1	< 1	48	
trans-1,2-Dichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 5	< 1		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	02/20/92	06/14/92	09/17/92	12/18/92	03/24/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,1,2-Trichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,1-Dichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,1-Dichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,1-Dichloropropene (ug/L)					< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					490	850	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 20
1,2-Dichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,2-Dichloropropane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
1,3,5-Trimethylbenzene (ug/L)					120	200	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 20
1,3-Dichloropropane (ug/L)					< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 20
2,2-Dichloropropane (ug/L)					< 1	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 10	< 100	< 10			
2-Chloroethyl vinyl ether (ug/L)							< 200
2-Chlorotoluene (ug/L)					< 1	< 1	
2-Hexanone (ug/L)	< 10	< 10	< 100	< 10			
4-Chlorotoluene (ug/L)					< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 10	< 100	< 10			
Acetone (ug/L)	< 10	< 10	1620	16.8			
Benzene (ug/L)	< 5	< 5	< 50	< 5	2.8	4	< 20
Bromobenzene (ug/L)					< 1	< 1	
Bromochloromethane (ug/L)					< 1	< 1	
Bromodichloromethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
Bromoform (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
Bromomethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 40
Carbon disulfide (ug/L)	< 5	< 5	< 50	< 5			
Carbon tetrachloride (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
Chlorobenzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
Chlorodibromomethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
Chloroethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 40
Chloroform (ug/L)	< 5	6.24	< 50	< 5	3.2	4.3	< 20
Chloromethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 40
Dibromomethane (ug/L)					< 1	< 1	
Dichlorodifluoromethane (ug/L)					< 2	< 2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	02/20/92	06/14/92	09/17/92	12/18/92	03/24/93	06/22/94	07/06/95
Ethylbenzene (ug/L)	28	25.1	< 50	25.2	17	18	< 20
Hexachlorobutadiene (ug/L)					< 1	< 1	
Isopropylbenzene (ug/L)					38	35	
Methylene chloride (ug/L)	< 5	< 5	745	10.4	< 3	< 3	< 60
Naphthalene (ug/L)	130	55.4	84.6	74	140	49	73
Styrene (ug/L)	< 5	< 5	< 50	< 5	16	< 1	
Tetrachloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	7.6	< 20
Toluene (ug/L)	9	5.61	< 50	< 5	3.5	3.8	< 20
Trichloroethene (ug/L)	26	51.1	< 50	27.6	16	10	< 20
Trichlorofluoromethane (ug/L)					< 1	< 1	< 20
Vinyl acetate (ug/L)		< 10	< 100	< 10			
Vinyl chloride (ug/L)	< 10	< 10	< 100	< 10	< 1	< 1	< 20
Xylenes, Total (ug/L)	< 5	181	257	292			
cis-1,2-Dichloroethene (ug/L)					< 1	< 1	< 20
cis-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
m + p-Xylene (ug/L)					83	52	< 40
n-Butylbenzene (ug/L)					85	140	
n-Propylbenzene (ug/L)					43	49	
o-Xylene (ug/L)					170	200	97
p-Isopropyltoluene (ug/L)					< 1	< 1	
sec-Butylbenzene (ug/L)					36	43	
tert-Butylbenzene (ug/L)					< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20
trans-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03A

Parameter	02/25/92	06/17/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 100		< 10	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	3.2
1,1,2-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
1,1-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
1,1-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
1,1-Dichloropropene (ug/L)					< 100		< 10	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 100	< 10	< 10	< 1	
1,2,3-Trichloropropane (ug/L)					< 100		< 10	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 100	< 10	< 10	< 1	
1,2,4-Trimethylbenzene (ug/L)					32000	2700	3800	5800	
1,2-Dibromo-3-chloropropane (ug/L)					< 300	< 30	< 30	< 3	
1,2-Dibromoethane (ug/L)					< 200	< 20	< 20	< 2	
1,2-Dichlorobenzene (ug/L)					< 100	< 10	< 10	< 1	< 1
1,2-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
1,2-Dichloropropane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					63000	1000	4900	1400	
1,3-Dichlorobenzene (ug/L)					< 100	< 10	< 10	< 1	< 1
1,3-Dichloropropane (ug/L)					< 100	< 10	< 10	< 1	
1,4-Dichlorobenzene (ug/L)					< 100	< 10	< 10	< 1	< 1
2,2-Dichloropropane (ug/L)					< 100	< 10	< 10	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 100	< 100	< 10					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 100	< 10	< 10	< 1	
2-Hexanone (ug/L)	< 10	< 100	< 100	< 10					
4-Chlorotoluene (ug/L)					< 100	< 10	< 10	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100	< 100	< 10					
Acetone (ug/L)	12	< 100	1780	11.6					
Benzene (ug/L)	15.9	< 50	< 50	< 5	< 100	18	20	< 1	< 1
Bromobenzene (ug/L)					< 100	< 10	< 10	< 1	
Bromochloromethane (ug/L)					< 100		< 10	< 1	
Bromodichloromethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
Bromoform (ug/L)	< 5	< 50	< 50	< 5	< 100		< 10	< 1	< 1
Bromomethane (ug/L)	< 10	< 100	< 100	< 10	< 200		< 20	< 2	< 2
Carbon disulfide (ug/L)	< 5	< 50	< 50	< 5					
Carbon tetrachloride (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
Chlorobenzene (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	11
Chlorodibromomethane (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
Chloroethane (ug/L)	< 10	< 100	< 100	< 10	< 200	< 20	< 20	< 2	< 2
Chloroform (ug/L)	7.92	< 50	< 50	7.27	< 100	< 10	< 10	< 1	< 1
Chloromethane (ug/L)	< 10	< 100	< 100	< 10	< 200	< 20	< 20	< 2	< 2
Di-isopropyl ether (ug/L)						< 10			
Dibromomethane (ug/L)					< 100		< 10	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03A

Parameter	02/25/92	06/17/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)					< 200	< 20	< 20	< 2	
Ethylbenzene (ug/L)	63.9	< 50	< 50	76.8	450	38	52	920	88
Hexachlorobutadiene (ug/L)					< 100	< 10	< 10	< 1	
Isopropylbenzene (ug/L)					21000	81	140	1400	
Methyl tert-butyl ether (ug/L)						< 10			
Methylene chloride (ug/L)	< 5	< 50	848	10.9	< 300	< 30	< 30	< 3	< 3
Naphthalene (ug/L)	212	105	126	498	800	150	200	800	70
Styrene (ug/L)	< 5	< 50	< 50	< 5	1400		< 10	< 1000	
Tetrachloroethene (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	31	7.4	8.9
Toluene (ug/L)	33.8	< 50	< 50	22.6	< 100	22	33	< 1	48
Trichloroethene (ug/L)	36.7	< 50	< 50	58.2	< 100	18	37	28	34
Trichlorofluoromethane (ug/L)					< 100	< 10	< 10	< 1	< 1
Vinyl acetate (ug/L)	< 10	< 100	< 100	< 10					
Vinyl chloride (ug/L)	< 10	< 100	< 100	< 10	< 100	< 10	< 10	< 1	< 1
Xylenes, Total (ug/L)	1180	549	635	920					
cis-1,2-Dichloroethene (ug/L)					< 100	< 10	< 10	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 100		< 10	< 1	< 1
m + p-Xylene (ug/L)					790	300	390	1200	91
n-Butylbenzene (ug/L)					26000	240	1600	2200	
n-Propylbenzene (ug/L)					460	120	210	1600	
o-Xylene (ug/L)					3200	410	2800	2100	53
p-Isopropyltoluene (ug/L)					< 100	< 10	180	< 1000	
sec-Butylbenzene (ug/L)					1300	56	88	1600	
tert-Butylbenzene (ug/L)					< 100	< 10	170	< 1000	
trans-1,2-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 100	< 10	< 10	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 100		< 10	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03B 1

Parameter	06/17/91	02/22/92	09/17/92	12/18/92	03/23/93	06/29/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)					< 1		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					< 1	5	3.8	8.2	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					< 1	2.4	1.8	3.3	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10	< 100	< 10					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10	< 100	< 10					
4-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10	< 100	< 10					
Acetone (ug/L)	< 100	12.3	1040	< 10					
Benzene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)					< 1	< 1	< 1	< 1	
Bromochloromethane (ug/L)					< 1		< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5	< 50	< 5	< 1		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10	< 100	< 10	< 2		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5	< 50	< 5					
Carbon tetrachloride (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 100	< 10	< 2	< 10	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 100	< 10	< 2	< 20	< 2	< 2	< 2
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 1		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03B

Parameter	06/17/91	02/22/92	09/17/92	12/18/92	03/23/93	06/29/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)					< 2	< 40	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)					< 1	< 1	< 1	< 1	
Isopropylbenzene (ug/L)					< 1	< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 50	< 5	534	< 10	< 3	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	91.6	< 10	< 1	1.5	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5	< 50	< 5	< 1		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	1.3
Toluene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	< 50	< 5	< 1	8.9	< 1	2.2	1.8
Trichlorofluoromethane (ug/L)					< 1	< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10	< 100	< 10					
Vinyl chloride (ug/L)	< 100	< 10	< 100	< 10	< 1	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5	< 50	< 5					
cis-1,2-Dichloroethene (ug/L)					< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5	< 50	< 5	< 1		< 1	< 1	< 1
m + p-Xylene (ug/L)					< 2	< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)					< 1	< 1	1.6	3	
n-Propylbenzene (ug/L)					< 1	< 1	< 1	< 1	
o-Xylene (ug/L)					< 1	6.4	< 1	1.9	< 1
p-Isopropyltoluene (ug/L)					< 1	< 1	< 1	< 1	
sec-Butylbenzene (ug/L)					< 1	1.6	< 1	< 1	
tert-Butylbenzene (ug/L)					< 1	< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5	< 50	< 5	< 1		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W06 1

Parameter	02/20/92	09/17/92
1,1,1-Trichloroethane (ug/L)	< 5	< 50
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50
1,1,2-Trichloroethane (ug/L)	< 5	< 50
1,1-Dichloroethane (ug/L)	< 5	< 50
1,1-Dichloroethene (ug/L)	< 5	< 50
1,2-Dichloroethane (ug/L)	< 5	< 50
1,2-Dichloropropane (ug/L)	< 5	< 50
2-Butanone (MEK) (ug/L)	< 10	< 100
2-Hexanone (ug/L)	< 10	< 100
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100
Acetone (ug/L)	< 10	1300
Benzene (ug/L)	< 5	< 50
Bromodichloromethane (ug/L)	< 5	< 50
Bromoform (ug/L)	< 5	< 50
Bromomethane (ug/L)	< 10	< 100
Carbon disulfide (ug/L)	< 5	< 50
Carbon tetrachloride (ug/L)	< 5	< 50
Chlorobenzene (ug/L)	< 5	< 50
Chlorodibromomethane (ug/L)	< 5	< 50
Chloroethane (ug/L)	< 10	< 100
Chloroform (ug/L)	< 5	< 50
Chloromethane (ug/L)	< 10	< 100
Ethylbenzene (ug/L)	13	< 50
Methylene chloride (ug/L)	< 5	1230
Naphthalene (ug/L)	46	11.3
Styrene (ug/L)	< 5	< 50
Tetrachloroethene (ug/L)	< 5	< 50
Toluene (ug/L)	< 5	< 50
Trichloroethene (ug/L)	< 5	< 50
Vinyl acetate (ug/L)	< 10	< 100
Vinyl chloride (ug/L)	< 10	< 100
Xylenes, Total (ug/L)	< 5	< 50
cis-1,3-Dichloropropene (ug/L)	< 5	< 50
trans-1,2-Dichloroethene (ug/L)	< 5	< 50
trans-1,3-Dichloropropene (ug/L)	< 5	< 50

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W06R

Parameter	12/28/93
1,1,1,2-Tetrachloroethane (ug/L)	< 10
1,1,1-Trichloroethane (ug/L)	< 10
1,1,2,2-Tetrachloroethane (ug/L)	< 10
1,1,2-Trichloroethane (ug/L)	< 10
1,1-Dichloroethane (ug/L)	< 10
1,1-Dichloroethene (ug/L)	< 10
1,1-Dichloropropene (ug/L)	< 10
1,2,3-Trichlorobenzene (ug/L)	< 10
1,2,3-Trichloropropane (ug/L)	< 10
1,2,4-Trichlorobenzene (ug/L)	< 10
1,2,4-Trimethylbenzene (ug/L)	4400
1,2-Dibromo-3-chloropropane (ug/L)	< 30
1,2-Dibromoethane (ug/L)	< 20
1,2-Dichlorobenzene (ug/L)	< 10
1,2-Dichloroethane (ug/L)	< 10
1,2-Dichloropropane (ug/L)	< 10
1,3,5-Trimethylbenzene (ug/L)	2900
1,3-Dichlorobenzene (ug/L)	< 10
1,3-Dichloropropane (ug/L)	< 10
1,4-Dichlorobenzene (ug/L)	< 10
2,2-Dichloropropane (ug/L)	< 10
2-Chlorotoluene (ug/L)	< 10
4-Chlorotoluene (ug/L)	< 10
Benzene (ug/L)	< 10
Bromobenzene (ug/L)	< 10
Bromochloromethane (ug/L)	< 10
Bromodichloromethane (ug/L)	< 10
Bromoform (ug/L)	< 10
Bromomethane (ug/L)	< 20
Carbon tetrachloride (ug/L)	< 10
Chlorobenzene (ug/L)	< 10
Chlorodibromomethane (ug/L)	< 10
Chloroethane (ug/L)	< 20
Chloroform (ug/L)	< 10
Chloromethane (ug/L)	< 20
Dibromomethane (ug/L)	< 10
Dichlorodifluoromethane (ug/L)	< 20
Ethylbenzene (ug/L)	64
Hexachlorobutadiene (ug/L)	< 10
Isopropylbenzene (ug/L)	200
Methylene chloride (ug/L)	< 30
Naphthalene (ug/L)	150
Styrene (ug/L)	< 10

Parameter	12/28/93
Tetrachloroethene (ug/L)	< 10
Toluene (ug/L)	15
Trichloroethene (ug/L)	< 10
Trichlorofluoromethane (ug/L)	< 10
Vinyl chloride (ug/L)	< 10
cis-1,2-Dichloroethene (ug/L)	< 10
cis-1,3-Dichloropropene (ug/L)	< 10
m + p-Xylene (ug/L)	180
n-Butylbenzene (ug/L)	2400
n-Propylbenzene (ug/L)	380
o-Xylene (ug/L)	490
p-Isopropyltoluene (ug/L)	200
sec-Butylbenzene (ug/L)	190
tert-Butylbenzene (ug/L)	260
trans-1,2-Dichloroethene (ug/L)	< 10
trans-1,3-Dichloropropene (ug/L)	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 1

Parameter	02/20/92	06/14/92	09/17/92	12/19/92	03/23/93	06/28/93	12/27/93	06/21/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)					< 1		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					< 1	< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 10	< 100	< 10					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
2-Hexanone (ug/L)	< 10	< 10	< 100	< 10					
4-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)		< 10	< 100	< 10					
Acetone (ug/L)	< 10	< 10	1980	< 10					
Benzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)					< 1	< 1	< 1	< 1	
Bromochloromethane (ug/L)					< 1		< 1	< 1	
Bromodichloromethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 5	< 5	< 50	< 5	< 1		< 1	< 1	< 1
Bromomethane (ug/L)	< 10	< 10	< 100	< 10	< 2		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 5	< 5	< 50	< 5					
Carbon tetrachloride (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Chloroform (ug/L)	14	8.76	< 50	< 5	1.8	1.6	< 1	1.3	< 1
Chloromethane (ug/L)	< 10	< 10	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 1		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 2

Parameter	02/20/92	06/14/92	09/17/92	12/19/92	03/23/93	06/28/93	12/27/93	06/21/94	07/06/95
Dichlorodifluoromethane (ug/L)					< 2	< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)					< 1	< 1	< 1	< 1	
Isopropylbenzene (ug/L)					< 1	< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 5	< 5	1210	< 10	< 3	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 11	< 10	< 10	< 1	< 1	< 1	< 1	< 1
Styrene (ug/L)		6.24	< 50	< 5	< 1		< 1	< 1	
Tetrachloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)					< 1	< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)		< 10	< 100	< 10					
Vinyl chloride (ug/L)	< 10	< 10	< 100	< 10	< 1	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)		< 5	< 50	< 5					
cis-1,2-Dichloroethene (ug/L)					< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 5	< 1		< 1	< 1	< 1
m + p-Xylene (ug/L)					< 2	< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)					< 1	< 1	< 1	< 1	
n-Propylbenzene (ug/L)					< 1	< 1	< 1	< 1	
o-Xylene (ug/L)					< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)					< 1	< 1	< 1	< 1	
sec-Butylbenzene (ug/L)					< 1	< 1	< 1	< 1	
tert-Butylbenzene (ug/L)					< 1	< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 5	< 5	< 50	< 5	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 5	< 1		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W09 1

Parameter	06/18/92	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	1.3	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	2.2	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/92	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	3.1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			2.5	5.7	5.6	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)			< 1	< 1	2.2	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	1.3
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			2.9	1.6	1.8	
n-Propylbenzene (ug/L)			1.7	< 1	3.2	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			2	9.4	7.7	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10A

Parameter	07/08/92	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	11
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			500	900	700	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,3,5-Trimethylbenzene (ug/L)			170	140	60	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 100
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	122	< 10				
Benzene (ug/L)	< 50	< 5	3.3	5.2	5	< 10
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	41
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 10
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 20
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 20
Chloroform (ug/L)	< 50	< 5	1.4	< 1	1.7	< 10
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 20
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	07/08/92	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< .006	35.2	20	38	33	40
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			23	41	39	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	1370	< 10	< 3	< 3	< 3	< 30
Naphthalene (ug/L)	20.9	62.6	70	100	12	110
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	3.6	2.8	< 10
Toluene (ug/L)	< 50	11.3	8.9	12	10	57
Trichloroethene (ug/L)	< 50	31.5	22	30	25	20
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 10
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 10
Xylenes, Total (ug/L)		252				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 10
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 10
m + p-Xylene (ug/L)			65	61	16	300
n-Butylbenzene (ug/L)			110	58	85	
n-Propylbenzene (ug/L)			38	57	< 1	
o-Xylene (ug/L)			180	200	210	350
p-Isopropyltoluene (ug/L)			< 1	< 1	3.4	
sec-Butylbenzene (ug/L)			14	24	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	250	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10B

Parameter	07/08/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	1.8	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10B 2

Parameter	07/08/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	694	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	< 1	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/92	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	17	15
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/92	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	< 1	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	1.4
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	1.3
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)		< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W12 1

Parameter	06/18/92	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/18/92	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	< 1	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	22.4	7.6	8.1	4.2	5.3
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W13 1

Parameter	06/22/92	12/19/92	06/30/93	12/27/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			3.2	< 1	1.4	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			1.8	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/22/92	12/19/92	06/30/93	12/27/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	1.4	6.6	4.4	1.2
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	1.5	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	10.6	2.3	4.9	3.4	4.6
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			2.6	< 1	< 1	
n-Propylbenzene (ug/L)			1.7	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	1.5	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14 1

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 100
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	13.3				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	30
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 10
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 10
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 20
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 20
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W14 2

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	33
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 30
Naphthalene (ug/L)			< 1	< 1	< 1	110
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	2	1.8	1.4	< 10
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Trichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	41
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 10
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 10
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 10
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 10
m + p-Xylene (ug/L)			< 2	< 2	< 2	120
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	200
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 1

Parameter	06/16/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	18.3				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	2.1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W18 1

Parameter	02/25/92	07/08/92	09/17/92	12/17/92	03/23/93	06/29/93	12/28/93	06/22/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	1.3
1,1,2-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)					< 1		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					600	330	600	480	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					3.4	28	11	10	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 100	< 100	< 10					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
2-Hexanone (ug/L)	< 10	< 100	< 100	< 10					
4-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100	< 100	< 10					
Acetone (ug/L)	< 10	< 100	1950	25					
Benzene (ug/L)	< 5	< 50	< 50	< 5	2.1	1.7	3.2	2.3	< 1
Bromobenzene (ug/L)					< 1	< 1	< 1	< 1	
Bromochloromethane (ug/L)					< 1		< 1	< 1	
Bromodichloromethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	< 1
Bromomethane (ug/L)	< 10	< 100	< 100	< 10	< 2		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 5	< 50	< 50	< 5					
Carbon tetrachloride (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 10	< 100	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 10	< 100	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 1		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W18 2

Parameter	02/25/92	07/08/92	09/17/92	12/17/92	03/23/93	06/29/93	12/28/93	06/22/94	07/05/95
Dichlorodifluoromethane (ug/L)					< 2	< 5	< 2	< 2	
Ethylbenzene (ug/L)	28	< 50	< 50	29.8	21	18	34	20	8.3
Hexachlorobutadiene (ug/L)					< 1	< 1	< 1	< 1	
Isopropylbenzene (ug/L)					36	19	33	28	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 5	742	644	< 10	< 3	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	74	44	46.3	59.3	100	70	90	18	75
Styrene (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	
Tetrachloroethene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	2.5	2.2	< 1
Toluene (ug/L)	7	< 50	< 50	6.47	< 1	4.1	3.3	1.3	1.2
Trichloroethene (ug/L)	6.36	< 50	< 50	< 5	6.3	4.3	7.4	4.4	2.8
Trichlorofluoromethane (ug/L)					< 1	< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 10	< 100	< 100	< 10					
Vinyl chloride (ug/L)	< 10	< 100	< 100	< 10	< 1	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	230	123	122	195					
cis-1,2-Dichloroethene (ug/L)					< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	< 1
m + p-Xylene (ug/L)					19	34	39	32	12
n-Butylbenzene (ug/L)					100	40	45	41	
n-Propylbenzene (ug/L)					33	30	54	40	
o-Xylene (ug/L)					160	120	170	16	29
p-Isopropyltoluene (ug/L)					< 1	5.7	< 1	1.8	
sec-Butylbenzene (ug/L)					28	14	21	21	
tert-Butylbenzene (ug/L)					< 1	< 1	< 1	180	
trans-1,2-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W19 1

Parameter	06/24/92	12/18/92	06/30/93	12/28/93	06/21/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			500	520	1200	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 20
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
1,3,5-Trimethylbenzene (ug/L)			200	200	420	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 20
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 20
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	21.8				
2-Chloroethyl vinyl ether (ug/L)						< 200
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	18.6				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	40
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	1.4	< 1	< 1	30
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 20
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 40
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 40
Chloroform (ug/L)	< 50	10.6	50	41	55	< 20
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 40
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W19 2

Parameter	06/24/92	12/18/92	06/30/93	12/28/93	06/21/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	6.07	4.9	8.5	21	77
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			41	22	90	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3.9	< 60
Naphthalene (ug/L)	21.2	21.9	28	31	60	140
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
Toluene (ug/L)	< 50	< 5	2	4.3	7.7	110
Trichloroethene (ug/L)	80.8	34.8	8.6	9.4	10	66
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 20
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 20
Xylenes, Total (ug/L)	151	120				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 20
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 20
m + p-Xylene (ug/L)			42	70	140	520
n-Butylbenzene (ug/L)			95	65	210	
n-Propylbenzene (ug/L)			23	38	140	
o-Xylene (ug/L)			90	100	300	560
p-Isopropyltoluene (ug/L)			< 1	22	75	
sec-Butylbenzene (ug/L)			19	17	72	
tert-Butylbenzene (ug/L)			< 1	21	90	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 20
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	22.3				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W21 2

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)			< 1	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W22 1

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 10		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,1,2-Trichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,1-Dichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,1-Dichloroethene (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,1-Dichloropropene (ug/L)					< 10		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 10	< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 10		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 10	< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					1500	3.8	1500	1000	
1,2-Dibromo-3-chloropropane (ug/L)					< 30	< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 20	< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 10	< 1	< 1	< 1	< 20
1,2-Dichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,2-Dichloropropane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
1,3,5-Trimethylbenzene (ug/L)					310	2.9	360	220	
1,3-Dichlorobenzene (ug/L)					< 10	< 1	< 1	< 1	< 20
1,3-Dichloropropane (ug/L)					< 10	< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 10	< 1	< 1	< 1	< 20
2,2-Dichloropropane (ug/L)					< 10	< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 10	< 100	< 100					
2-Chloroethyl vinyl ether (ug/L)									< 200
2-Chlorotoluene (ug/L)					< 10	< 1	< 1	< 1	
2-Hexanone (ug/L)	< 10	< 10	< 100	< 100					
4-Chlorotoluene (ug/L)					< 10	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 10	< 100	< 100					
Acetone (ug/L)	< 10	11.1	2120	< 100					
Benzene (ug/L)	31.8	26.1	< 50	< 50	42	< 1	34	21	< 20
Bromobenzene (ug/L)					< 10	< 1	< 1	< 1	
Bromochloromethane (ug/L)					< 10		< 1	< 1	
Bromodichloromethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
Bromoform (ug/L)	< 5	< 5	< 50	< 50	< 10		< 1	< 1	< 20
Bromomethane (ug/L)	< 10	< 10	< 100	< 100	< 20		< 2	< 2	< 40
Carbon disulfide (ug/L)	< 5	< 5	< 50	< 50					
Carbon tetrachloride (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
Chlorobenzene (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
Chlorodibromomethane (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
Chloroethane (ug/L)	< 10	< 10	< 100	< 100	< 20	< 2	< 2	< 2	< 40
Chloroform (ug/L)	7.14	6.55	< 50	< 50	< 10	< 1	2.6	< 1	< 20
Chloromethane (ug/L)	< 10	< 10	< 100	< 100	< 20	< 2	< 2	< 2	< 40
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 10		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W22 2

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)					< 20	< 2	< 2	< 2	
Ethylbenzene (ug/L)	111	91.6	< 50	86.7	110	< 1	77	60	28
Hexachlorobutadiene (ug/L)					< 10	< 1	< 1	< 1	
Isopropylbenzene (ug/L)					100	3.3	63	50	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 5	< 5	946	142	< 30	< 3	< 3	< 3	< 60
Naphthalene (ug/L)	207	122	< 10	108	260	< 1	140	110	130
Styrene (ug/L)	< 5	< 5	< 50	< 50	< 10		< 1	< 25	
Tetrachloroethene (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	3.9	4	< 20
Toluene (ug/L)	111	100	< 50	114	140	< 1	90	55	< 20
Trichloroethene (ug/L)	71.8	72	< 50	92	85	< 1	71	28	< 20
Trichlorofluoromethane (ug/L)					< 10	< 1	< 1	< 1	< 20
Vinyl acetate (ug/L)	< 10	< 10	< 100	< 100					
Vinyl chloride (ug/L)	< 10	< 10	< 100	< 100	< 10	< 1	< 1	< 1	< 20
Xylenes, Total (ug/L)	713	472	< 50	871					
cis-1,2-Dichloroethene (ug/L)					< 10	< 1	1.4	< 1	< 20
cis-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 50	< 10		< 1	< 1	< 20
m + p-Xylene (ug/L)					700	< 2	440	350	110
n-Butylbenzene (ug/L)					210	2.1	73	100	
n-Propylbenzene (ug/L)					120	1.6	120	120	
o-Xylene (ug/L)					640	2.3	590	400	260
p-Isopropyltoluene (ug/L)					< 10	< 1	28	58	
sec-Butylbenzene (ug/L)					43	< 1	29	58	
tert-Butylbenzene (ug/L)					< 10	< 1	< 1	350	
trans-1,2-Dichloroethene (ug/L)	< 5	< 5	< 50	< 50	< 10	< 1	< 1	< 1	< 20
trans-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 50	< 10		< 1	< 1	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 2

Parameter	06/16/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)			< 1	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	1.3	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W25 1

Parameter	02/19/92	07/29/92	09/17/92	12/17/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)					< 1		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					8.8	5.2	5.2	47	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					2.6	3.7	< 1	12	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)					< 1	< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 100	< 100	< 10					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
2-Hexanone (ug/L)	< 10	< 100	< 100	< 10					
4-Chlorotoluene (ug/L)					< 1	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100	< 100	< 10					
Acetone (ug/L)	< 10	< 100	108	13.1					
Benzene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)					< 1	< 1	< 1	< 1	
Bromochloromethane (ug/L)					< 1		< 1	< 1	
Bromodichloromethane (ug/L)	< 5	< 50	< 50	< 5	5.4	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	< 1
Bromomethane (ug/L)	< 10	< 100	< 100	< 10	< 2		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 5	< 50	< 50	< 5					
Carbon tetrachloride (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 10	< 100	< 100	< 10	< 2	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 5	< 50	< 50	< 5	2.3	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 10	< 100	< 100	< 10	< 2	< 2	< 2	< 2	< 10
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 1		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W25 2

Parameter	02/19/92	07/29/92	09/17/92	12/17/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95
Dichlorodifluoromethane (ug/L)					< 2	< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	3.4	2.1
Hexachlorobutadiene (ug/L)					< 1	< 1	< 1	< 1	
Isopropylbenzene (ug/L)					4.2	6.3	< 1	16	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 5	< 50	128	< 10	< 3	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	28	< 10	< 10	< 10	3.2	< 1	< 1	19	30
Styrene (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	
Tetrachloroethene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	1.1	1.2
Trichloroethene (ug/L)	221	< 50	< 50	41.3	380	11	130	95	51
Trichlorofluoromethane (ug/L)					< 1	< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 10	< 100	< 100	< 10					
Vinyl chloride (ug/L)	< 10	< 100	< 100	< 10	< 1	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	62	< 50	< 50	< 5					
cis-1,2-Dichloroethene (ug/L)					44	< 1	17	3	< 1
cis-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	< 1
m + p-Xylene (ug/L)					< 2	< 2	< 2	16	8.4
n-Butylbenzene (ug/L)					6.8	3.8	2	6	
n-Propylbenzene (ug/L)					< 1	2.1	< 1	11	
o-Xylene (ug/L)					3.1	2.4	1.6	100	29
p-Isopropyltoluene (ug/L)					< 1	< 1	< 1	< 1	
sec-Butylbenzene (ug/L)					1.9	2.6	< 1	9.3	
tert-Butylbenzene (ug/L)					< 1	< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 1		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W26 1

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/27/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 5	< 1	
1,1,1-Trichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	1.5
1,1,2-Trichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
1,1-Dichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
1,1-Dichloroethene (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
1,1-Dichloropropene (ug/L)					< 1		< 5	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 1	< 5	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 5	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 1	< 5	< 1	
1,2,4-Trimethylbenzene (ug/L)					960	550	600	500	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 3	< 15	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 2	< 10	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 1	< 5	< 1	< 1
1,2-Dichloroethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
1,2-Dichloropropane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)					340	160	80	88	
1,3-Dichlorobenzene (ug/L)					< 1	< 1	< 5	< 1	< 1
1,3-Dichloropropane (ug/L)					< 1	< 1	< 5	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 1	< 5	< 1	< 1
2,2-Dichloropropane (ug/L)					< 1	< 1	< 5	< 1	
2-Butanone (MEK) (ug/L)	< 10	< 10	< 100	< 100					
2-Chloroethyl vinyl ether (ug/L)									< 10
2-Chlorotoluene (ug/L)					< 1	< 1	< 5	< 1	
2-Hexanone (ug/L)	< 10	< 10	< 100	< 100					
4-Chlorotoluene (ug/L)					< 1	< 1	< 5	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 10	< 100	< 100					
Acetone (ug/L)	< 10	10.5	< 100	< 100					
Benzene (ug/L)	20	27.5	< 50	< 50	24	18	25	13	34
Bromobenzene (ug/L)					< 1	< 1	< 5	< 1	
Bromochloromethane (ug/L)					< 1		< 5	< 1	
Bromodichloromethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
Bromoform (ug/L)	< 5	< 5	< 50	< 50	< 1		< 5	< 1	< 1
Bromomethane (ug/L)	< 10	< 10	< 100	< 100	< 2		< 10	< 2	< 2
Carbon disulfide (ug/L)	< 5	< 5	< 50	< 50					
Carbon tetrachloride (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
Chlorobenzene (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	1.1
Chlorodibromomethane (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
Chloroethane (ug/L)	< 10	< 10	< 100	< 100	< 2	< 2	< 10	< 2	< 2
Chloroform (ug/L)	18.1	12.7	< 50	< 50	7.2	4.4	< 5	2.6	< 1
Chloromethane (ug/L)	< 10	< 10	< 100	< 100	< 2	< 2	< 10	< 2	7.9
Di-isopropyl ether (ug/L)						< 1			
Dibromomethane (ug/L)					< 1		< 5	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W26 2

Parameter	02/25/92	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/27/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)					< 2	< 2	< 10	< 2	
Ethylbenzene (ug/L)	30.7	79.3	54.5	< 50	49	31	42	27	58
Hexachlorobutadiene (ug/L)					< 1	< 1	< 5	< 1	
Isopropylbenzene (ug/L)					58	26	32	22	
Methyl tert-butyl ether (ug/L)						< 1			
Methylene chloride (ug/L)	< 5	< 5	82.7	103	< 3	< 3	< 15	< 3	< 3
Naphthalene (ug/L)	150	38.5	84.9	55.2	150	70	75	80	89
Styrene (ug/L)	< 5	< 5	< 50	< 50	< 1		< 5	< 25	
Tetrachloroethene (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	1.5	1.4
Toluene (ug/L)	46.9	102	107	77.5	85	45	65	42	87
Trichloroethene (ug/L)	48.5	72.7	56.8	63.3	60	35	38	20	26
Trichlorofluoromethane (ug/L)					< 1	< 1	< 5	< 1	< 1
Vinyl acetate (ug/L)	< 10	< 10	< 100	< 100					
Vinyl chloride (ug/L)	< 10	< 10	< 100	< 100	< 1	< 1	< 5	< 1	< 1
Xylenes, Total (ug/L)	298	569	993	523					
cis-1,2-Dichloroethene (ug/L)					< 1	< 1	< 5	< 1	2.2
cis-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 50	< 1		< 5	< 1	< 1
m + p-Xylene (ug/L)					280	190	220	170	49
n-Butylbenzene (ug/L)					190	65	21	26	
n-Propylbenzene (ug/L)					58	46	55	39	
o-Xylene (ug/L)					460	260	300	220	83
p-Isopropyltoluene (ug/L)					< 1	21	12	< 1	
sec-Butylbenzene (ug/L)					27	12	15	13	
tert-Butylbenzene (ug/L)					< 1	< 1	< 5	< 25	
trans-1,2-Dichloroethene (ug/L)	< 5	< 5	< 50	< 50	< 1	< 1	< 5	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 5	< 5	< 50	< 50	< 1		< 5	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/24/92	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			190	1100	540	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
1,3,5-Trimethylbenzene (ug/L)			95	230	130	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 10
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 100
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	20.1				
Benzene (ug/L)	< 50	12.9	2.4	11	7.5	39
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	31
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 10
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 20
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 20
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
Chloromethane (ug/L)	< 100	35.1	< 10	< 2	< 2	48
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W27 2

Parameter	06/24/92	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95
Dichlorodifluoromethane (ug/L)			< 25	< 2	< 2	
Ethylbenzene (ug/L)	< 50	35.4	4.8	40	32	71
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			6.4	36	31	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	11	< 3	< 3	< 3	< 30
Naphthalene (ug/L)	67.3	89.8	42	120	10	150
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	3.2	2.8	< 10
Toluene (ug/L)	< 50	63.9	8.9	71	36	100
Trichloroethene (ug/L)	< 50	20.8	4.4	17	12	61
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 10
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 10
Xylenes, Total (ug/L)	304	620				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 10
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 10
m + p-Xylene (ug/L)			36	300	240	480
n-Butylbenzene (ug/L)			34	86	77	
n-Propylbenzene (ug/L)			8.8	63	46	
o-Xylene (ug/L)			200	380	300	510
p-Isopropyltoluene (ug/L)			< 1	17	< 1	
sec-Butylbenzene (ug/L)			5.2	17	18	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 10
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	07/08/92	12/17/92	06/29/93	12/28/93	06/22/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	7	15	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	1.4	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	07/08/92	12/17/92	06/29/93	12/28/93	06/22/94	07/05/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	786	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	< 1	2.5	4.2	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	1.3
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	11.4	7	5.5	4.5	6.5
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	1.6	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29 1

Parameter	06/25/92	12/18/92	06/30/93	12/28/93	06/22/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	10	4.8	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	13.6				
Benzene (ug/L)	< 50	< 5	< 1	1.5	< 1	2.3
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29 2

Parameter	06/25/92	12/18/92	06/30/93	12/28/93	06/22/94	07/05/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	1.2
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	1.7	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)	< 10	< 10	< 1	1.6	< 1	2.3
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	13.5	3.4	10	3.1	20
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	1.4	< 1	
n-Propylbenzene (ug/L)			< 1	1.7	< 1	
o-Xylene (ug/L)			< 1	3.7	< 1	6.5
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/24/92	12/19/92	06/29/93	12/28/93	06/22/94	07/05/95
1,1,1,2-Tetrachloroethane (ug/L)				< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,1-Dichloropropene (ug/L)				< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,3-Trichloropropane (ug/L)				< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)			< 1	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,2-Dibromo-3-chloropropane (ug/L)			< 3	< 3	< 3	
1,2-Dibromoethane (ug/L)			< 2	< 2	< 2	
1,2-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,2-Dichloroethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,2-Dichloropropane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene (ug/L)			< 1	< 1	< 1	
1,3-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
1,3-Dichloropropane (ug/L)			< 1	< 1	< 1	
1,4-Dichlorobenzene (ug/L)			< 1	< 1	< 1	< 1
2,2-Dichloropropane (ug/L)			< 1	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 10				
2-Chloroethyl vinyl ether (ug/L)						< 10
2-Chlorotoluene (ug/L)			< 1	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 10				
4-Chlorotoluene (ug/L)			< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 10				
Acetone (ug/L)	< 100	< 10				
Benzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromobenzene (ug/L)			< 1	< 1	< 1	
Bromochloromethane (ug/L)				< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Bromoform (ug/L)	< 50	< 5		< 1	< 1	< 1
Bromomethane (ug/L)	< 100	< 10		< 2	< 2	< 2
Carbon disulfide (ug/L)	< 50	< 5				
Carbon tetrachloride (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorobenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chlorodibromomethane (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloroethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Chloroform (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Chloromethane (ug/L)	< 100	< 10	< 2	< 2	< 2	< 2
Di-isopropyl ether (ug/L)			< 1			
Dibromomethane (ug/L)				< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/24/92	12/19/92	06/29/93	12/28/93	06/22/94	07/05/95
Dichlorodifluoromethane (ug/L)			< 2	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Hexachlorobutadiene (ug/L)			< 1	< 1	< 1	
Isopropylbenzene (ug/L)			< 1	< 1	< 1	
Methyl tert-butyl ether (ug/L)			< 1			
Methylene chloride (ug/L)	< 50	< 10	< 3	< 3	< 3	< 3
Naphthalene (ug/L)			< 1	< 1	< 1	< 1
Styrene (ug/L)	< 50	< 5		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Toluene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
Trichlorofluoromethane (ug/L)			< 1	< 1	< 1	< 1
Vinyl acetate (ug/L)	< 100	< 10				
Vinyl chloride (ug/L)	< 100	< 10	< 1	< 1	< 1	< 1
Xylenes, Total (ug/L)	< 50	< 5				
cis-1,2-Dichloroethene (ug/L)			< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1
m + p-Xylene (ug/L)			< 2	< 2	< 2	< 2
n-Butylbenzene (ug/L)			< 1	< 1	< 1	
n-Propylbenzene (ug/L)			< 1	< 1	< 1	
o-Xylene (ug/L)			< 1	< 1	< 1	< 1
p-Isopropyltoluene (ug/L)			< 1	< 1	< 1	
sec-Butylbenzene (ug/L)			< 1	< 1	< 1	
tert-Butylbenzene (ug/L)			< 1	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 5	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 5		< 1	< 1	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W33

Parameter	06/30/93
1,1,1-Trichloroethane (ug/L)	< 20
1,1,2,2-Tetrachloroethane (ug/L)	< 20
1,1,2-Trichloroethane (ug/L)	< 20
1,1-Dichloroethane (ug/L)	< 20
1,1-Dichloroethene (ug/L)	< 20
1,2,3-Trichlorobenzene (ug/L)	< 20
1,2,4-Trichlorobenzene (ug/L)	< 20
1,2,4-Trimethylbenzene (ug/L)	3700
1,2-Dibromo-3-chloropropane (ug/L)	< 60
1,2-Dibromoethane (ug/L)	< 40
1,2-Dichlorobenzene (ug/L)	< 20
1,2-Dichloroethane (ug/L)	< 20
1,2-Dichloropropane (ug/L)	< 20
1,3,5-Trimethylbenzene (ug/L)	880
1,3-Dichlorobenzene (ug/L)	< 20
1,3-Dichloropropane (ug/L)	< 20
1,4-Dichlorobenzene (ug/L)	< 20
2,2-Dichloropropane (ug/L)	< 20
2-Chlorotoluene (ug/L)	< 20
4-Chlorotoluene (ug/L)	< 20
Benzene (ug/L)	56
Bromobenzene (ug/L)	< 20
Bromodichloromethane (ug/L)	< 20
Carbon tetrachloride (ug/L)	< 20
Chlorobenzene (ug/L)	< 20
Chlorodibromomethane (ug/L)	< 20
Chloroethane (ug/L)	< 40
Chloroform (ug/L)	< 20
Chloromethane (ug/L)	< 40
Di-isopropyl ether (ug/L)	< 20
Dichlorodifluoromethane (ug/L)	< 200
Ethylbenzene (ug/L)	100
Hexachlorobutadiene (ug/L)	< 20
Isopropylbenzene (ug/L)	190
Methyl tert-butyl ether (ug/L)	< 20
Methylene chloride (ug/L)	< 60
Naphthalene (ug/L)	190
Tetrachloroethene (ug/L)	< 20
Toluene (ug/L)	240
Trichloroethene (ug/L)	32
Trichlorofluoromethane (ug/L)	< 20
Vinyl chloride (ug/L)	< 20
cis-1,2-Dichloroethene (ug/L)	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/30/93
m + p-Xylene (ug/L)	800
n-Butylbenzene (ug/L)	380
n-Propylbenzene (ug/L)	260
o-Xylene (ug/L)	920
p-Isopropyltoluene (ug/L)	< 20
sec-Butylbenzene (ug/L)	72
tert-Butylbenzene (ug/L)	< 20
trans-1,2-Dichloroethene (ug/L)	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W36 1

Parameter	02/20/92	08/03/92	09/17/92
1,1,1-Trichloroethane (ug/L)	< 5	< 50	< 50
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50	< 50
1,1,2-Trichloroethane (ug/L)	< 5	< 50	< 50
1,1-Dichloroethane (ug/L)	< 5	< 50	< 50
1,1-Dichloroethene (ug/L)	< 5	< 50	< 50
1,2-Dichloroethane (ug/L)	< 5	< 50	< 50
1,2-Dichloropropane (ug/L)	< 5	< 50	< 50
2-Butanone (MEK) (ug/L)	< 10	< 100	< 100
2-Hexanone (ug/L)	< 10	< 100	< 100
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100	< 100
Acetone (ug/L)	< 10	< 100	< 100
Benzene (ug/L)	7	< 50	< 50
Bromodichloromethane (ug/L)	< 5	< 50	< 50
Bromoform (ug/L)	< 5	< 50	< 50
Bromomethane (ug/L)	< 10	< 100	< 100
Carbon disulfide (ug/L)	< 5	< 50	< 50
Carbon tetrachloride (ug/L)	< 5	< 50	< 50
Chlorobenzene (ug/L)	< 5	< 50	< 50
Chlorodibromomethane (ug/L)	< 5	< 50	< 50
Chloroethane (ug/L)	< 10	< 100	< 100
Chloroform (ug/L)	< 5	< 50	< 50
Chloromethane (ug/L)	< 10	< 100	< 100
Ethylbenzene (ug/L)	17	< 50	< 50
Methylene chloride (ug/L)	< 5	< 50	113
Naphthalene (ug/L)	70	71.8	< 10
Styrene (ug/L)	< 5	< 50	< 50
Tetrachloroethene (ug/L)	< 5	< 50	< 50
Toluene (ug/L)	13	< 50	< 50
Trichloroethene (ug/L)	31	< 50	< 50
Vinyl acetate (ug/L)	< 10	< 100	< 100
Vinyl chloride (ug/L)	< 10	< 100	< 100
Xylenes, Total (ug/L)	< 5	297	447
cis-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50
trans-1,2-Dichloroethene (ug/L)	< 5	< 50	< 50
trans-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	02/20/92	06/24/92	09/17/92	12/18/92	03/24/93
Hexachlorobutadiene (ug/L)					< 10
Isopropylbenzene (ug/L)					150
Methylene chloride (ug/L)	< 5	< 50	< 50	< 10	< 30
Naphthalene (ug/L)	78	91	82.4	130	110
Styrene (ug/L)	< 5	< 50	< 50	< 5	< 10
Tetrachloroethene (ug/L)	< 5	< 50	< 50	< 5	< 10
Toluene (ug/L)	16	< 50	< 50	19.2	24
Trichloroethene (ug/L)	10	82.4	< 50	205	200
Trichlorofluoromethane (ug/L)					< 10
Vinyl acetate (ug/L)	< 10	< 100	< 100	< 10	
Vinyl chloride (ug/L)	< 10	< 100	< 100	< 10	< 10
Xylenes, Total (ug/L)	860	1060	< 50	691	
cis-1,2-Dichloroethene (ug/L)					< 10
cis-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 10
m + p-Xylene (ug/L)					280
n-Butylbenzene (ug/L)					380
n-Propylbenzene (ug/L)					220
o-Xylene (ug/L)					500
p-Isopropyltoluene (ug/L)					< 10
sec-Butylbenzene (ug/L)					82
tert-Butylbenzene (ug/L)					< 10
trans-1,2-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 10
trans-1,3-Dichloropropene (ug/L)	< 5	< 50	< 50	< 5	< 10

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W37 1

Parameter	02/20/92	06/24/92	09/17/92	12/18/92	03/24/93
1,1,1,2-Tetrachloroethane (ug/L)					< 10
1,1,1-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 10
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50	< 50	< 5	< 10
1,1,2-Trichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 10
1,1-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 10
1,1-Dichloroethene (ug/L)	< 5	< 50	< 50	< 5	< 10
1,1-Dichloropropene (ug/L)					< 10
1,2,3-Trichlorobenzene (ug/L)					< 10
1,2,3-Trichloropropane (ug/L)					< 10
1,2,4-Trichlorobenzene (ug/L)					< 10
1,2,4-Trimethylbenzene (ug/L)					2600
1,2-Dibromo-3-chloropropane (ug/L)					< 30
1,2-Dibromoethane (ug/L)					< 20
1,2-Dichlorobenzene (ug/L)					< 10
1,2-Dichloroethane (ug/L)	< 5	< 50	< 50	< 5	< 10
1,2-Dichloropropane (ug/L)	< 5	< 50	< 50	< 5	< 10
1,3,5-Trimethylbenzene (ug/L)					1000
1,3-Dichlorobenzene (ug/L)					< 10
1,3-Dichloropropane (ug/L)					< 10
1,4-Dichlorobenzene (ug/L)					< 10
2,2-Dichloropropane (ug/L)					< 10
2-Butanone (MEK) (ug/L)	< 10	< 100	< 100	81.9	
2-Chlorotoluene (ug/L)					< 10
2-Hexanone (ug/L)	< 10	< 100	< 100	< 10	
4-Chlorotoluene (ug/L)					< 10
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100	< 100	< 10	
Acetone (ug/L)	< 10	< 100	< 100	25.9	
Benzene (ug/L)	< 5	< 50	< 50	< 5	< 10
Bromobenzene (ug/L)					< 10
Bromochloromethane (ug/L)					< 10
Bromodichloromethane (ug/L)	< 5	< 50	< 50	< 5	< 10
Bromoform (ug/L)	< 5	< 50	< 50	< 5	< 10
Bromomethane (ug/L)	< 10	< 100	< 100	< 10	< 20
Carbon disulfide (ug/L)	< 5	< 50	< 50	< 5	
Carbon tetrachloride (ug/L)	< 5	< 50	< 50	< 5	< 10
Chlorobenzene (ug/L)	< 5	< 50	< 50	< 5	< 10
Chlorodibromomethane (ug/L)	< 5	< 50	< 50	< 5	< 10
Chloroethane (ug/L)	< 10	< 100	< 100	< 10	< 20
Chloroform (ug/L)	< 5	< 50	< 50	< 5	< 10
Chloromethane (ug/L)	< 10	< 100	< 100	< 10	< 20
Dibromomethane (ug/L)					< 10
Dichlorodifluoromethane (ug/L)					< 20
Ethylbenzene (ug/L)	112	71.3	< 50	59.2	54

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W38 1

Parameter	02/22/92	07/29/92
1,1,1-Trichloroethane (ug/L)	< 5	< 50
1,1,2,2-Tetrachloroethane (ug/L)	< 5	< 50
1,1,2-Trichloroethane (ug/L)	< 5	< 50
1,1-Dichloroethane (ug/L)	< 5	< 50
1,1-Dichloroethene (ug/L)	< 5	< 50
1,2-Dichloroethane (ug/L)	< 5	< 50
1,2-Dichloropropane (ug/L)	< 5	< 50
2-Butanone (MEK) (ug/L)	< 10	< 100
2-Hexanone (ug/L)	< 10	< 100
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 10	< 100
Acetone (ug/L)	< 10	< 100
Benzene (ug/L)	< 5	< 50
Bromodichloromethane (ug/L)	< 5	< 50
Bromoform (ug/L)	< 5	< 50
Bromomethane (ug/L)	< 10	< 100
Carbon disulfide (ug/L)	< 5	< 50
Carbon tetrachloride (ug/L)	< 5	< 50
Chlorobenzene (ug/L)	< 5	< 50
Chlorodibromomethane (ug/L)	< 5	< 50
Chloroethane (ug/L)	< 10	< 100
Chloroform (ug/L)	< 5	< 50
Chloromethane (ug/L)	< 10	< 100
Ethylbenzene (ug/L)	33.2	< 50
Methylene chloride (ug/L)	< 5	< 50
Naphthalene (ug/L)	105	124
Styrene (ug/L)	< 5	< 50
Tetrachloroethene (ug/L)	< 5	< 50
Toluene (ug/L)	11.7	< 50
Trichloroethene (ug/L)	11.8	< 50
Vinyl acetate (ug/L)	< 10	< 100
Vinyl chloride (ug/L)	< 10	< 100
Xylenes, Total (ug/L)	392	859
cis-1,3-Dichloropropene (ug/L)	< 5	< 50
trans-1,2-Dichloroethene (ug/L)	< 5	< 50
trans-1,3-Dichloropropene (ug/L)	< 5	< 50

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W39

Parameter	06/17/92	12/18/92	06/21/94
1,1,1,2-Tetrachloroethane (ug/L)			< 1
1,1,1-Trichloroethane (ug/L)	< 50	64.6	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 50	< 1
1,1,2-Trichloroethane (ug/L)	< 50	< 50	< 1
1,1-Dichloroethane (ug/L)	< 50	< 50	< 1
1,1-Dichloroethene (ug/L)	< 50	< 50	< 1
1,1-Dichloropropene (ug/L)			< 1
1,2,3-Trichlorobenzene (ug/L)			< 1
1,2,3-Trichloropropane (ug/L)			< 1
1,2,4-Trichlorobenzene (ug/L)			< 1
1,2,4-Trimethylbenzene (ug/L)			2400
1,2-Dibromo-3-chloropropane (ug/L)			< 3
1,2-Dibromoethane (ug/L)			< 2
1,2-Dichlorobenzene (ug/L)			< 1
1,2-Dichloroethane (ug/L)	< 50	< 50	< 1
1,2-Dichloropropane (ug/L)	< 50	< 50	< 1
1,3,5-Trimethylbenzene (ug/L)			600
1,3-Dichlorobenzene (ug/L)			< 1
1,3-Dichloropropane (ug/L)			< 1
1,4-Dichlorobenzene (ug/L)			< 1
2,2-Dichloropropane (ug/L)			< 1
2-Butanone (MEK) (ug/L)	< 100	< 100	
2-Chlorotoluene (ug/L)			< 1
2-Hexanone (ug/L)	< 100	< 100	
4-Chlorotoluene (ug/L)			< 1
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 100	
Acetone (ug/L)	190	271	
Benzene (ug/L)	< 50	< 50	5.3
Bromobenzene (ug/L)			< 1
Bromochloromethane (ug/L)			< 1
Bromodichloromethane (ug/L)	< 50	< 50	< 1
Bromoform (ug/L)	< 50	< 50	< 1
Bromomethane (ug/L)	< 100	< 100	< 2
Carbon disulfide (ug/L)	< 50	< 50	
Carbon tetrachloride (ug/L)	< 50	< 50	< 1
Chlorobenzene (ug/L)	< 50	< 50	< 1
Chlorodibromomethane (ug/L)	< 50	< 50	< 1
Chloroethane (ug/L)	< 100	< 100	< 2
Chloroform (ug/L)	< 50	< 50	3.5
Chloromethane (ug/L)	< 100	< 100	< 2
Dibromomethane (ug/L)			< 1
Dichlorodifluoromethane (ug/L)			< 2
Ethylbenzene (ug/L)	69.5	59.8	75

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/17/92	12/18/92	06/21/94
Hexachlorobutadiene (ug/L)			< 1
Isopropylbenzene (ug/L)			180
Methylene chloride (ug/L)	< 50	142	< 3
Naphthalene (ug/L)	632	732	160
Styrene (ug/L)	< 50	< 50	< 25
Tetrachloroethene (ug/L)	< 50	< 50	3
Toluene (ug/L)	189	154	< 1
Trichloroethene (ug/L)	< 50	< 50	19
Trichlorofluoromethane (ug/L)			< 1
Vinyl acetate (ug/L)	< 100	< 100	
Vinyl chloride (ug/L)	< 100	< 100	< 1
Xylenes, Total (ug/L)	1000	784	
cis-1,2-Dichloroethene (ug/L)			< 1
cis-1,3-Dichloropropene (ug/L)	< 50	< 50	< 1
m + p-Xylene (ug/L)			450
n-Butylbenzene (ug/L)			320
n-Propylbenzene (ug/L)			280
o-Xylene (ug/L)			600
p-Isopropyltoluene (ug/L)			< 25
sec-Butylbenzene (ug/L)			160
tert-Butylbenzene (ug/L)			< 25
trans-1,2-Dichloroethene (ug/L)	< 50	< 50	< 1
trans-1,3-Dichloropropene (ug/L)	< 50	< 50	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W41

Parameter	02/25/92	06/16/92	09/17/92	12/19/92	03/24/93	06/30/93	12/28/93	06/21/94	07/06/95
1,1,1,2-Tetrachloroethane (ug/L)					< 1		< 1	< 1	
1,1,1-Trichloroethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,1,2,2-Tetrachloroethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,1,2-Trichloroethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,1-Dichloroethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,1-Dichloroethene (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,1-Dichloropropene (ug/L)					< 1		< 1	< 1	
1,2,3-Trichlorobenzene (ug/L)					< 1	< 100	< 1	< 1	
1,2,3-Trichloropropane (ug/L)					< 1		< 1	< 1	
1,2,4-Trichlorobenzene (ug/L)					< 1	< 100	< 1	< 1	
1,2,4-Trimethylbenzene (ug/L)					620	2200	110	20	
1,2-Dibromo-3-chloropropane (ug/L)					< 3	< 300	< 3	< 3	
1,2-Dibromoethane (ug/L)					< 2	< 200	< 2	< 2	
1,2-Dichlorobenzene (ug/L)					< 1	< 100	< 1	< 1	< 20
1,2-Dichloroethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,2-Dichloropropane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
1,3,5-Trimethylbenzene (ug/L)					230	2400	130	400	
1,3-Dichlorobenzene (ug/L)					< 1	< 100	< 1	< 1	< 20
1,3-Dichloropropane (ug/L)					< 1	< 100	< 1	< 1	
1,4-Dichlorobenzene (ug/L)					< 1	< 100	< 1	< 1	< 20
2,2-Dichloropropane (ug/L)					< 1	< 100	< 1	< 1	
2-Butanone (MEK) (ug/L)	< 100	< 100	< 100	38.5					
2-Chloroethyl vinyl ether (ug/L)									< 200
2-Chlorotoluene (ug/L)					< 1	< 100	< 1	< 1	
2-Hexanone (ug/L)	< 100	< 100	< 100	< 10					
4-Chlorotoluene (ug/L)					< 1	< 100	< 1	< 1	
4-Methyl-2-Pentanone (MIBK) (ug/L)	< 100	< 100	< 100	< 10					
Acetone (ug/L)	< 100	191	123	170					
Benzene (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
Bromobenzene (ug/L)					< 1	< 100	< 1	< 1	
Bromochloromethane (ug/L)					< 1		< 1	< 1	
Bromodichloromethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
Bromoform (ug/L)	< 50	< 50	< 50	< 5	< 1		< 1	< 1	< 20
Bromomethane (ug/L)	< 100	< 100	< 100	< 10	< 2		< 2	< 2	< 40
Carbon disulfide (ug/L)	< 50	< 50	< 50	< 5					
Carbon tetrachloride (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
Chlorobenzene (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
Chlorodibromomethane (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
Chloroethane (ug/L)	< 100	< 100	< 100	< 10	< 2	< 200	< 2	< 2	< 40
Chloroform (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	2.8	< 20
Chloromethane (ug/L)	< 100	< 100	< 100	< 10	< 2	< 200	< 2	< 2	< 40
Di-isopropyl ether (ug/L)						< 100			
Dibromomethane (ug/L)					< 1		< 1	< 1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W41

Parameter	02/25/92	06/16/92	09/17/92	12/19/92	03/24/93	06/30/93	12/28/93	06/21/94	07/06/95
Dichlorodifluoromethane (ug/L)					< 2	< 200	< 2	< 2	
Ethylbenzene (ug/L)	< 50	< 50	< 50	< 5	6.3	600	< 1	< 1	< 20
Hexachlorobutadiene (ug/L)					< 1	< 100	< 1	< 1	
Isopropylbenzene (ug/L)					57	2000	7.1	14	
Methyl tert-butyl ether (ug/L)						< 100			
Methylene chloride (ug/L)	85.3	< 50	53.7	< 10	< 3	< 300	< 3	< 3	< 60
Naphthalene (ug/L)	130	< 103	48.1	52.3	95	630	44	27	52
Styrene (ug/L)	< 50	< 50	< 50	< 5	5.9		< 1	< 1	
Tetrachloroethene (ug/L)	< 50	< 50	< 50	< 5	1.3	< 100	3.8	6.5	< 20
Toluene (ug/L)	< 50	< 50	< 50	< 5	7.5	< 100	3.6	< 1	< 20
Trichloroethene (ug/L)	< 50	< 50	< 50	< 5	3.8	< 100	4	4.4	< 20
Trichlorofluoromethane (ug/L)					< 1	< 100	< 1	< 1	< 20
Vinyl acetate (ug/L)	< 100	< 100	< 100	< 10					
Vinyl chloride (ug/L)	< 100	< 100	< 100	< 10	< 1	< 100	< 1	< 1	< 20
Xylenes, Total (ug/L)	125	66.2	135	67.3					
cis-1,2-Dichloroethene (ug/L)					< 1	< 100	< 1	< 1	< 20
cis-1,3-Dichloropropene (ug/L)	< 50	< 50	< 50	< 5	< 1		< 1	< 1	< 20
m + p-Xylene (ug/L)					60	500	5	5.8	77
n-Butylbenzene (ug/L)					230	4800	120	280	
n-Propylbenzene (ug/L)					36	2400	6.6	< 1	
o-Xylene (ug/L)					190	2700	18	160	140
p-Isopropyltoluene (ug/L)					< 1	1200	13	< 1	
sec-Butylbenzene (ug/L)					58	2900	12	13	
tert-Butylbenzene (ug/L)					< 1	< 100	< 1	< 1	
trans-1,2-Dichloroethene (ug/L)	< 50	< 50	< 50	< 5	< 1	< 100	< 1	< 1	< 20
trans-1,3-Dichloropropene (ug/L)	< 50	< 50	< 50	< 5	< 1		< 1	< 1	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W66

Parameter	06/30/93
1,1,1-Trichloroethane (ug/L)	< 5
1,1,2,2-Tetrachloroethane (ug/L)	< 5
1,1,2-Trichloroethane (ug/L)	< 5
1,1-Dichloroethane (ug/L)	< 5
1,1-Dichloroethene (ug/L)	< 5
1,2,3-Trichlorobenzene (ug/L)	< 5
1,2,4-Trichlorobenzene (ug/L)	< 5
1,2,4-Trimethylbenzene (ug/L)	800
1,2-Dibromo-3-chloropropane (ug/L)	< 15
1,2-Dibromoethane (ug/L)	< 10
1,2-Dichlorobenzene (ug/L)	< 5
1,2-Dichloroethane (ug/L)	< 5
1,2-Dichloropropane (ug/L)	< 5
1,3,5-Trimethylbenzene (ug/L)	180
1,3-Dichlorobenzene (ug/L)	< 5
1,3-Dichloropropane (ug/L)	< 5
1,4-Dichlorobenzene (ug/L)	< 5
2,2-Dichloropropane (ug/L)	< 5
2-Chlorotoluene (ug/L)	< 5
4-Chlorotoluene (ug/L)	< 5
Benzene (ug/L)	< 5
Bromobenzene (ug/L)	< 5
Bromodichloromethane (ug/L)	< 5
Carbon tetrachloride (ug/L)	< 5
Chlorobenzene (ug/L)	< 5
Chlorodibromomethane (ug/L)	< 5
Chloroethane (ug/L)	< 10
Chloroform (ug/L)	< 5
Chloromethane (ug/L)	< 10
Di-isopropyl ether (ug/L)	18
Dichlorodifluoromethane (ug/L)	< 10
Ethylbenzene (ug/L)	< 5
Hexachlorobutadiene (ug/L)	< 5
Isopropylbenzene (ug/L)	32
Methyl tert-butyl ether (ug/L)	< 5
Methylene chloride (ug/L)	< 15
Naphthalene (ug/L)	80
Tetrachloroethene (ug/L)	< 5
Toluene (ug/L)	220
Trichloroethene (ug/L)	< 5
Trichlorofluoromethane (ug/L)	< 5
Vinyl chloride (ug/L)	< 5
cis-1,2-Dichloroethene (ug/L)	< 5

Parameter	06/30/93
m + p-Xylene (ug/L)	110
n-Butylbenzene (ug/L)	80
n-Propylbenzene (ug/L)	65
o-Xylene (ug/L)	140
p-Isopropyltoluene (ug/L)	< 5
sec-Butylbenzene (ug/L)	28
tert-Butylbenzene (ug/L)	< 5
trans-1,2-Dichloroethene (ug/L)	< 5

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W67

Parameter	06/29/93
1,1,1-Trichloroethane (ug/L)	< 1
1,1,2,2-Tetrachloroethane (ug/L)	< 1
1,1,2-Trichloroethane (ug/L)	< 1
1,1-Dichloroethane (ug/L)	< 1
1,1-Dichloroethene (ug/L)	< 1
1,2,3-Trichlorobenzene (ug/L)	< 1
1,2,4-Trichlorobenzene (ug/L)	< 1
1,2,4-Trimethylbenzene (ug/L)	16
1,2-Dibromo-3-chloropropane (ug/L)	< 3
1,2-Dibromoethane (ug/L)	< 2
1,2-Dichlorobenzene (ug/L)	< 1
1,2-Dichloroethane (ug/L)	< 1
1,2-Dichloropropane (ug/L)	< 1
1,3,5-Trimethylbenzene (ug/L)	8
1,3-Dichlorobenzene (ug/L)	< 1
1,3-Dichloropropane (ug/L)	< 1
1,4-Dichlorobenzene (ug/L)	< 1
2,2-Dichloropropane (ug/L)	< 1
2-Chlorotoluene (ug/L)	< 1
4-Chlorotoluene (ug/L)	< 1
Benzene (ug/L)	< 1
Bromobenzene (ug/L)	< 1
Bromodichloromethane (ug/L)	< 1
Carbon tetrachloride (ug/L)	< 1
Chlorobenzene (ug/L)	< 1
Chlorodibromomethane (ug/L)	< 1
Chloroethane (ug/L)	< 2
Chloroform (ug/L)	7.4
Chloromethane (ug/L)	< 2
Di-isopropyl ether (ug/L)	< 1
Dichlorodifluoromethane (ug/L)	< 20
Ethylbenzene (ug/L)	< 1
Hexachlorobutadiene (ug/L)	< 1
Isopropylbenzene (ug/L)	2.8
Methyl tert-butyl ether (ug/L)	< 1
Methylene chloride (ug/L)	< 3
Naphthalene (ug/L)	18
Tetrachloroethene (ug/L)	< 1
Toluene (ug/L)	29
Trichloroethene (ug/L)	23
Trichlorofluoromethane (ug/L)	< 1
Vinyl chloride (ug/L)	< 1
cis-1,2-Dichloroethene (ug/L)	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	06/29/93
m + p-Xylene (ug/L)	< 2
n-Butylbenzene (ug/L)	6.5
n-Propylbenzene (ug/L)	2.8
o-Xylene (ug/L)	11
p-Isopropyltoluene (ug/L)	1.4
sec-Butylbenzene (ug/L)	7.8
tert-Butylbenzene (ug/L)	< 1
trans-1,2-Dichloroethene (ug/L)	< 1

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W69

Parameter	12/29/93
1,1,1,2-Tetrachloroethane (ug/L)	< 20
1,1,1-Trichloroethane (ug/L)	< 20
1,1,2,2-Tetrachloroethane (ug/L)	< 20
1,1,2-Trichloroethane (ug/L)	< 20
1,1-Dichloroethane (ug/L)	< 20
1,1-Dichloroethene (ug/L)	< 20
1,1-Dichloropropene (ug/L)	< 20
1,2,3-Trichlorobenzene (ug/L)	< 20
1,2,3-Trichloropropane (ug/L)	< 20
1,2,4-Trichlorobenzene (ug/L)	< 20
1,2,4-Trimethylbenzene (ug/L)	2500
1,2-Dibromo-3-chloropropane (ug/L)	< 60
1,2-Dibromoethane (ug/L)	< 40
1,2-Dichlorobenzene (ug/L)	< 20
1,2-Dichloroethane (ug/L)	< 20
1,2-Dichloropropane (ug/L)	< 20
1,3,5-Trimethylbenzene (ug/L)	680
1,3-Dichlorobenzene (ug/L)	< 20
1,3-Dichloropropane (ug/L)	< 20
1,4-Dichlorobenzene (ug/L)	< 20
2,2-Dichloropropane (ug/L)	< 20
2-Chlorotoluene (ug/L)	< 20
4-Chlorotoluene (ug/L)	< 20
Benzene (ug/L)	< 20
Bromobenzene (ug/L)	< 20
Bromochloromethane (ug/L)	< 20
Bromodichloromethane (ug/L)	< 20
Bromoform (ug/L)	< 20
Bromomethane (ug/L)	< 40
Carbon tetrachloride (ug/L)	< 20
Chlorobenzene (ug/L)	< 20
Chlorodibromomethane (ug/L)	< 20
Chloroethane (ug/L)	< 40
Chloroform (ug/L)	< 20
Chloromethane (ug/L)	< 40
Dibromomethane (ug/L)	< 20
Dichlorodifluoromethane (ug/L)	< 40
Ethylbenzene (ug/L)	78
Hexachlorobutadiene (ug/L)	< 20
Isopropylbenzene (ug/L)	140
Methylene chloride (ug/L)	< 60
Naphthalene (ug/L)	72
Styrene (ug/L)	< 20

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W69 2

Parameter	12/29/93
Tetrachloroethene (ug/L)	< 20
Toluene (ug/L)	38
Trichloroethene (ug/L)	120
Trichlorofluoromethane (ug/L)	< 20
Vinyl chloride (ug/L)	< 20
cis-1,2-Dichloroethene (ug/L)	< 20
cis-1,3-Dichloropropene (ug/L)	< 20
m + p-Xylene (ug/L)	360
n-Butylbenzene (ug/L)	140
n-Propylbenzene (ug/L)	340
o-Xylene (ug/L)	600
p-Isopropyltoluene (ug/L)	60
sec-Butylbenzene (ug/L)	64
tert-Butylbenzene (ug/L)	< 20
trans-1,2-Dichloroethene (ug/L)	< 20
trans-1,3-Dichloropropene (ug/L)	< 20

A4

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Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W02 1

Parameter	09/18/92	06/22/94	07/06/95
1234678-HpCDD (ng/L)	999	510.868	331.141
1234678-HpCDF (ng/L)	285	184.49	184.245
123478-HxCDD (ng/L)	.037	< .471	< 1.351
123478-HxCDF (ng/L)	17.9	J 12.921	J 15.502
1234789-HpCDF (ng/L)	18.8	J 11.676	J 8.754
123678-HxCDD (ng/L)	24.1	J 19.782	J 21.325
123678-HxCDF (ng/L)	2.45	J 1.808	245.317
12378-PeCDD (ng/L)	.043	< .606	< .209
12378-PeCDF (ng/L)	.671	<J .687	41.677
123789-HxCDD (ng/L)	3.49	J 1.297	< 1.579
123789-HxCDF (ng/L)	.262	J 2.577	J 2.982
234678-HxCDF (ng/L)	6.02	<J 3.635	J 9.71
23478-PeCDF (ng/L)	1.39	<J 1.124	< .357
2378-TCDD (ng/L)	.011	< .505	< .24
2378-TCDF (ng/L)	.103	< .387	< .219
OCDD (ng/L)	5250	4308.834	4285.786
OCDF (ng/L)	1850	1017.302	1273.765
Total HpCDD (ng/L)	1530	764.43	565.36
Total HpCDF (ng/L)	1790	1013.53	992.16
Total HxCDD (ng/L)	68.3	41.39	J 21.32
Total HxCDF (ng/L)	407.3	250.69	781.96
Total PeCDD (ng/L)	.306	< .606	< 1.12
Total PeCDF (ng/L)	17.3	J 9.3	183.44
Total TCDD (ng/L)	.366	< .505	< .24
Total TCDF (ng/L)	1.38	<J .689	64.48

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03A

Parameter	09/18/92	06/30/93	06/22/94	07/06/95
1234678-HpCDD (ng/L)	422	2082.462	22602.051	5502.558
1234678-HpCDF (ng/L)	108	966.584	10396.106	6652.747
123478-HxCDD (ng/L)	.255	< 403.823	J 17.622	< 2.753
123478-HxCDF (ng/L)	8.53	98.536	1110.846	1077.283
1234789-HpCDF (ng/L)	7.46	75.208	656.879	329.606
123678-HxCDD (ng/L)	10.8	141.598	1207.937	467.088
123678-HxCDF (ng/L)	1.49	14.053	53.782	18195.655
12378-PeCDD (ng/L)	.025	.197	J 1.354	< 1.384
12378-PeCDF (ng/L)	.324	2.608	34.666	959.595
123789-HxCDD (ng/L)	1.49	10.861	97.574	33.653
123789-HxCDF (ng/L)	.116	15.625	180.593	166.555
234678-HxCDF (ng/L)	2.51	41.895	289.538	249.625
23478-PeCDF (ng/L)	.89	12.907	77.122	29.77
2378-TCDD (ng/L)	< .005	.056	J .586	< 2.313
2378-TCDF (ng/L)	.073	2.568	21.316	< 2.77
OCDD (ng/L)	2460	3366.196	99621.522	H 39690.459
OCDF (ng/L)	664	2102.479	150738.508	H 26948.508
Total HpCDD (ng/L)	653	3651.206	32960.78	7874.67
Total HpCDF (ng/L)	597	3657.721	59876	21812.96
Total HxCDD (ng/L)	30.5	358.289	3080.5	687.53
Total HxCDF (ng/L)	165	1508.647	19291.24	35135.42
Total PeCDD (ng/L)	.247	2.032	J 1.35	J 5.73
Total PeCDF (ng/L)	9.86	225.072	856.69	1672.16
Total TCDD (ng/L)	.122	.693	J .59	< 2.313
Total TCDF (ng/L)	1	24.559	80.66	1594.65

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W03B

Parameter	09/18/92	06/29/93	06/22/94	07/06/95
1234678-HpCDD (ng/L)	85.5	2.451	J 3.788	J 15.712
1234678-HpCDF (ng/L)	22	.677	J 1.798	J 4.961
123478-HxCDD (ng/L)	.024	< .309	< .48	< .131
123478-HxCDF (ng/L)	1.34	.046	< .455	< .127
1234789-HpCDF (ng/L)	1.27	.053	< .475	< .173
123678-HxCDD (ng/L)	2.6	.112	< .45	< .121
123678-HxCDF (ng/L)	.205	.009	< .411	J 4.94
12378-PeCDD (ng/L)	.017	< .01	< .567	< .158
12378-PeCDF (ng/L)	.117	< .029	< .332	J 1.463
123789-HxCDD (ng/L)	.497	.023	< .429	< .116
123789-HxCDF (ng/L)	.045	< .049	< .495	< .148
234678-HxCDF (ng/L)	.216	.06	< .465	< .132
23478-PeCDF (ng/L)	.189	< .033	< .317	< .12
2378-TCDD (ng/L)	< .003	< .01	< .52	< .16
2378-TCDF (ng/L)	.028	< .016	< .338	< .117
OCDD (ng/L)	618	22.814	J 35.59	150.323
OCDF (ng/L)	113	2.683	J 6.883	J 21.176
Total HpCDD (ng/L)	134	3.827	J 3.79	J 23.83
Total HpCDF (ng/L)	116	3.424	J 7.06	25.63
Total HxCDD (ng/L)	9.03	.298	< .429	< .116
Total HxCDF (ng/L)	30.1	1.106	< .411	J 10.73
Total PeCDD (ng/L)	.044	.001	< .567	< .158
Total PeCDF (ng/L)	2.7	.151	< .317	J 3.43
Total TCDD (ng/L)	.03	.004	< .52	< .16
Total TCDF (ng/L)	.224	.044	<J .722	< .426

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W08 1

Parameter	09/18/92	06/28/93	06/21/94	07/06/95
1234678-HpCDD (ng/L)	36.1	1.319	< .265	25.914
1234678-HpCDF (ng/L)	8.36	.381	< .374	J 10.055
123478-HxCDD (ng/L)	.044	< .171	< .428	< .123
123478-HxCDF (ng/L)	.575	.028	< .392	< .112
1234789-HpCDF (ng/L)	.594	.027	< .434	< .146
123678-HxCDD (ng/L)	1.32	.066	< .402	J 1.062
123678-HxCDF (ng/L)	.113	.016	< .355	J 10.571
12378-PeCDD (ng/L)	.006	.015	< .45	< .166
12378-PeCDF (ng/L)	.057	.016	< .277	J 2.653
123789-HxCDD (ng/L)	.231	< .125	< .382	< .108
123789-HxCDF (ng/L)	.008	.013	< .427	< .13
234678-HxCDF (ng/L)	.123	.012	< .401	< .116
23478-PeCDF (ng/L)	.092	.005	< .264	< .125
2378-TCDD (ng/L)	< .002	.015	< .433	J .497
2378-TCDF (ng/L)	.016	.009	< .341	< .103
OCDD (ng/L)	272	12.466	J 4.249	223.085
OCDF (ng/L)	42.3	1.328	< .546	J 40.119
Total HpCDD (ng/L)	56.7	2.067	< .265	38.97
Total HpCDF (ng/L)	46	2.287	< .374	J 10.05
Total HxCDD (ng/L)	3.87	.155	< .382	J 1.06
Total HxCDF (ng/L)	13.1	.71	< .355	29.92
Total PeCDD (ng/L)	.033	.016	< .45	< .166
Total PeCDF (ng/L)	1.1	.126	< .264	J 8.18
Total TCDD (ng/L)	.035	.019	< .433	J .5
Total TCDF (ng/L)	.074	.027	<J .533	< .428

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W10A

Parameter	09/18/92	06/30/93	06/22/94	07/06/95
1234678-HpCDD (ng/L)	14.1	6.462	< .263	J 4.846
1234678-HpCDF (ng/L)	3.5	2.324	< .282	J 1.756
123478-HxCDD (ng/L)	.003	.007	< .311	< .252
123478-HxCDF (ng/L)	.221	.122	< .278	< .257
1234789-HpCDF (ng/L)	.246	.169	< .362	< .274
123678-HxCDD (ng/L)	.428	.195	< .303	< .232
123678-HxCDF (ng/L)	.048	.021	< .225	< .239
12378-PeCDD (ng/L)	< .006	.003	< .349	< .302
12378-PeCDF (ng/L)	.02	.004	< .195	< .226
123789-HxCDD (ng/L)	.077	.027	< .283	< .222
123789-HxCDF (ng/L)	< .01	.044	< .303	< .3
234678-HxCDF (ng/L)	.047	.064	< .271	< .267
23478-PeCDF (ng/L)	.035	.01	< .186	< .219
2378-TCDD (ng/L)	< .003	.002	< .355	< .244
2378-TCDF (ng/L)	< .01	.044	< .228	< .245
OCDD (ng/L)	189	59.61	J 12.164	53.873
OCDF (ng/L)	18.7	13.93	< .715	J 8.13
Total HpCDD (ng/L)	22.5	10.107	< .263	J 7.49
Total HpCDF (ng/L)	17.9	13.1	< .282	J 8.2
Total HxCDD (ng/L)	1.23	.544	< .283	< .222
Total HxCDF (ng/L)	4.3	2.866	< .225	< .239
Total PeCDD (ng/L)	.02	.003	< .349	< .302
Total PeCDF (ng/L)	.446	.31	< .186	< .219
Total TCDD (ng/L)	.263	.013	< .355	< .244
Total TCDF (ng/L)	.173	.146	<J .615	< .8

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W11 1

Parameter	09/18/92	06/30/93	06/21/94	07/05/95
1234678-HpCDD (ng/L)	10.2	5.738	< .39	J 3.408
1234678-HpCDF (ng/L)	2.57	1.549	< .353	J 1.045
123478-HxCDD (ng/L)	.013	.006	< .408	< .125
123478-HxCDF (ng/L)	.165	.095	< .31	< .095
1234789-HpCDF (ng/L)	.148	.1	< .452	< .115
123678-HxCDD (ng/L)	.367	.253	< .397	< .116
123678-HxCDF (ng/L)	.035	.021	< .251	J 1.109
12378-PeCDD (ng/L)	< .004	.004	< .421	< .113
12378-PeCDF (ng/L)	.017	.006	< .26	< .096
123789-HxCDD (ng/L)	.139	.029	< .37	< .111
123789-HxCDF (ng/L)	< .012	.039	< .338	< .104
234678-HxCDF (ng/L)	.032	.044	< .302	< .099
23478-PeCDF (ng/L)	.03	.016	< .247	< .093
2378-TCDD (ng/L)	< .002	< .01	< .404	< .118
2378-TCDF (ng/L)	.006	.005	< .306	< .099
OCDD (ng/L)	77.1	49.283	J 10.325	J 35.738
OCDF (ng/L)	10.9	4.901	< .693	J 3.41
Total HpCDD (ng/L)	15.4	8.572	< .39	J 5.21
Total HpCDF (ng/L)	12	7.891	< .353	J 4.02
Total HxCDD (ng/L)	1.21	.655	< .37	< .111
Total HxCDF (ng/L)	3.24	2.338	< .251	J 1.04
Total PeCDD (ng/L)	.035	.006	< .421	< .113
Total PeCDF (ng/L)	.353	.388	< .247	< .093
Total TCDD (ng/L)	.043	.002	< .404	< .118
Total TCDF (ng/L)	.042	.041	<J .433	< .395

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W16 1

Parameter	09/18/92	06/29/93	06/21/94	07/06/95
1234678-HpCDD (ng/L)	14	.98	< .382	< .252
1234678-HpCDF (ng/L)	3.2	.254	< .292	< .381
123478-HxCDD (ng/L)	.006	< .128	< .353	< .372
123478-HxCDF (ng/L)	.183	.02	< .29	< .426
1234789-HpCDF (ng/L)	.195	.025	< .319	< .45
123678-HxCDD (ng/L)	.361	.044	< .344	< .343
123678-HxCDF (ng/L)	.031	.007	< .236	< .395
12378-PeCDD (ng/L)	< .003	.003	< .356	< .357
12378-PeCDF (ng/L)	.016	.004	< .245	< .237
123789-HxCDD (ng/L)	.118	< .097	< .32	< .328
123789-HxCDF (ng/L)	< .006	.008	< .317	< .495
234678-HxCDF (ng/L)	.081	.009	< .283	< .441
23478-PeCDF (ng/L)	.026	.005	< .233	< .23
2378-TCDD (ng/L)	< .002	< .015	< .382	< .328
2378-TCDF (ng/L)	.008	< .007	< .28	< .253
OCDD (ng/L)	123	8.688	J 9.754	J 10.046
OCDF (ng/L)	16.2	1.009	< .706	< .548
Total HpCDD (ng/L)	21.7	1.473	< .382	< .252
Total HpCDF (ng/L)	15.9	1.219	< .292	< .381
Total HxCDD (ng/L)	1.41	.061	< .32	< .328
Total HxCDF (ng/L)	3.66	.365	< .236	< .395
Total PeCDD (ng/L)	.027	.003	< .356	< .357
Total PeCDF (ng/L)	.301	.037	< .233	< .23
Total TCDD (ng/L)	.047	.001	< .382	< .328
Total TCDF (ng/L)	.053	0	.542	< .253

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W25

Parameter	09/18/92	06/28/93	06/21/94	07/05/95
1234678-HpCDD (ng/L)	2850	222.258	36.801	J 3.067
1234678-HpCDF (ng/L)	776	86.208	J 14.908	J 1.507
123478-HxCDD (ng/L)	1.16	< 24.369	< .311	< .148
123478-HxCDF (ng/L)	38.4	3.73	< .264	< .136
1234789-HpCDF (ng/L)	47.8	5.105	J .664	< .128
123678-HxCDD (ng/L)	43.7	8.846	< .303	< .136
123678-HxCDF (ng/L)	8.1	.493	J .472	J 1.59
12378-PeCDD (ng/L)	.101	.013	< .315	< .171
12378-PeCDF (ng/L)	1.49	.162	< .231	< .094
123789-HxCDD (ng/L)	9.06	.574	< .282	< .131
123789-HxCDF (ng/L)	.452	1.324	< .288	< .158
234678-HxCDF (ng/L)	13.3	1.417	< .257	< .141
23478-PeCDF (ng/L)	3.46	.299	< .219	< .091
2378-TCDD (ng/L)	.022	< .018	< .342	< .118
2378-TCDF (ng/L)	.277	.091	< .245	< .094
OCDD (ng/L)	14000	1496.469	257.441	J 20.664
OCDF (ng/L)	5170	407.868	76.435	J 4.231
Total HpCDD (ng/L)	4350	339.489	55.21	J 4.6
Total HpCDF (ng/L)	5100	526.05	71.51	J 5.2
Total HxCDD (ng/L)	223	22.431	< .282	< .131
Total HxCDF (ng/L)	1200	136.281	J 12.69	J 2.4
Total PeCDD (ng/L)	.84	.062	< .315	< .171
Total PeCDF (ng/L)	43	16.327	< .219	< .091
Total TCDD (ng/L)	.321	.04	< .342	< .118
Total TCDF (ng/L)	3.54	2.893	<J .534	< .353

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W26

Parameter	09/18/92	06/30/93	06/22/94	07/06/95
1234678-HpCDD (ng/L)	6.26	1.241	< .283	J 1.565
1234678-HpCDF (ng/L)	1.46	.339	< .294	< .132
123478-HxCDD (ng/L)	.007	.003	< .37	< .144
123478-HxCDF (ng/L)	.092	.024	< .315	< .16
1234789-HpCDF (ng/L)	.095	.025	< .342	< .156
123678-HxCDD (ng/L)	.25	.056	< .347	< .132
123678-HxCDF (ng/L)	.021	.007	< .285	< .149
12378-PeCDD (ng/L)	.003	.003	< .476	< .162
12378-PeCDF (ng/L)	.008	.002	< .315	< .135
123789-HxCDD (ng/L)	.05	.005	< .33	< .127
123789-HxCDF (ng/L)	.002	.014	< .343	< .186
234678-HxCDF (ng/L)	.022	.014	< .323	< .166
23478-PeCDF (ng/L)	.017	.005	< .301	< .131
2378-TCDD (ng/L)	< .007	< .008	< .452	< .168
2378-TCDF (ng/L)	< .017	.051	< .339	< .143
OCDD (ng/L)	49.2	12.301	< .658	J 15.758
OCDF (ng/L)	6.76	1.591	< .607	J 2.163
Total HpCDD (ng/L)	9.83	2.008	< .283	J 2.37
Total HpCDF (ng/L)	7.29	2.024	< .294	J 1.76
Total HxCDD (ng/L)	.673	.144	< .33	< .127
Total HxCDF (ng/L)	2.18	.638	< .285	< .149
Total PeCDD (ng/L)	.021	.003	< .476	< .162
Total PeCDF (ng/L)	.165	.111	< .301	< .131
Total TCDD (ng/L)	.724	.001	< .452	< .168
Total TCDF (ng/L)	.132	.057	<J .723	< .446

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W28 1

Parameter	09/18/92	06/29/93	06/22/94	07/05/95
1234678-HpCDD (ng/L)	10.1	.942	< .438	J .836
1234678-HpCDF (ng/L)	2.85	.245	< .381	< .09
123478-HxCDD (ng/L)	.008	< .105	< .472	< .165
123478-HxCDF (ng/L)	.135	.017	< .368	< .101
1234789-HpCDF (ng/L)	.194	.025	< .488	< .106
123678-HxCDD (ng/L)	.279	.04	< .46	< .152
123678-HxCDF (ng/L)	.021	.006	< .299	< .093
12378-PeCDD (ng/L)	< .003	.004	< .479	< .139
12378-PeCDF (ng/L)	.013	.003	< .318	< .095
123789-HxCDD (ng/L)	.062	< .082	< .429	< .146
123789-HxCDF (ng/L)	< .007	.011	< .403	< .117
234678-HxCDF (ng/L)	.03	.01	< .359	< .104
23478-PeCDF (ng/L)	.023	< .009	< .302	< .092
2378-TCDD (ng/L)	< .001	< .01	< .46	< .091
2378-TCDF (ng/L)	< .007	.056	< .353	< .072
OCDD (ng/L)	79.9	15.634	J 5.466	J 8.622
OCDF (ng/L)	24.4	.99	< .954	J 1.335
Total HpCDD (ng/L)	15.2	1.54	< .438	J .84
Total HpCDF (ng/L)	14.4	1.327	< .381	< .09
Total HxCDD (ng/L)	.948	.103	< .429	< .146
Total HxCDF (ng/L)	2.86	.397	< .299	< .093
Total PeCDD (ng/L)	.019	.005	< .479	< .139
Total PeCDF (ng/L)	.237	.049	< .302	< .092
Total TCDD (ng/L)	.066	.001	< .46	< .091
Total TCDF (ng/L)	.039	.068	<J .608	< .375

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W29 1

Parameter	09/18/92	06/30/93	07/05/95
1234678-HpCDD (ng/L)	7.45	.618	J .678
1234678-HpCDF (ng/L)	1.58	.158	< .102
123478-HxCDD (ng/L)	.01	.004	< .091
123478-HxCDF (ng/L)	.095	.013	< .098
1234789-HpCDF (ng/L)	.118	< 1.333	< .117
123678-HxCDD (ng/L)	.247	.032	< .085
123678-HxCDF (ng/L)	.016	.005	< .093
12378-PeCDD (ng/L)	< .002	< .005	< .11
12378-PeCDF (ng/L)	.009	.002	< .398
123789-HxCDD (ng/L)	.036	.01	< .081
123789-HxCDF (ng/L)	.01	.015	< .108
234678-HxCDF (ng/L)	.027	< .006	< .102
23478-PeCDF (ng/L)	.015	< .014	< .096
2378-TCDD (ng/L)	< .001	< .009	< .117
2378-TCDF (ng/L)	< .005	.009	< .077
OCDD (ng/L)	52.8	7.613	J 6.783
OCDF (ng/L)	7.32	.497	< .147
Total HpCDD (ng/L)	11.4	1.05	J .68
Total HpCDF (ng/L)	8.05	.828	< .102
Total HxCDD (ng/L)	.673	.1	< .081
Total HxCDF (ng/L)	2.04	.27	< .093
Total PeCDD (ng/L)	.019	.001	< .11
Total PeCDF (ng/L)	.092	.051	< .398
Total TCDD (ng/L)	.043	.002	< .117
Total TCDF (ng/L)	.032	.019	< .395

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLE ID: W33 1

Parameter	06/30/93
1234678-HpCDD (ng/L)	2489.212
1234678-HpCDF (ng/L)	1098.028
123478-HxCDD (ng/L)	< 1344.341
123478-HxCDF (ng/L)	175.962
1234789-HpCDF (ng/L)	114.601
123678-HxCDD (ng/L)	283.526
123678-HxCDF (ng/L)	27.605
12378-PeCDD (ng/L)	.573
12378-PeCDF (ng/L)	8.906
123789-HxCDD (ng/L)	44.527
123789-HxCDF (ng/L)	27.478
234678-HxCDF (ng/L)	62.15
23478-PeCDF (ng/L)	40.396
2378-TCDD (ng/L)	< .139
2378-TCDF (ng/L)	11.603
OCDD (ng/L)	3795.085
OCDF (ng/L)	2493.375
Total HpCDD (ng/L)	4372.31
Total HpCDF (ng/L)	4712.778
Total HxCDD (ng/L)	915.659
Total HxCDF (ng/L)	2325.545
Total PeCDD (ng/L)	4.972
Total PeCDF (ng/L)	573.111
Total TCDD (ng/L)	.302
Total TCDF (ng/L)	65.51

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Parameter	09/18/92
1234678-HpCDD (ng/L)	3320
1234678-HpCDF (ng/L)	634
123478-HxCDD (ng/L)	1.43
123478-HxCDF (ng/L)	41.4
1234789-HpCDF (ng/L)	39.8
123678-HxCDD (ng/L)	61.2
123678-HxCDF (ng/L)	7.05
12378-PeCDD (ng/L)	.168
12378-PeCDF (ng/L)	3.86
123789-HxCDD (ng/L)	9.02
123789-HxCDF (ng/L)	.763
234678-HxCDF (ng/L)	7.73
23478-PeCDF (ng/L)	6.18
2378-TCDD (ng/L)	.011
2378-TCDF (ng/L)	1.07
OCDD (ng/L)	14700
OCDF (ng/L)	2480
Total HpCDD (ng/L)	4990
Total HpCDF (ng/L)	4070
Total HxCDD (ng/L)	162
Total HxCDF (ng/L)	1030
Total PeCDD (ng/L)	1.4
Total PeCDF (ng/L)	79.8
Total TCDD (ng/L)	.353
Total TCDF (ng/L)	7.46

B

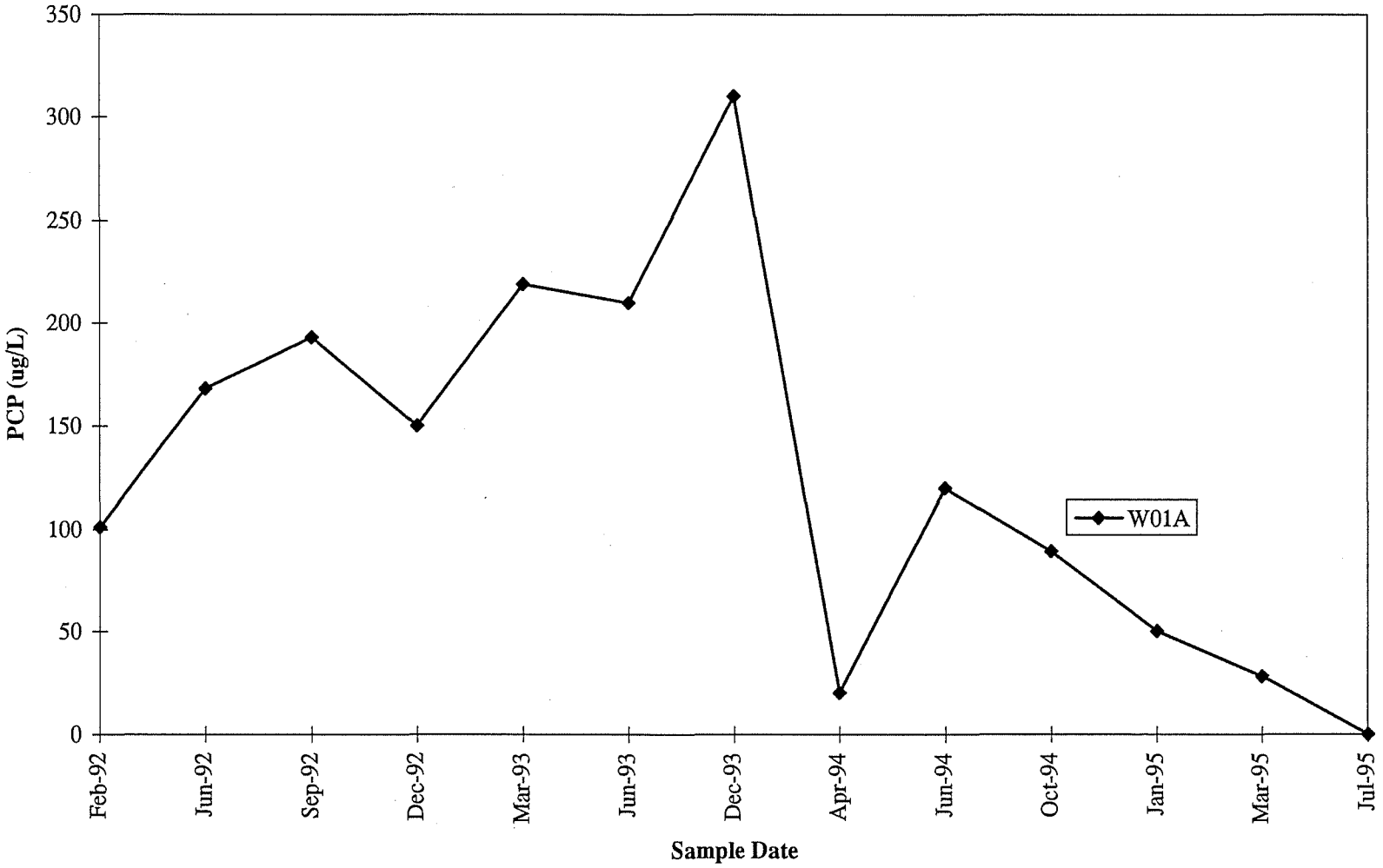
TIME TREND GRAPHICS

B1 PCP Time Trends
B2 Chloride Time Trends

B1

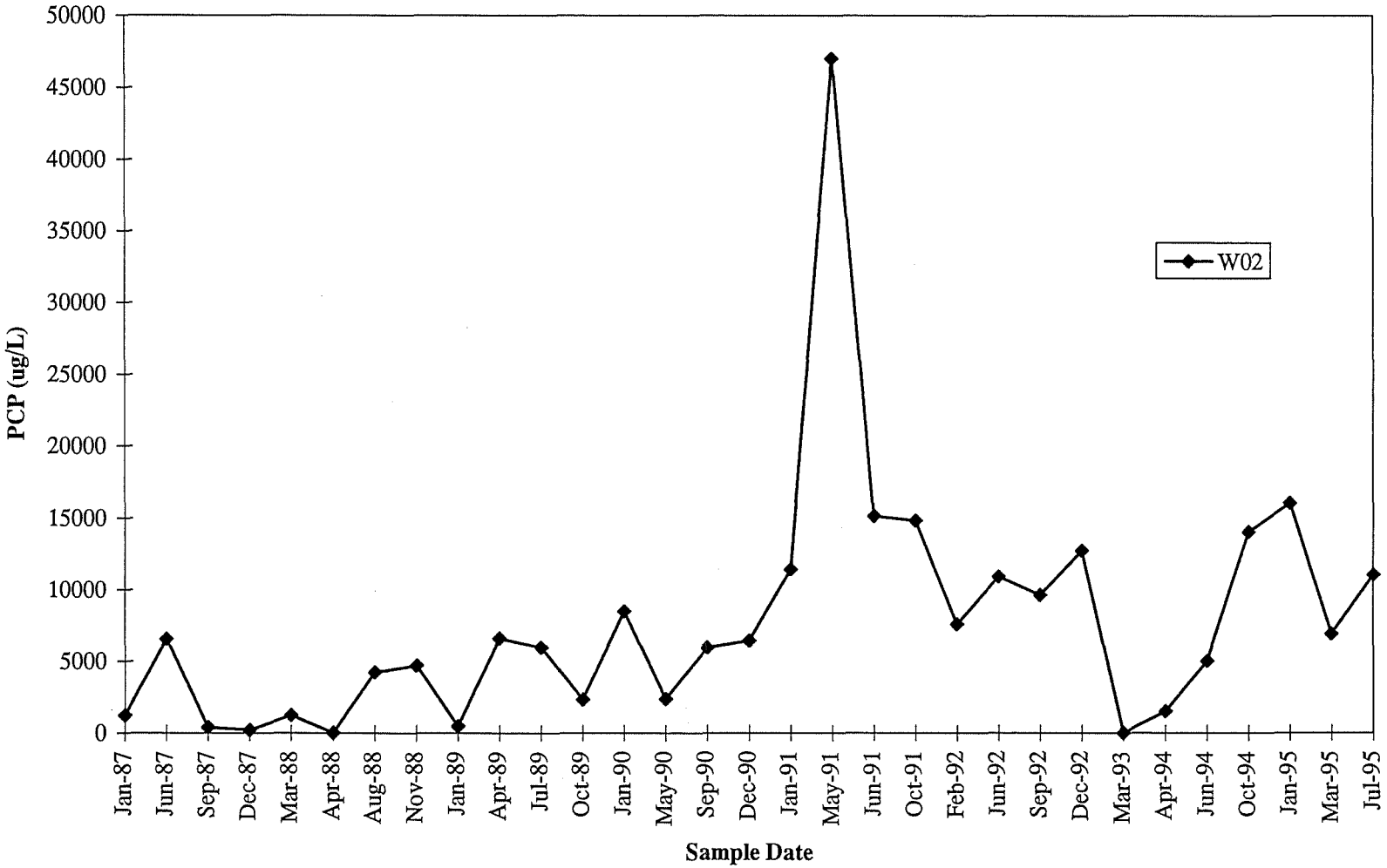
PCP Time Trends

Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



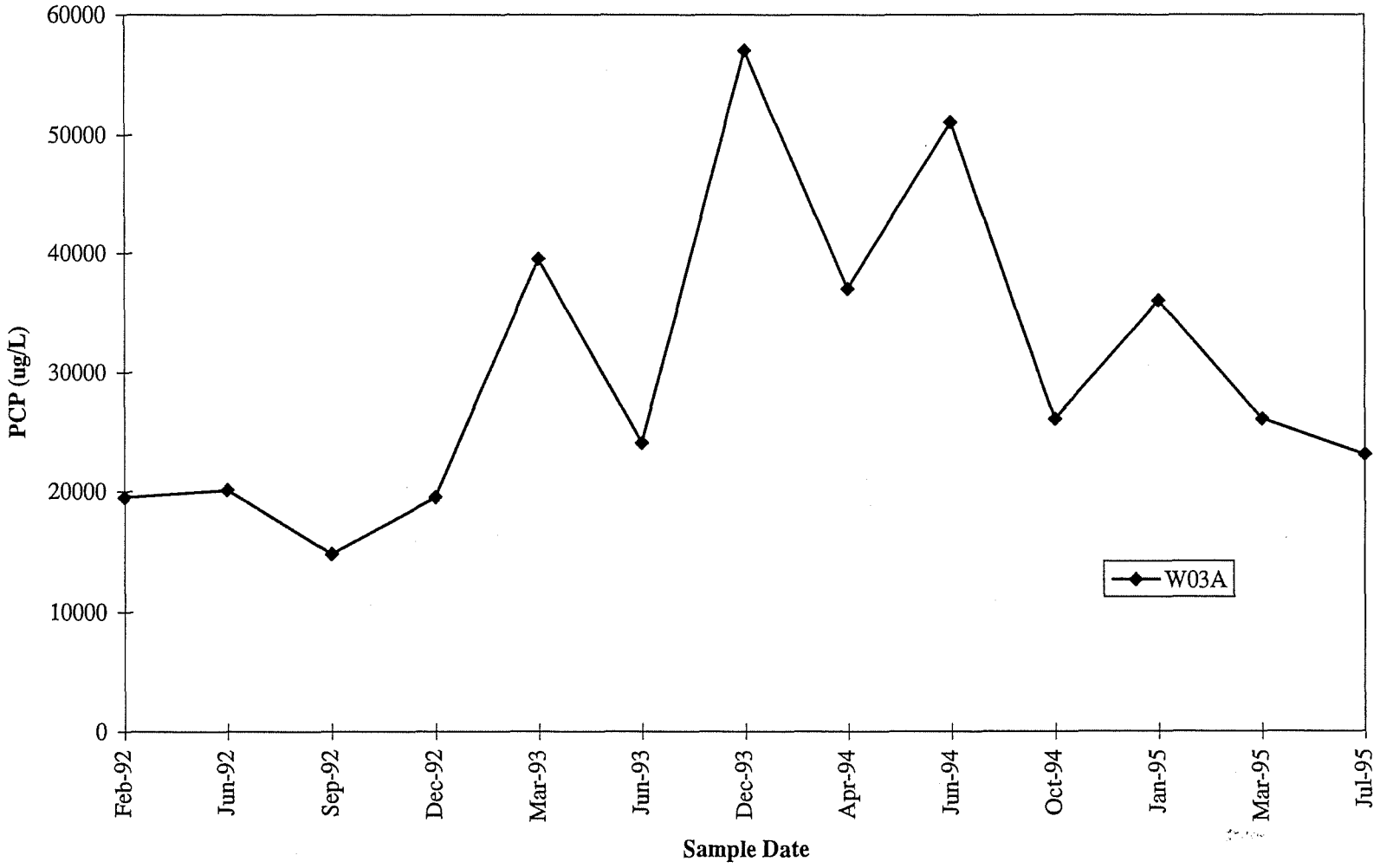
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



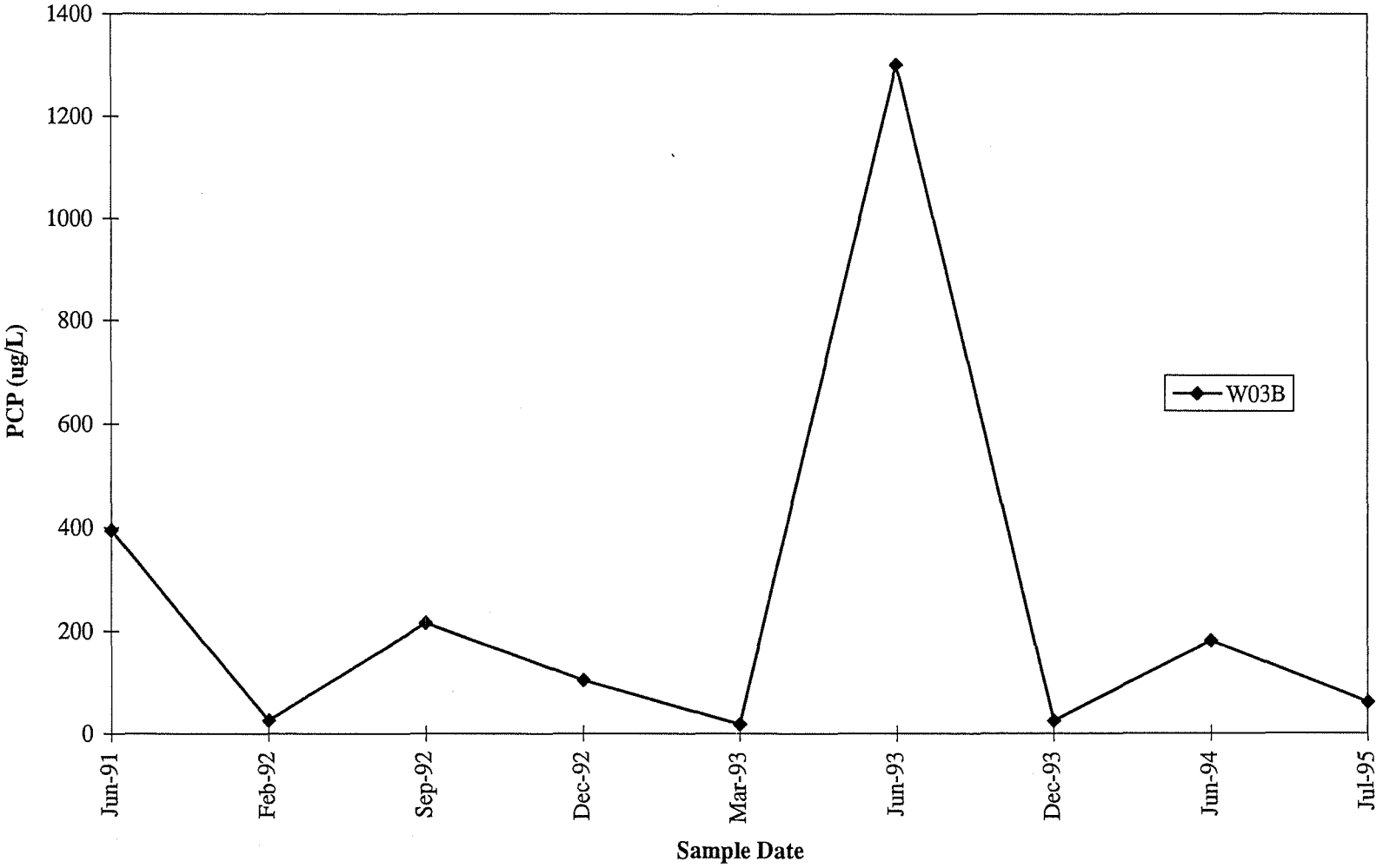
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



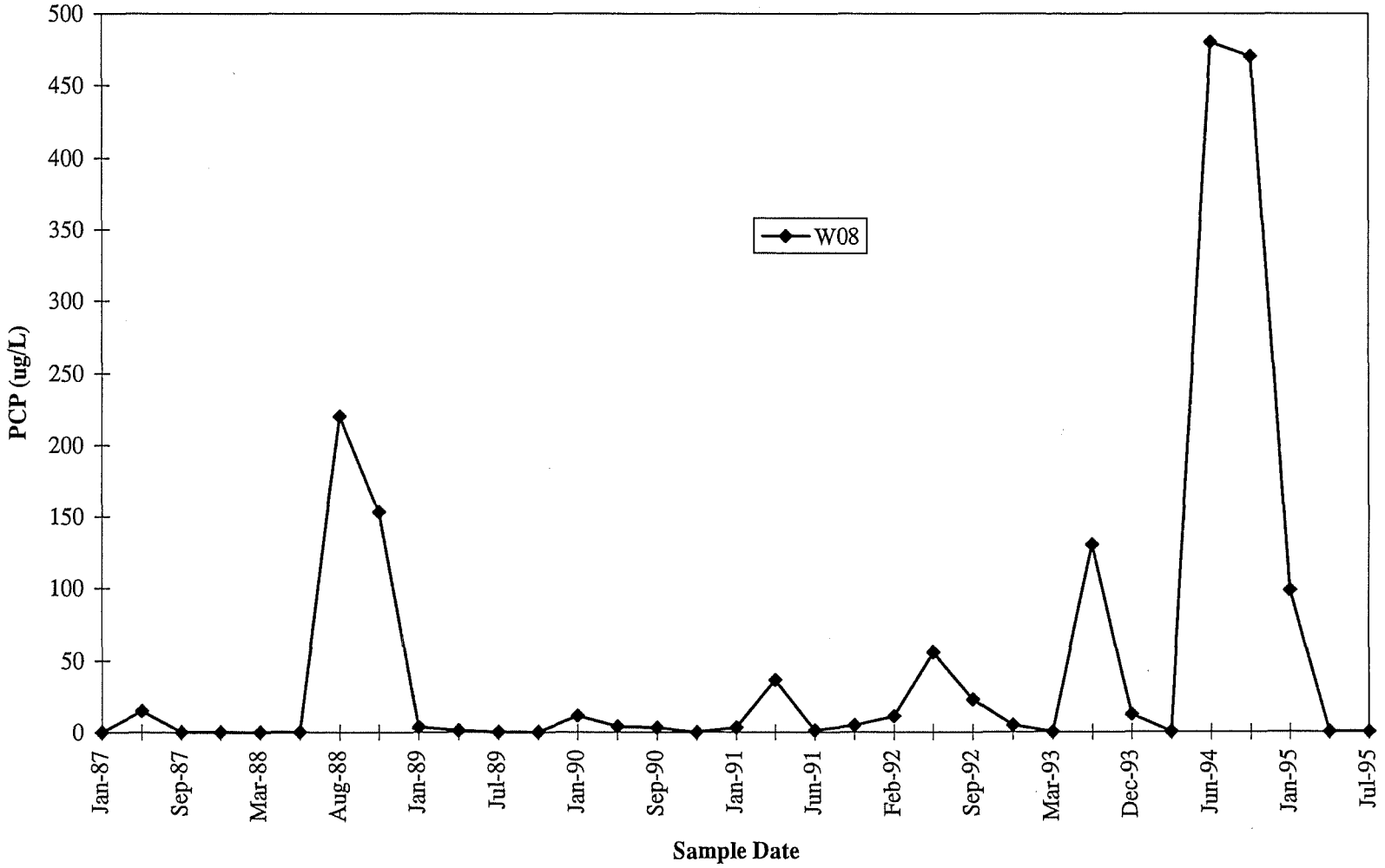
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



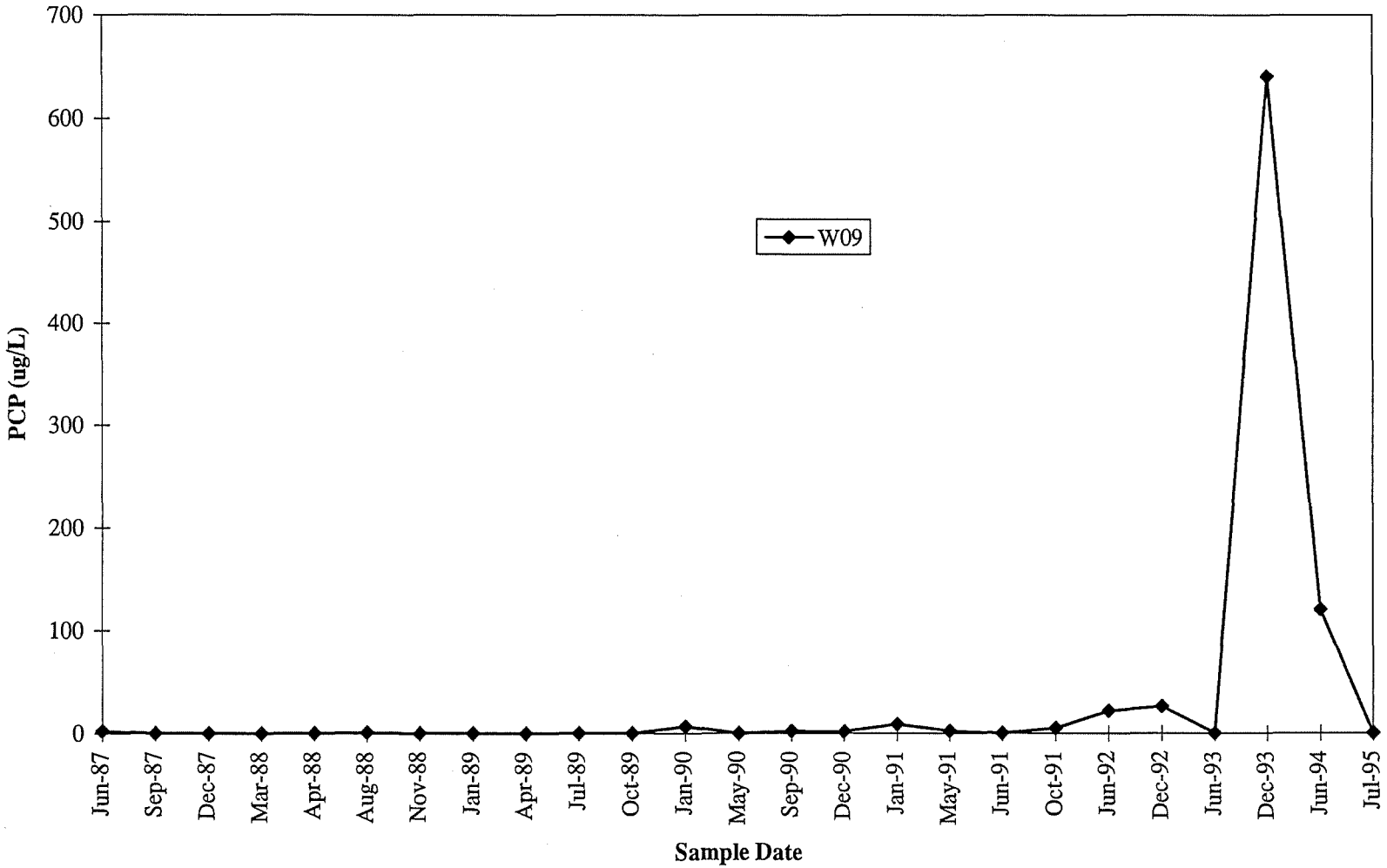
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



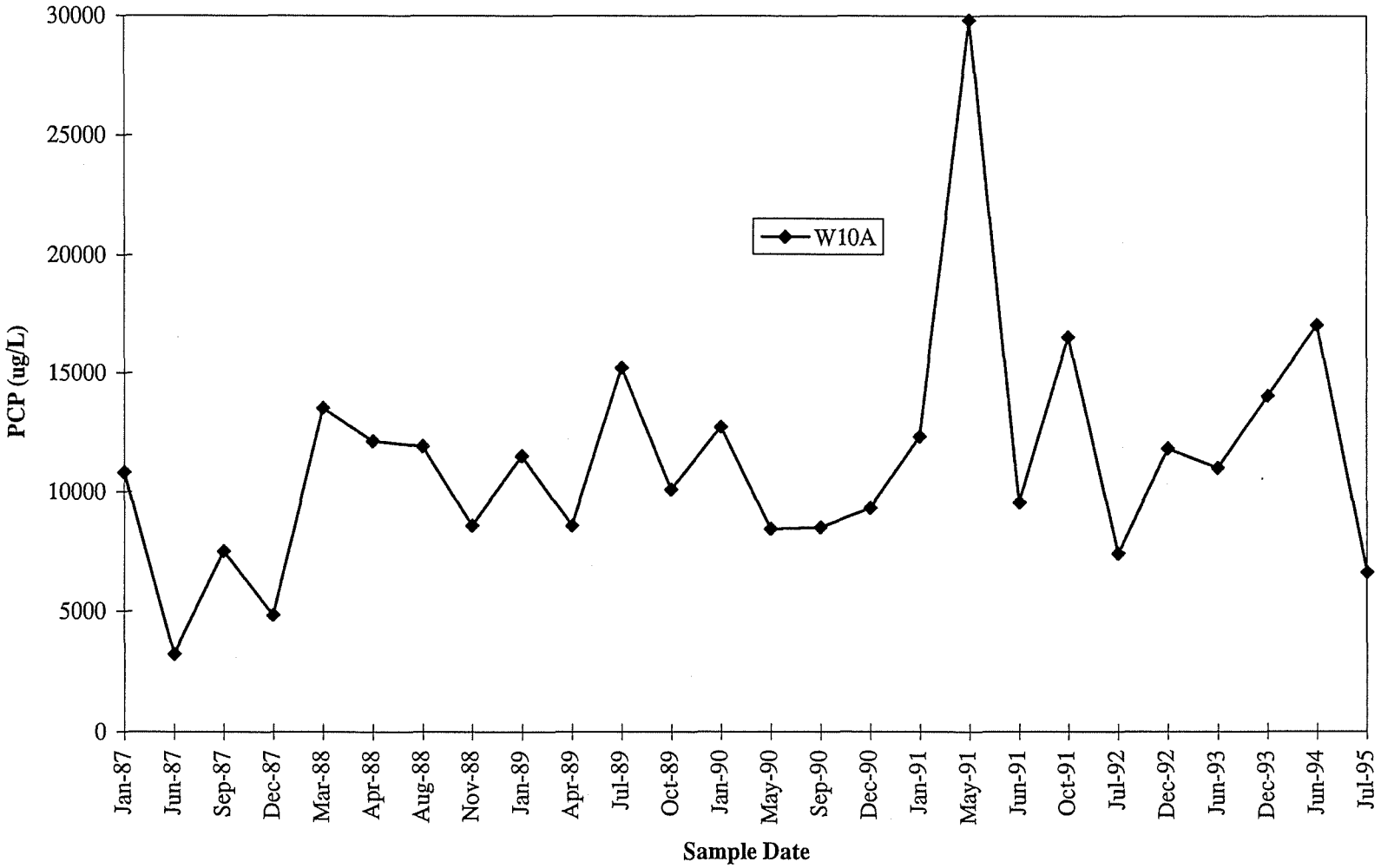
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



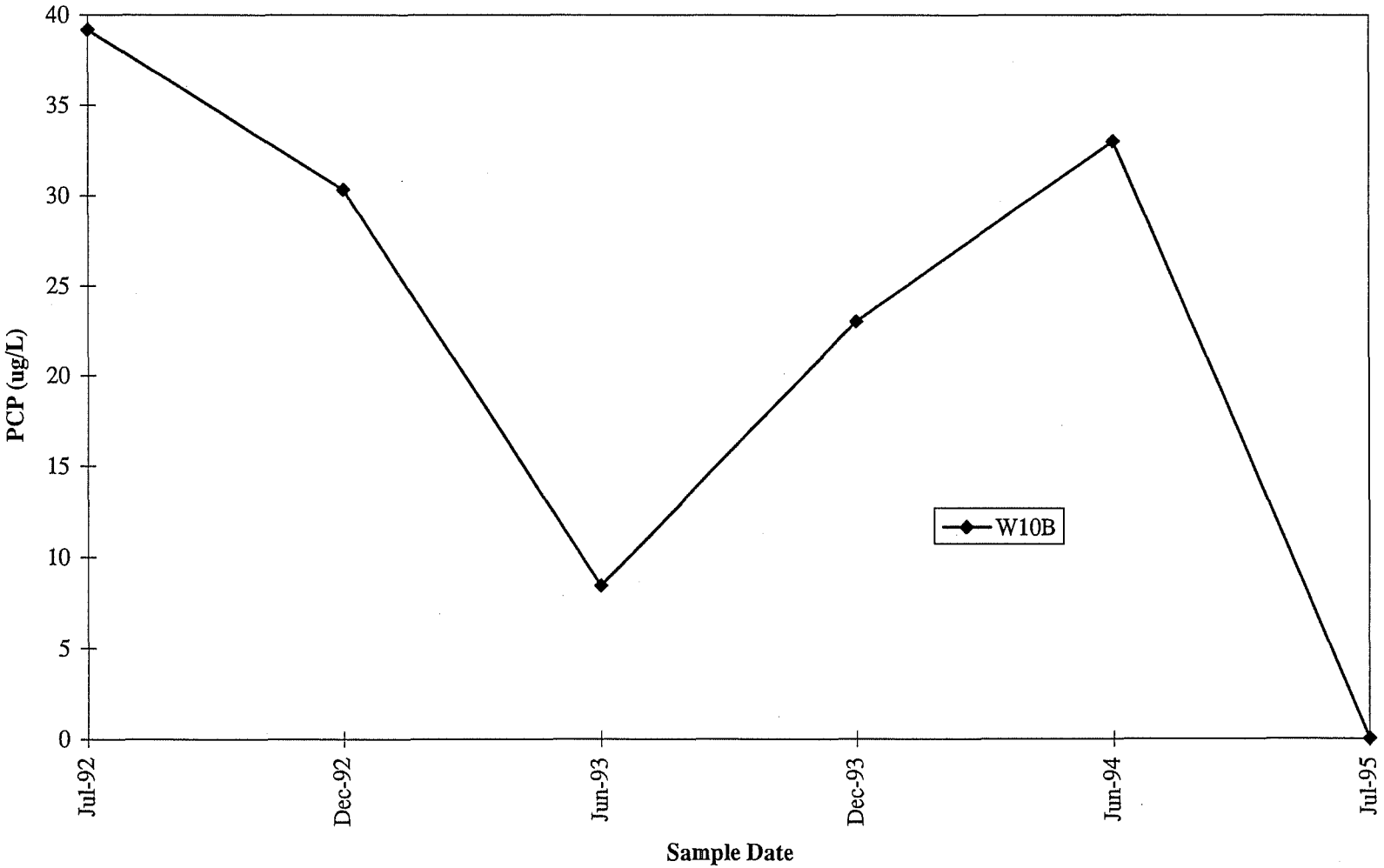
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



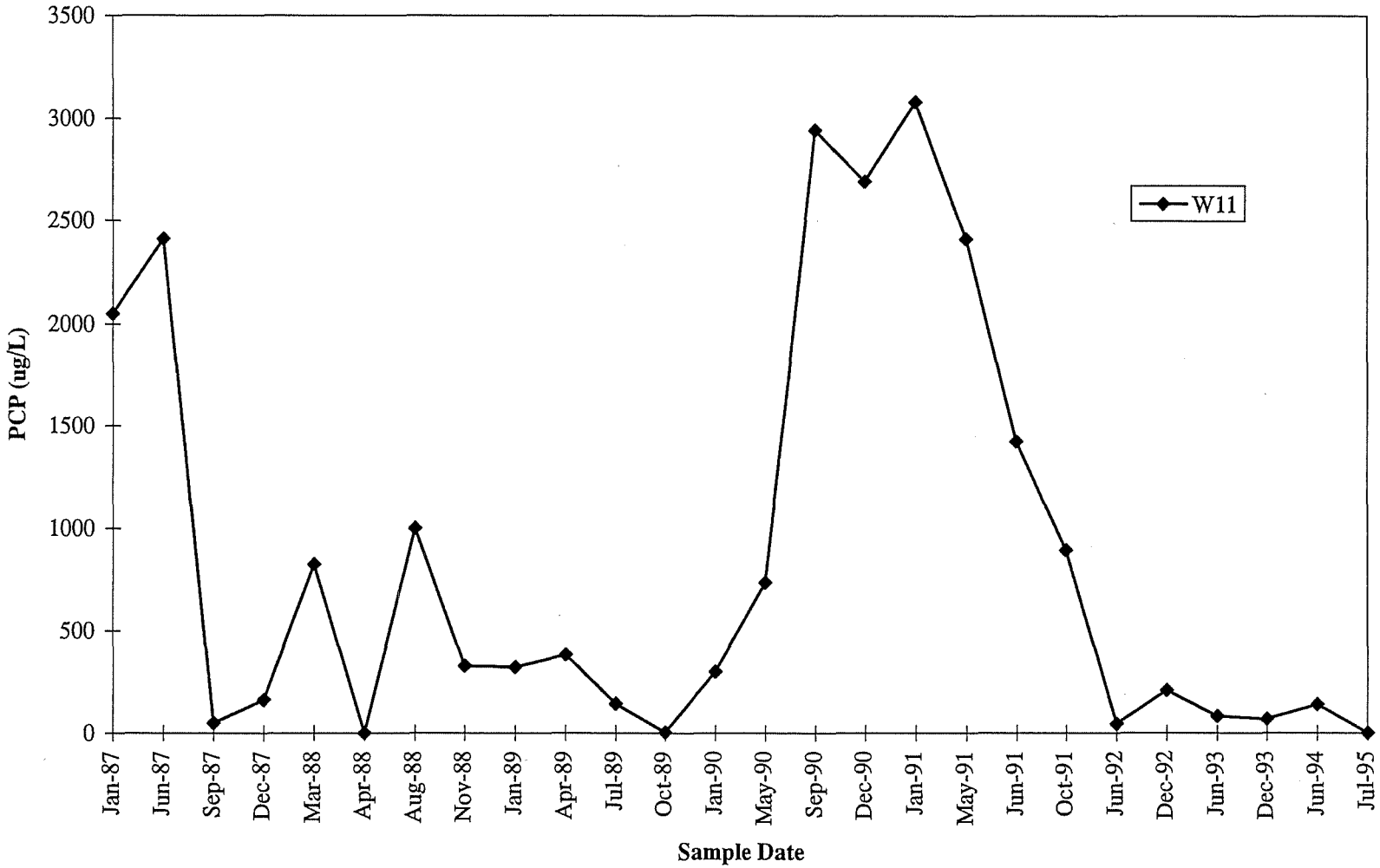
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



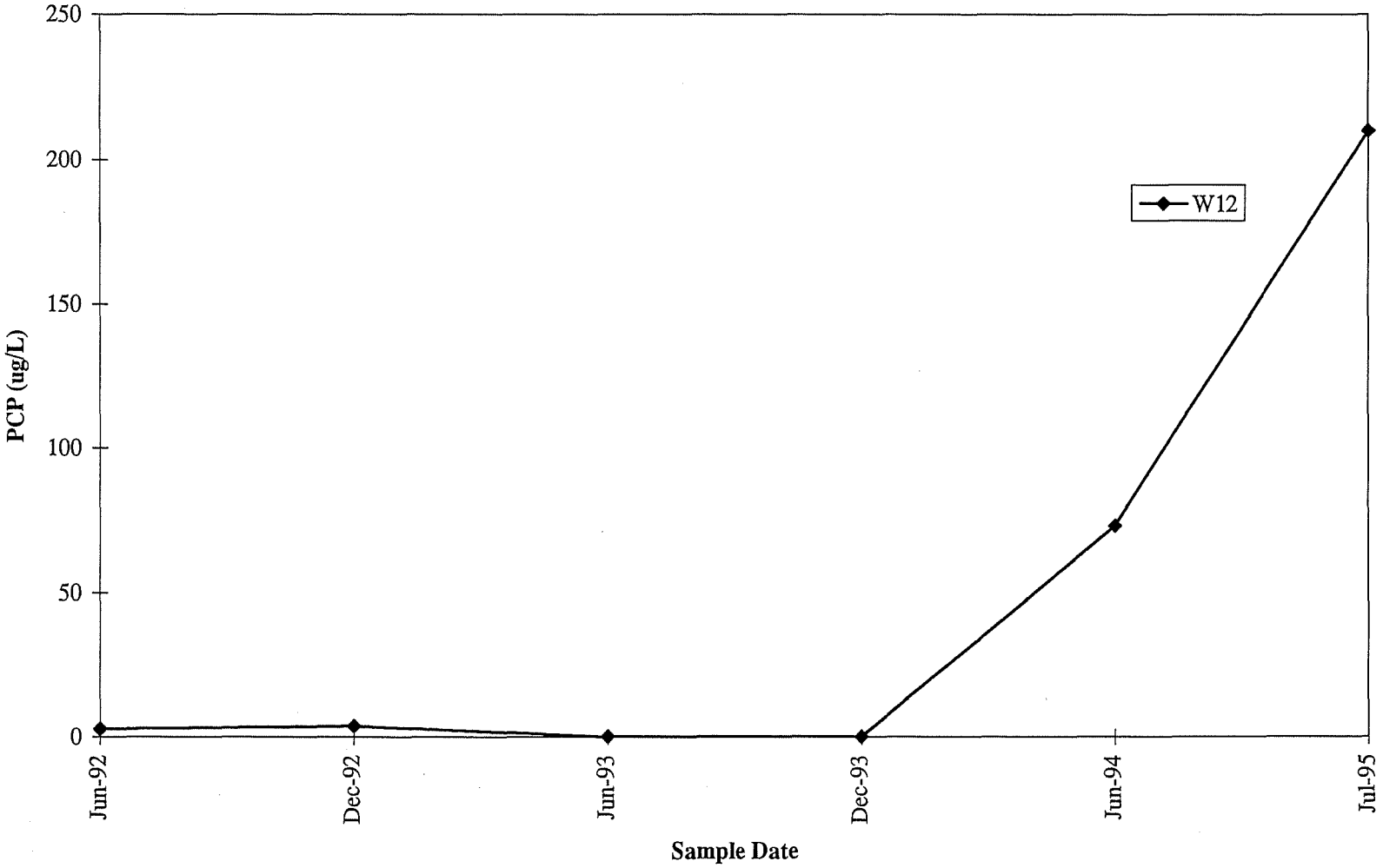
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



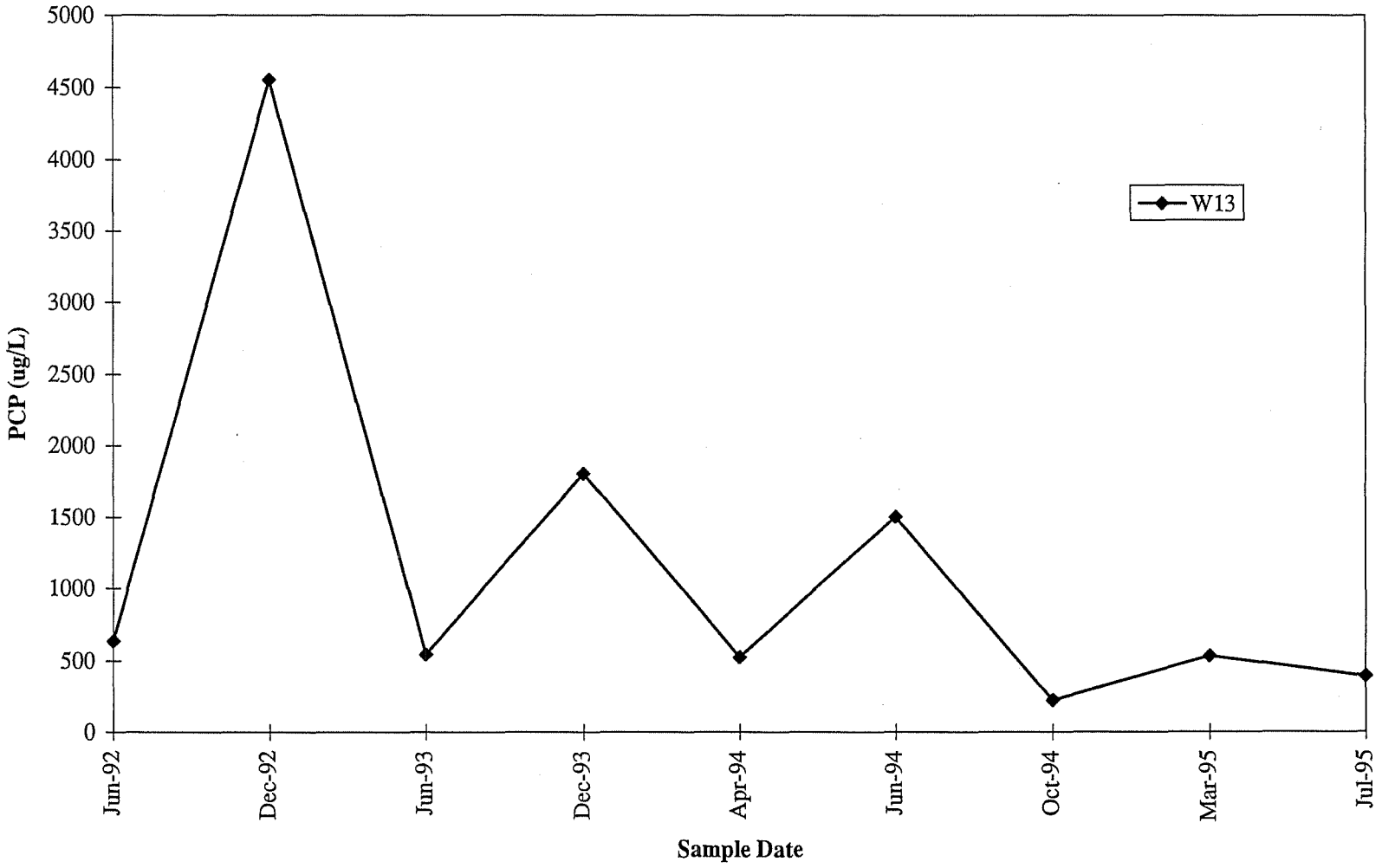
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



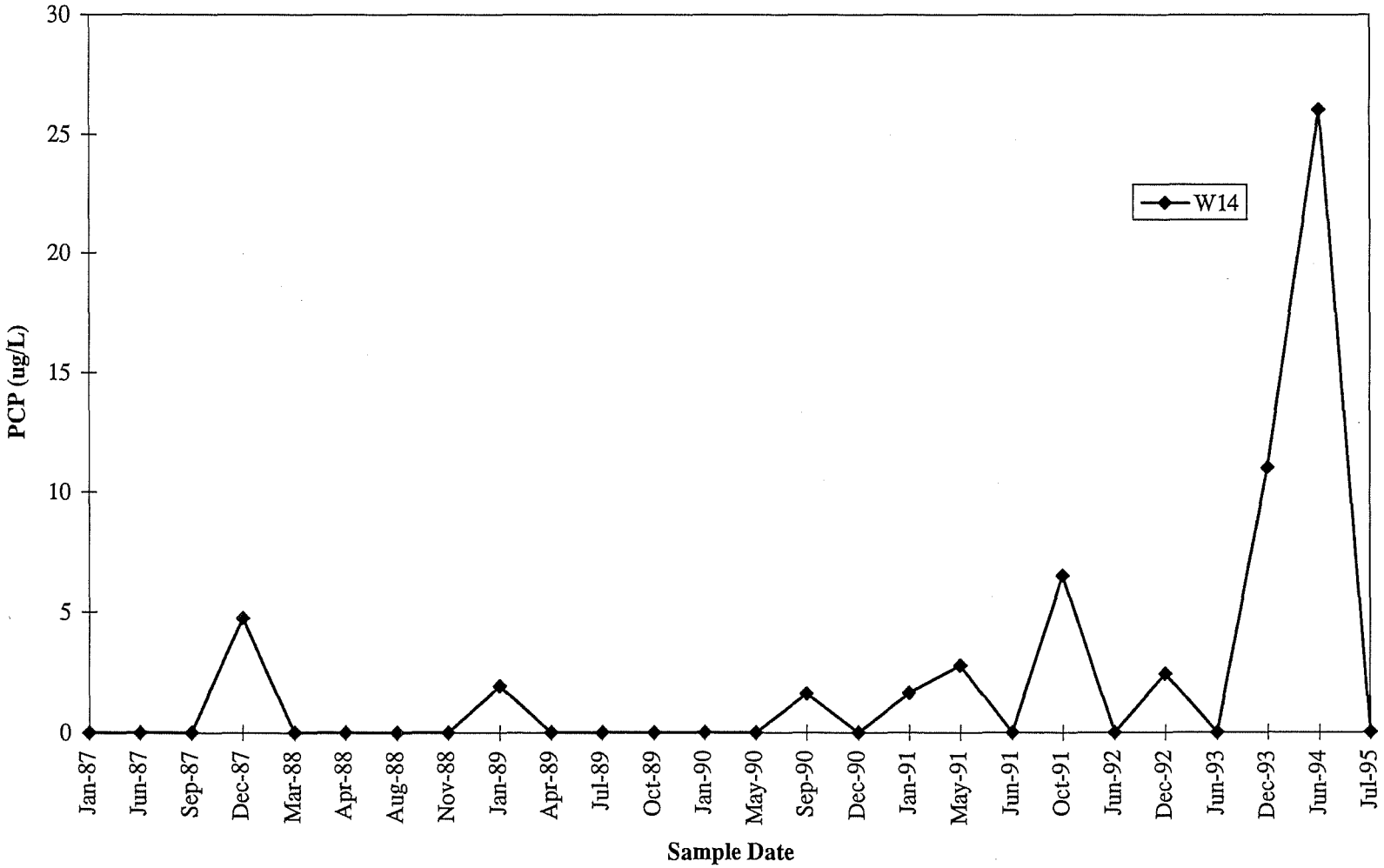
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



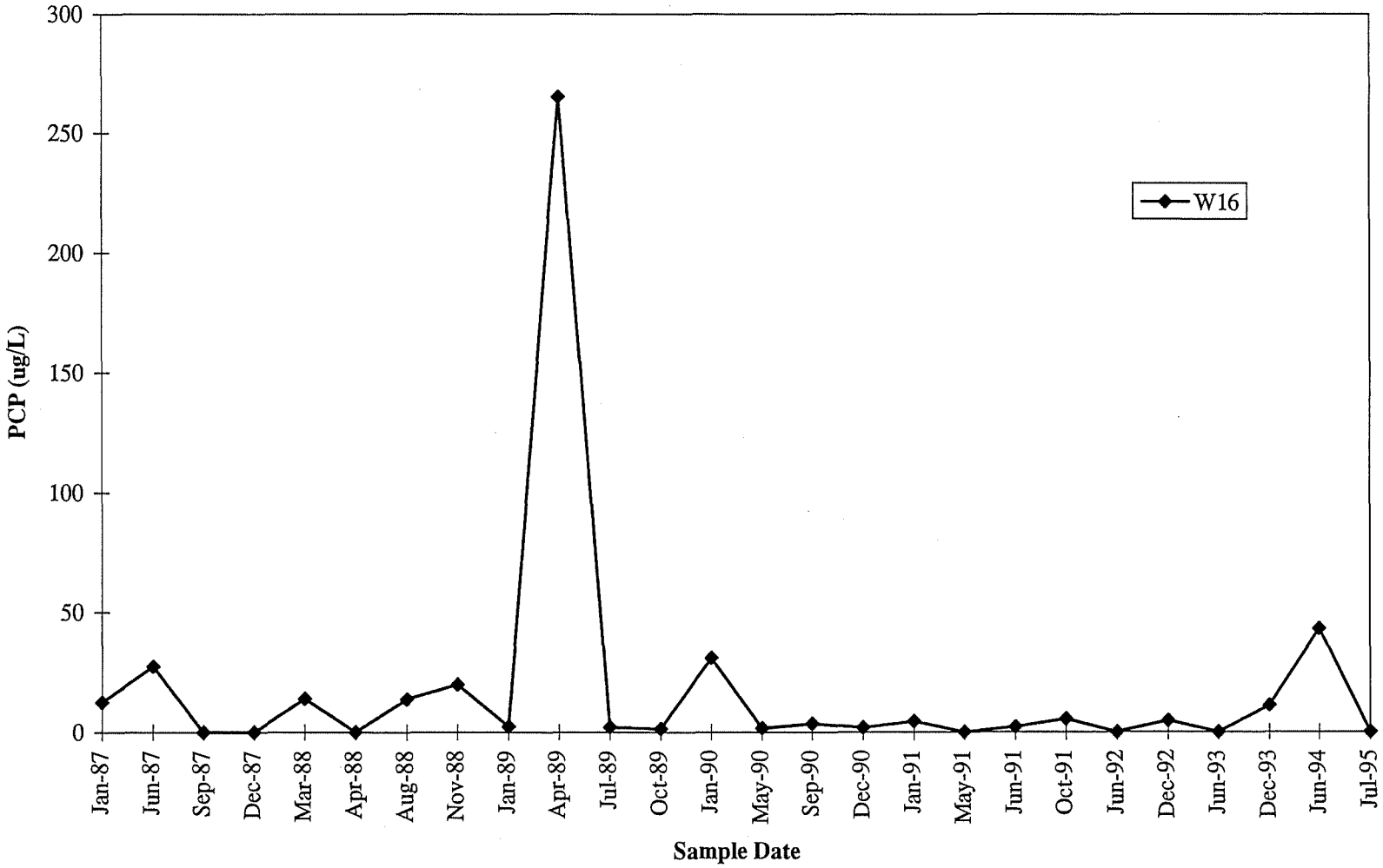
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



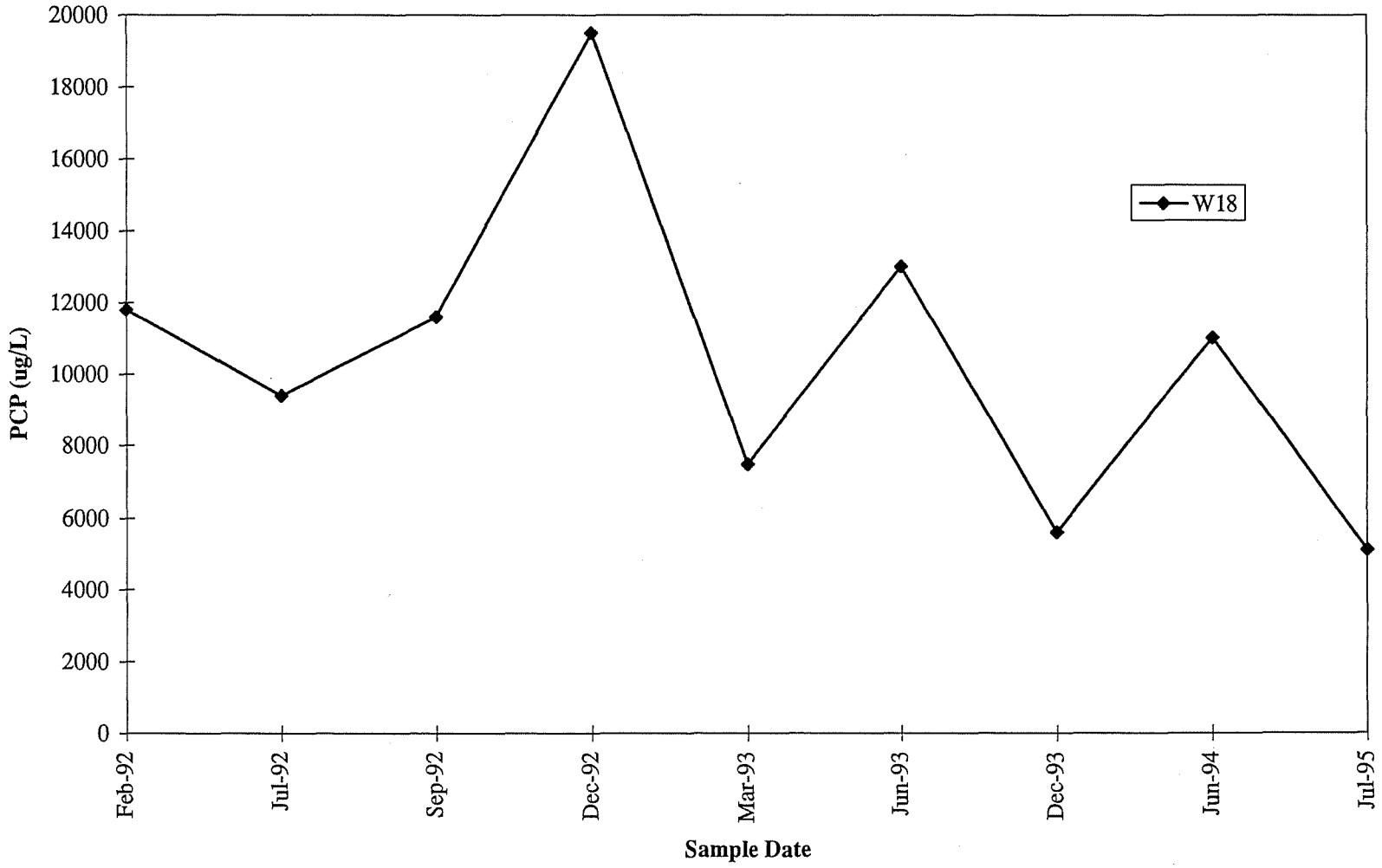
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



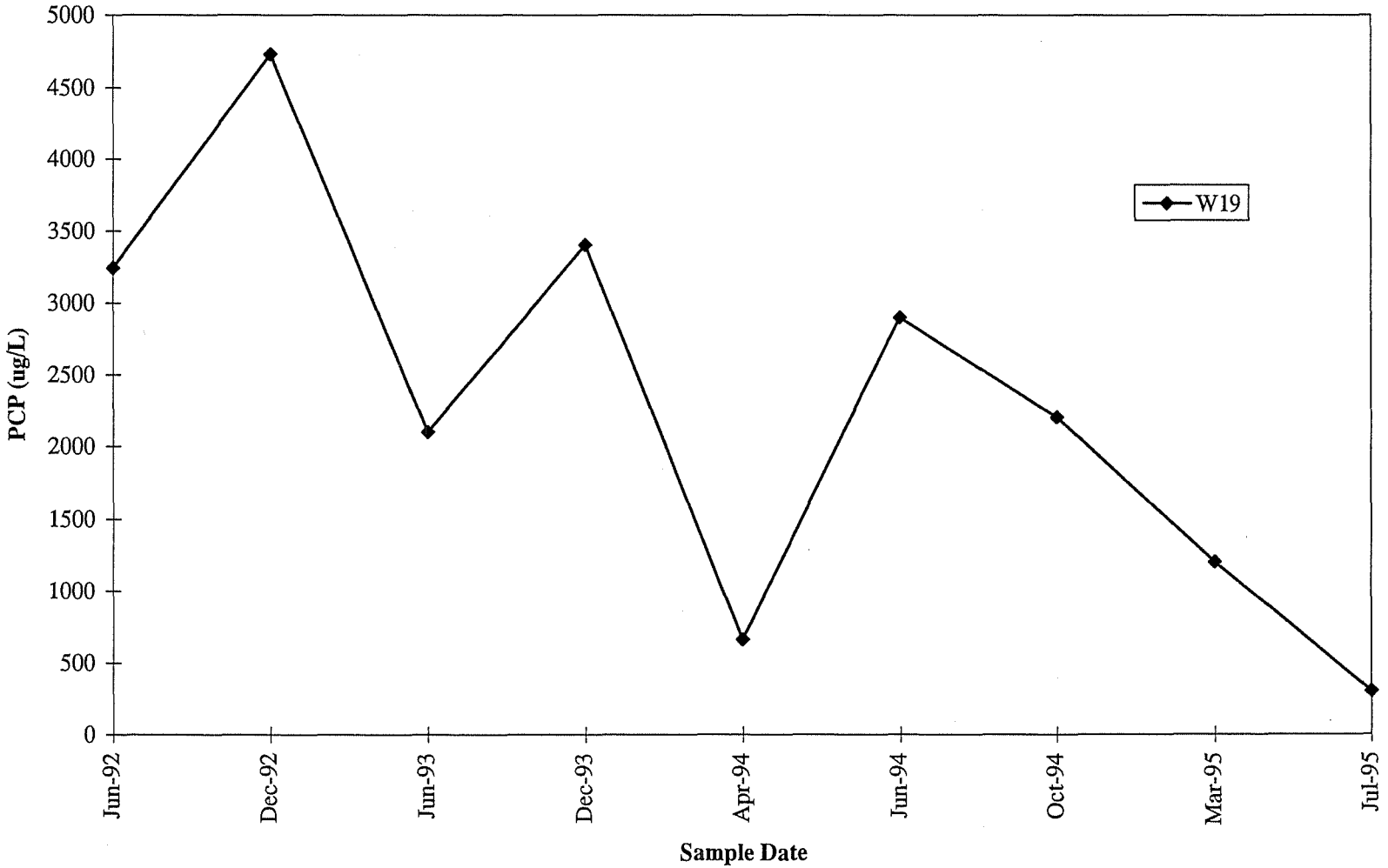
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



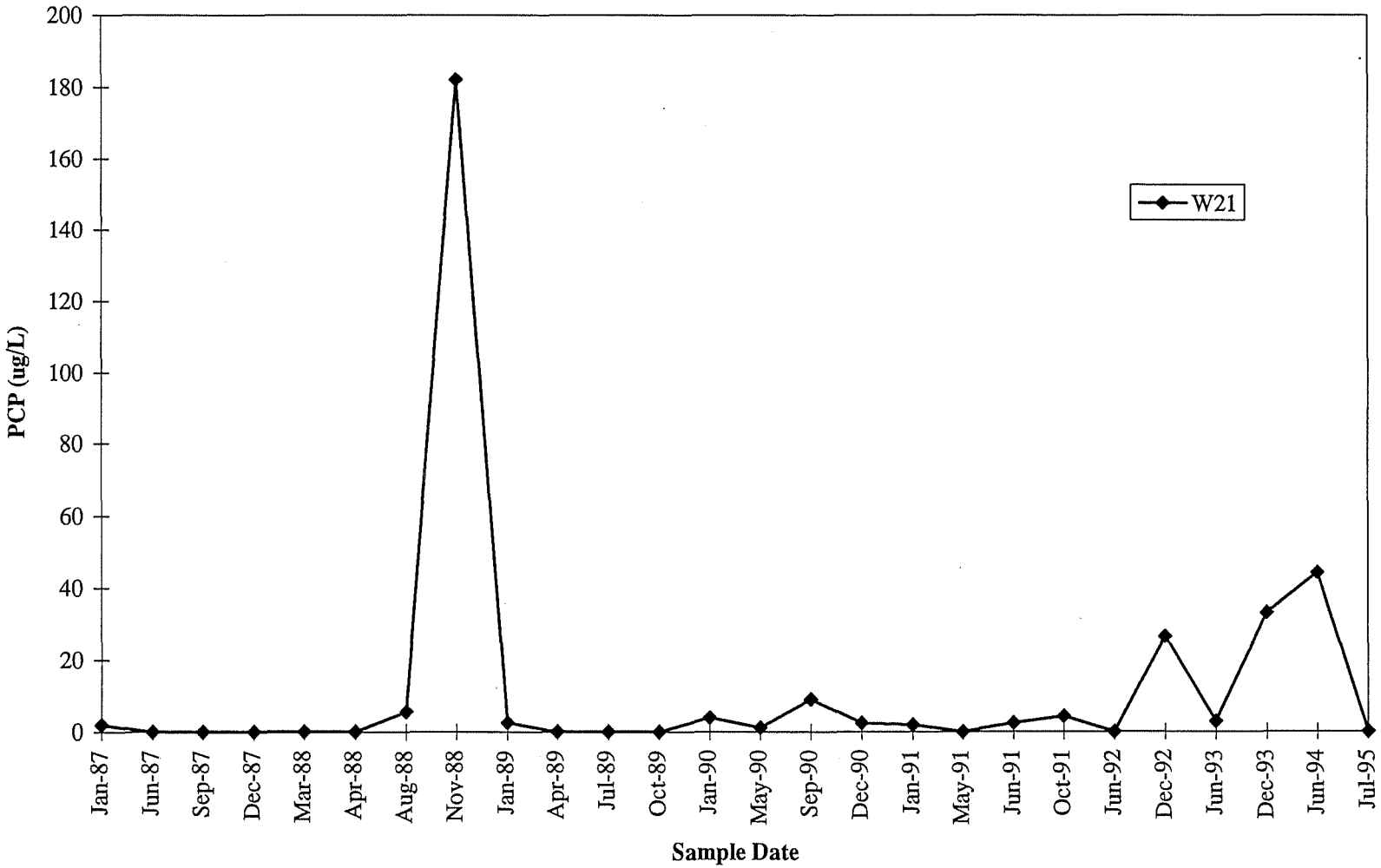
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



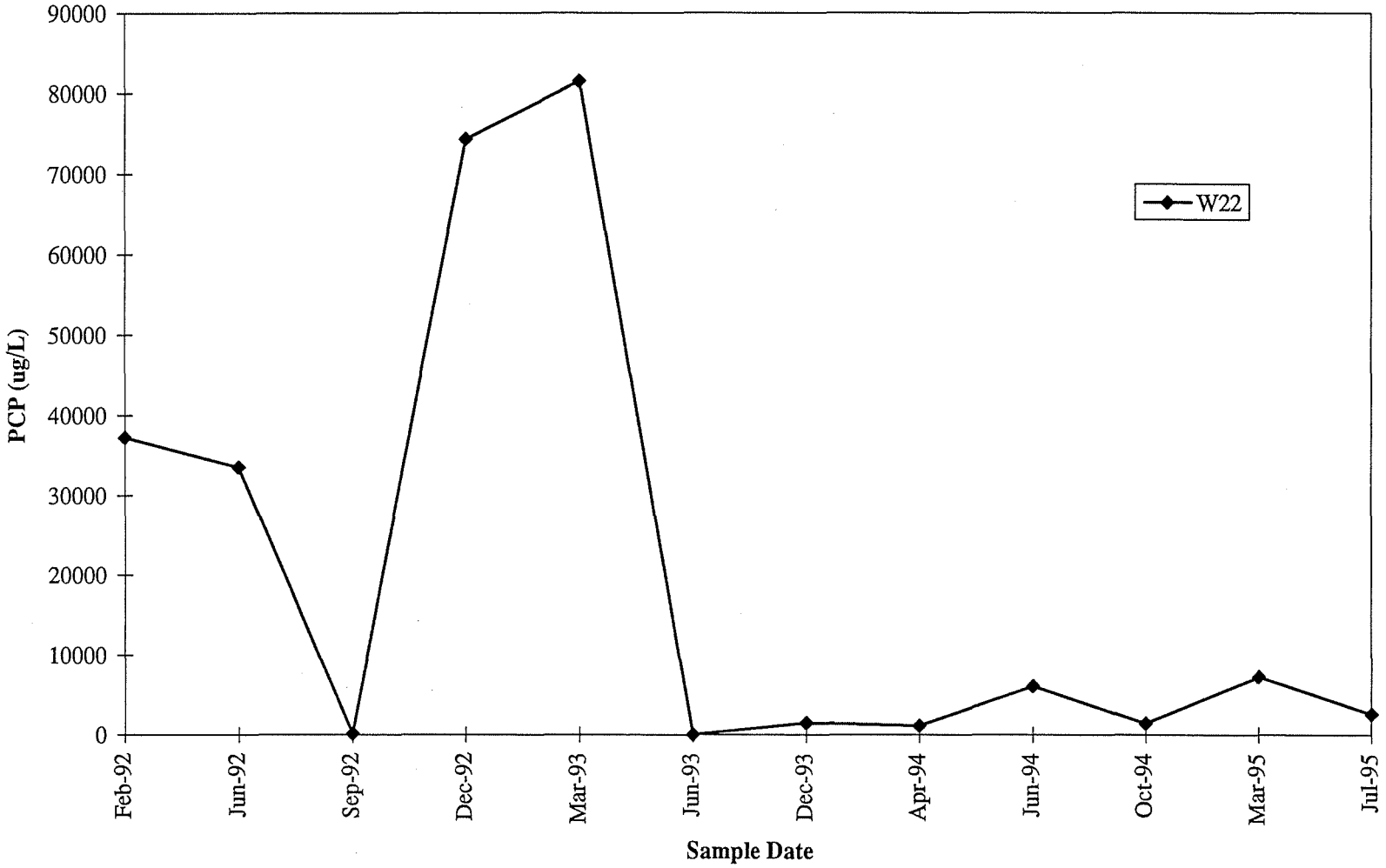
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



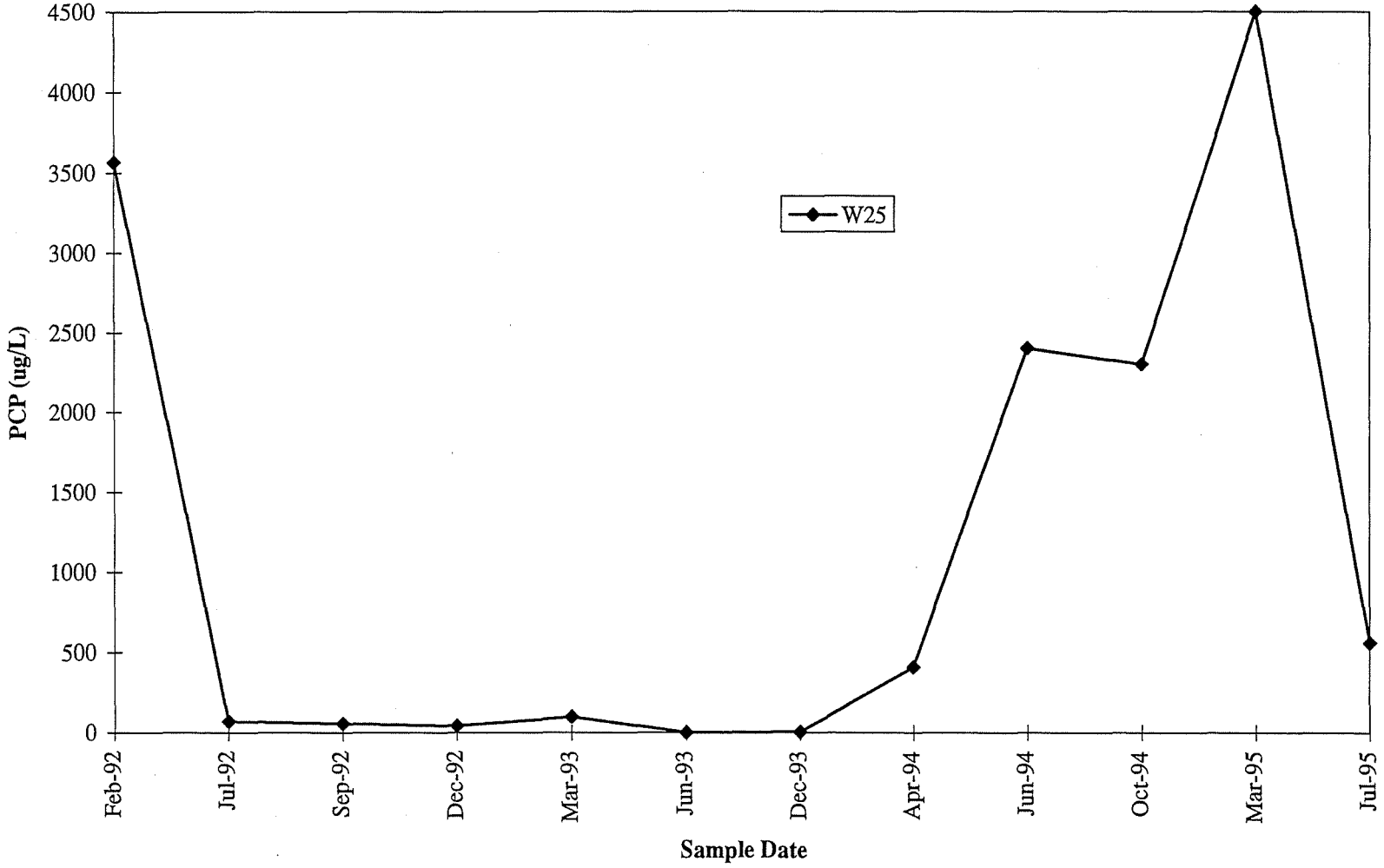
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



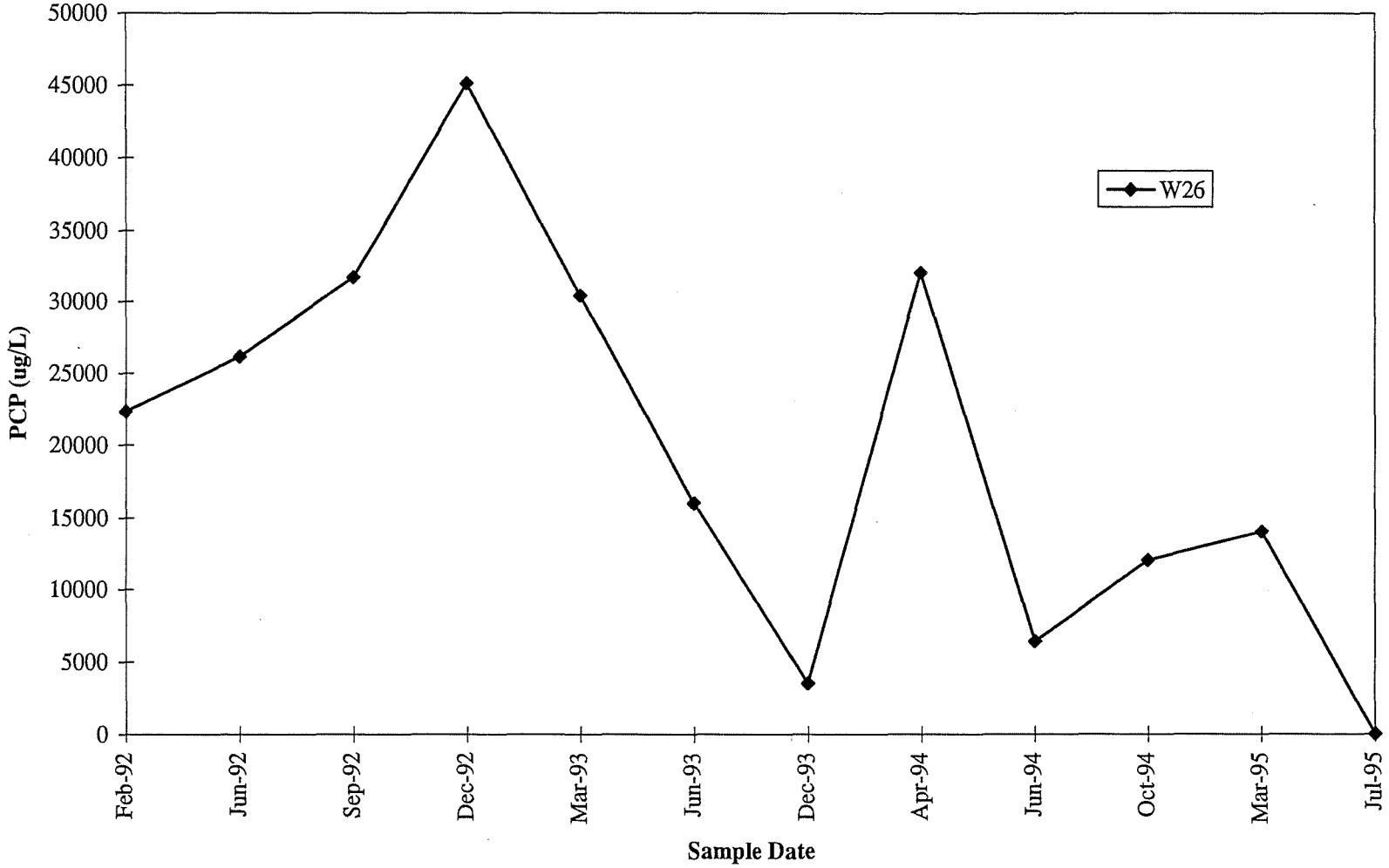
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



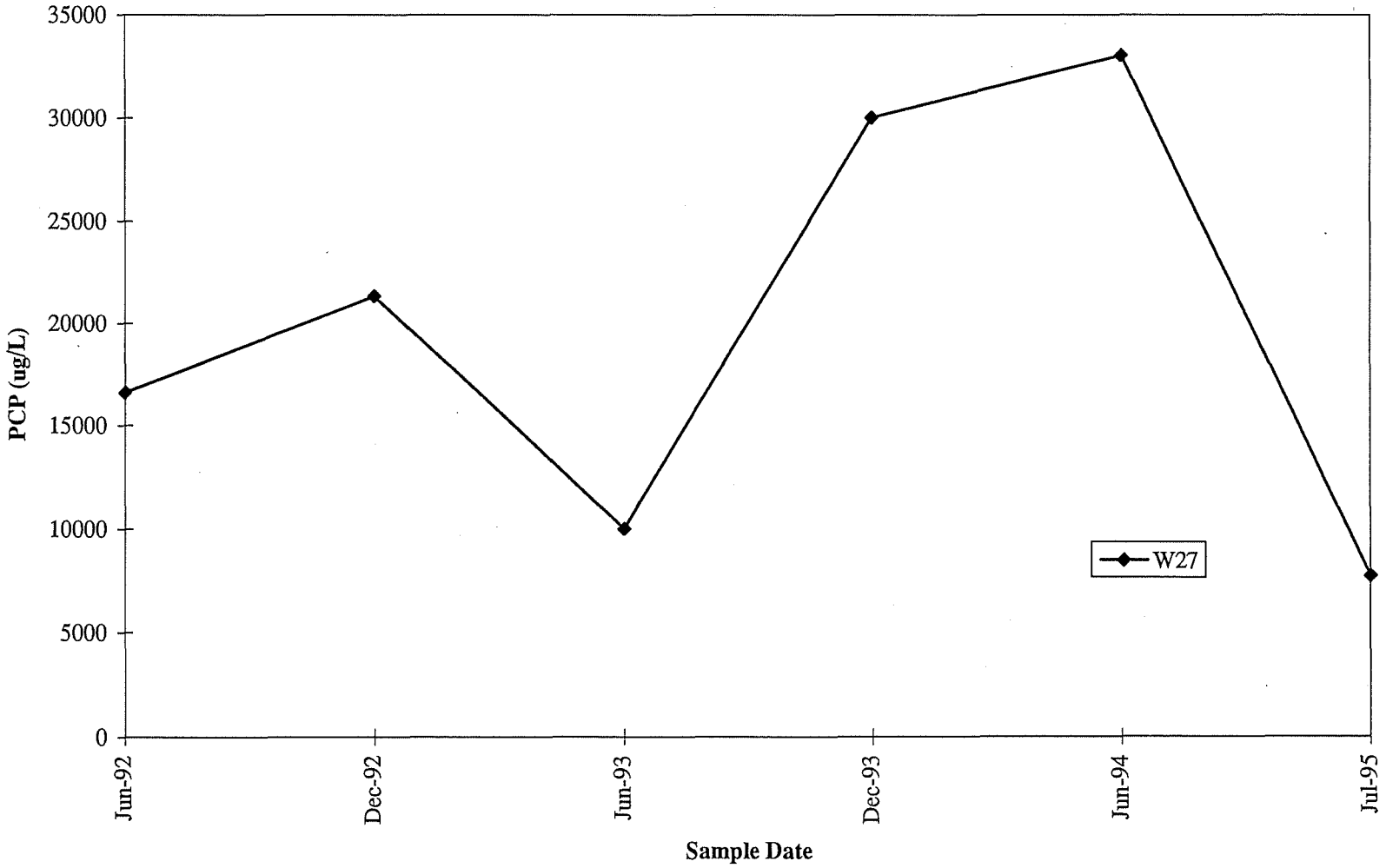
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8/24/95

Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



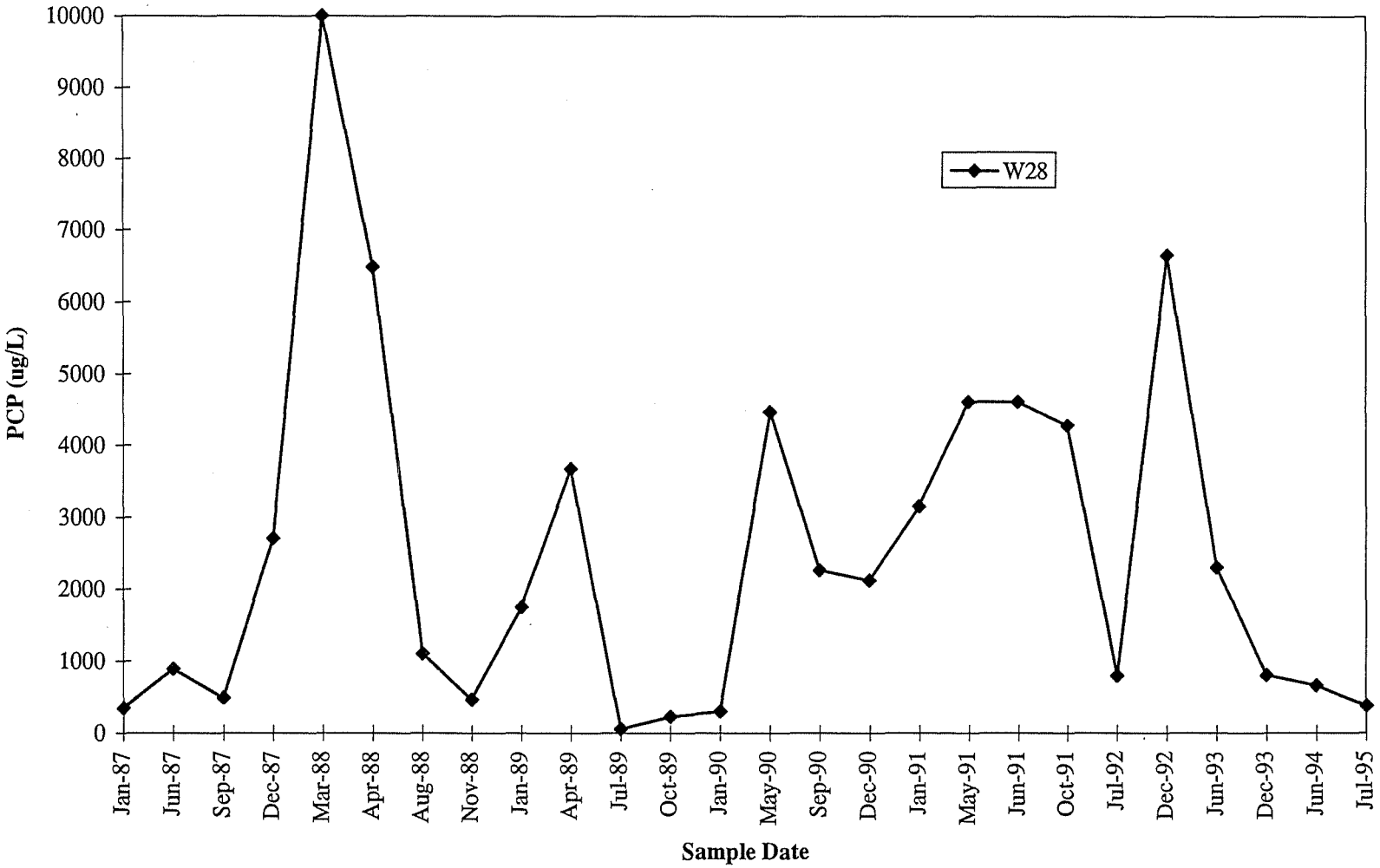
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



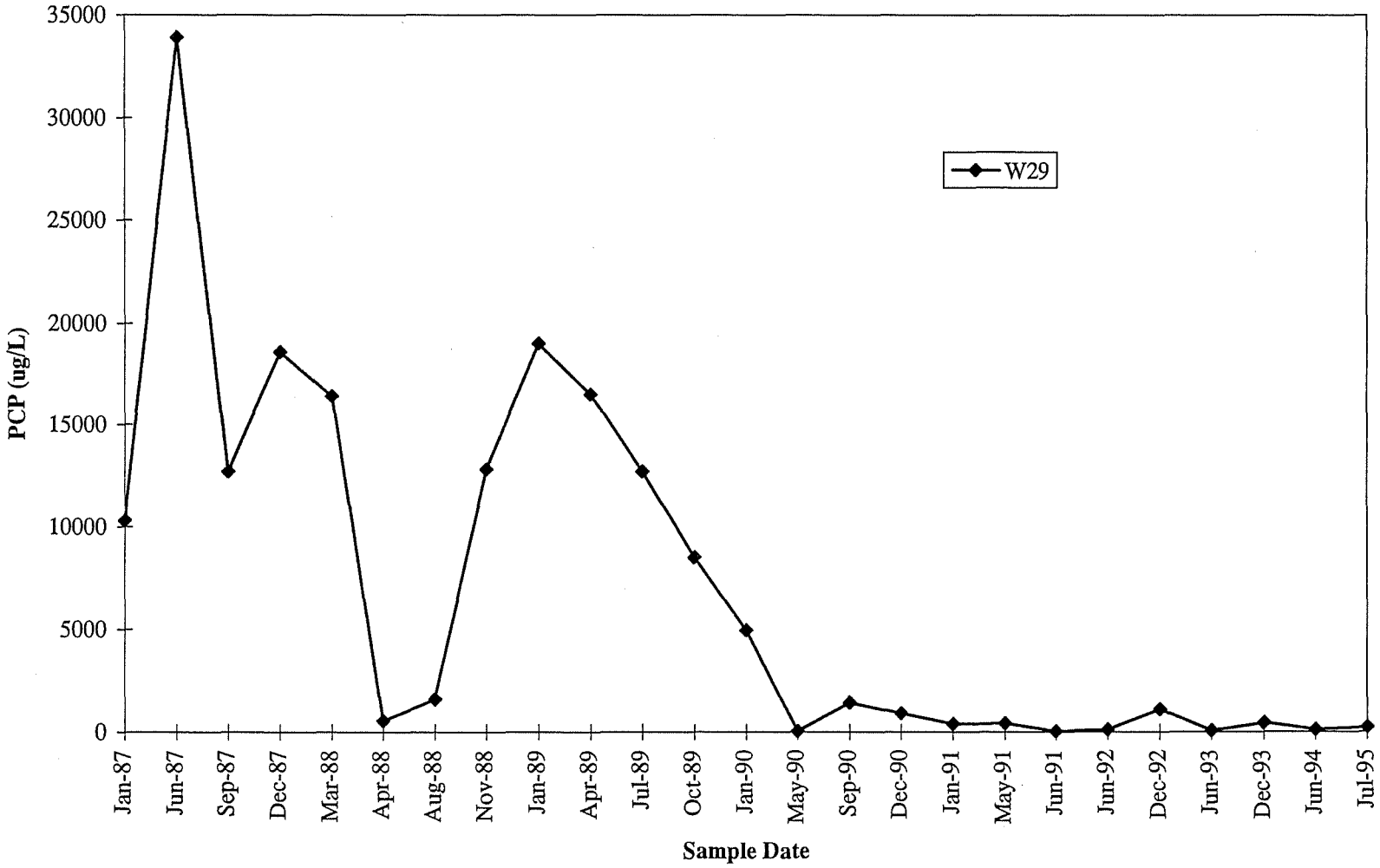
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



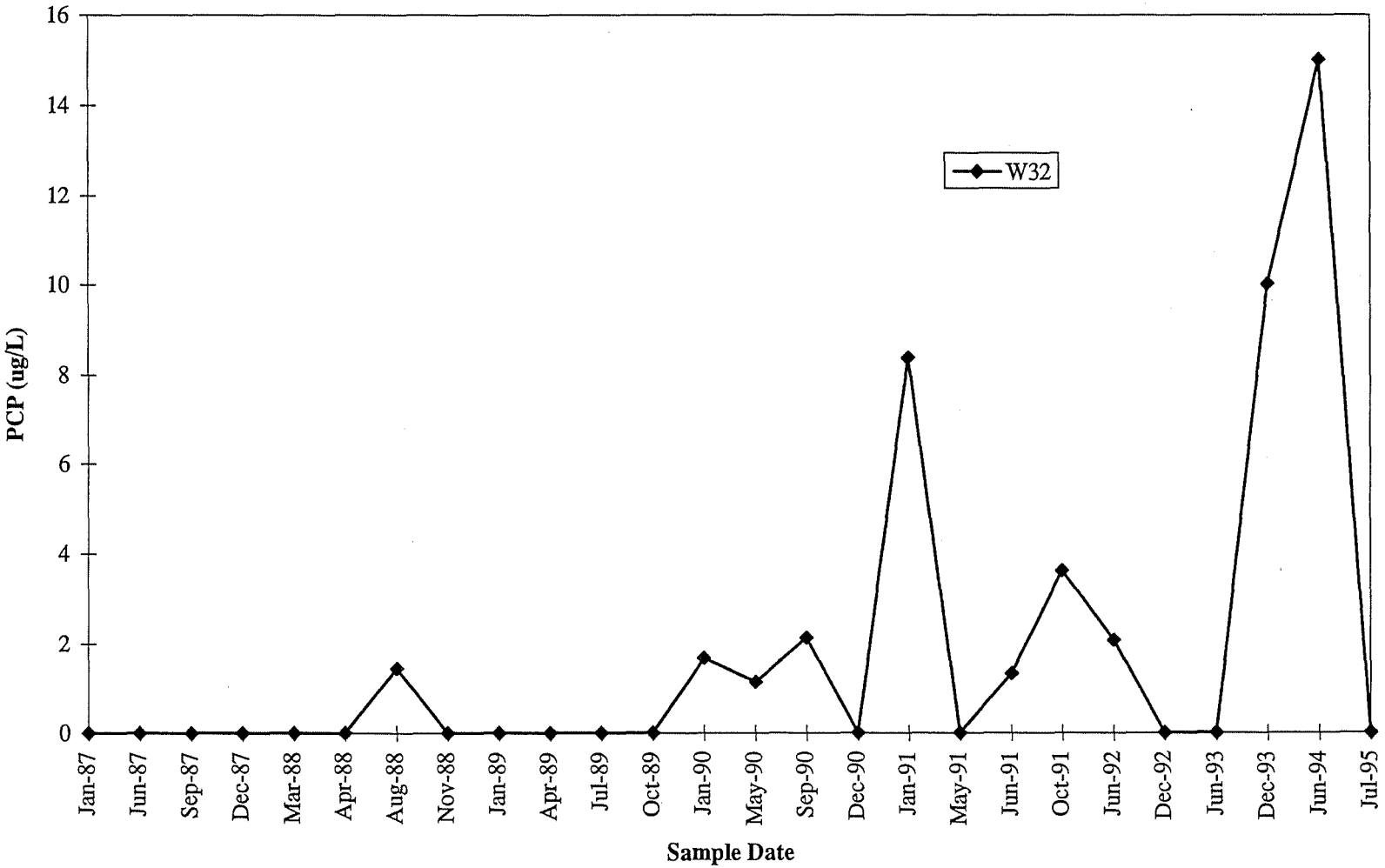
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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



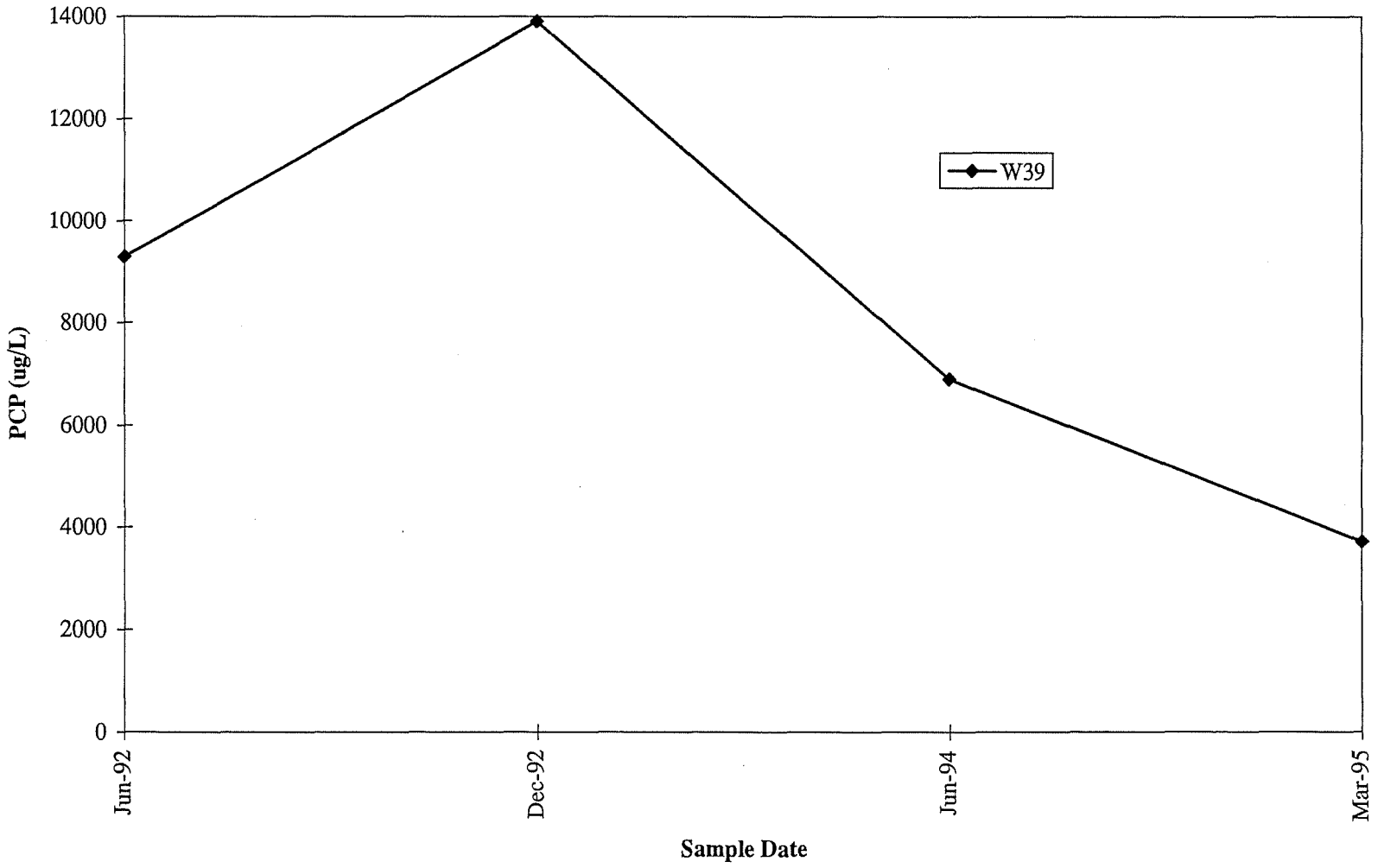
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8/24/95

Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



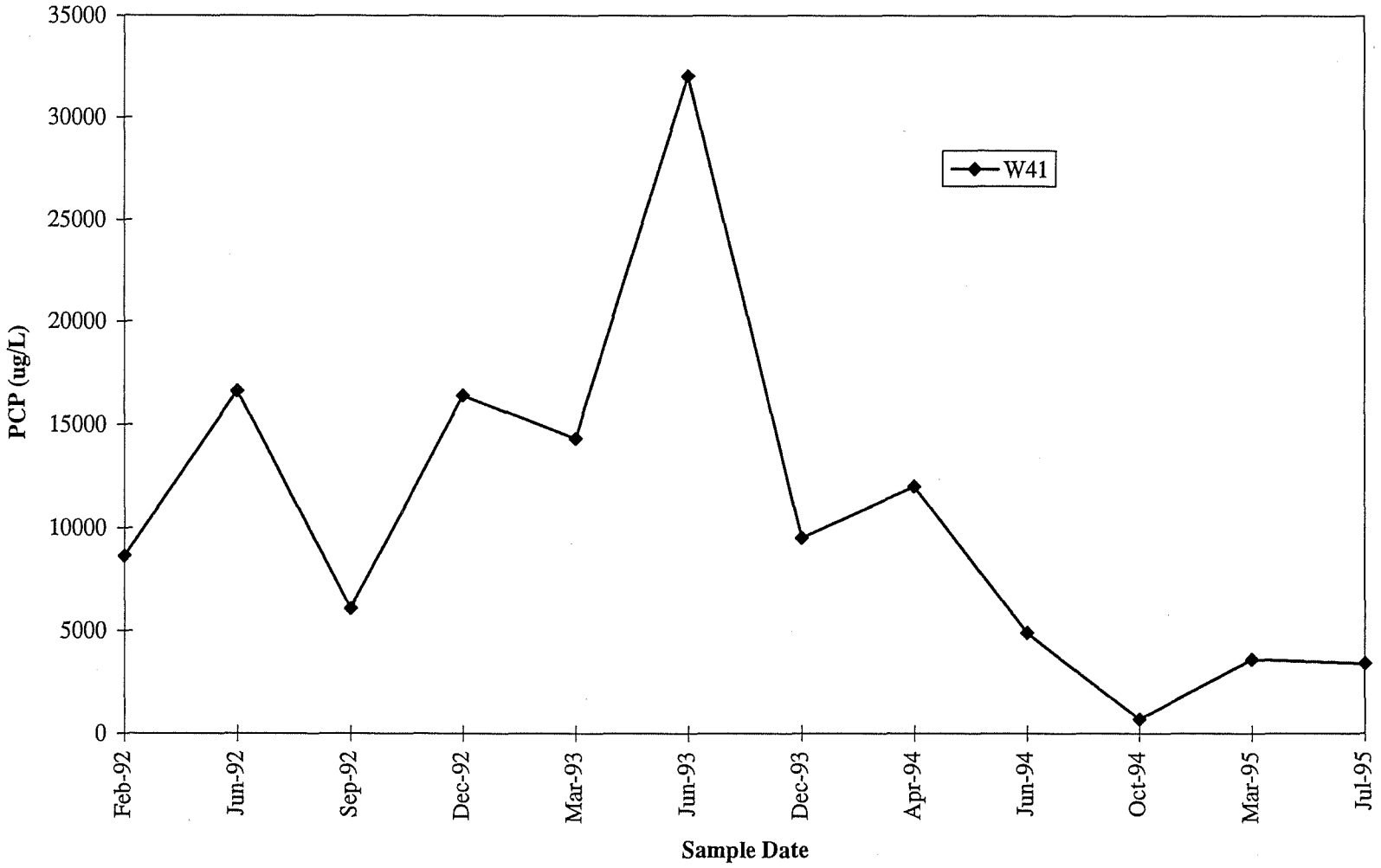
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8/24/95

Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



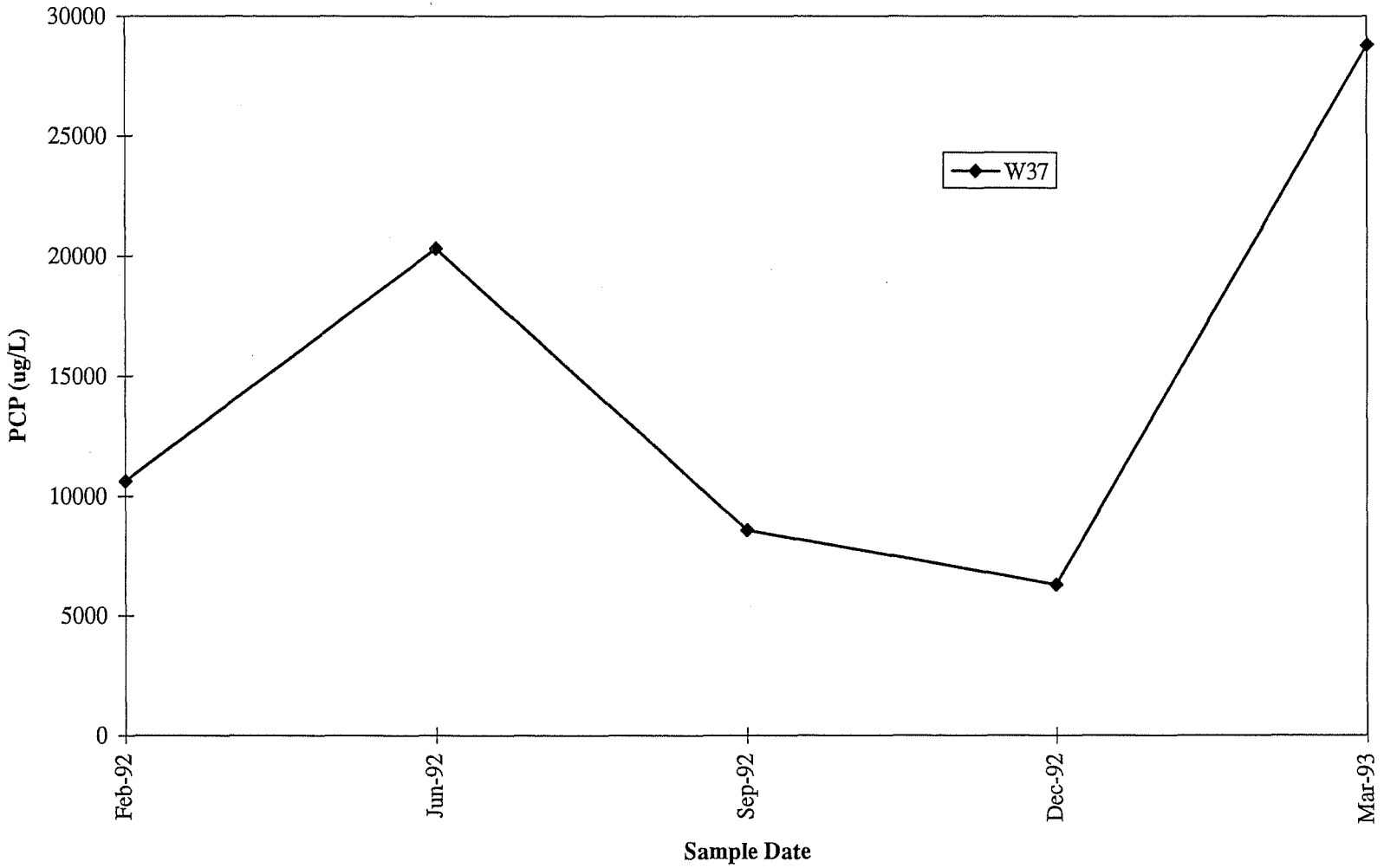
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8/24/95

Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



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Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring

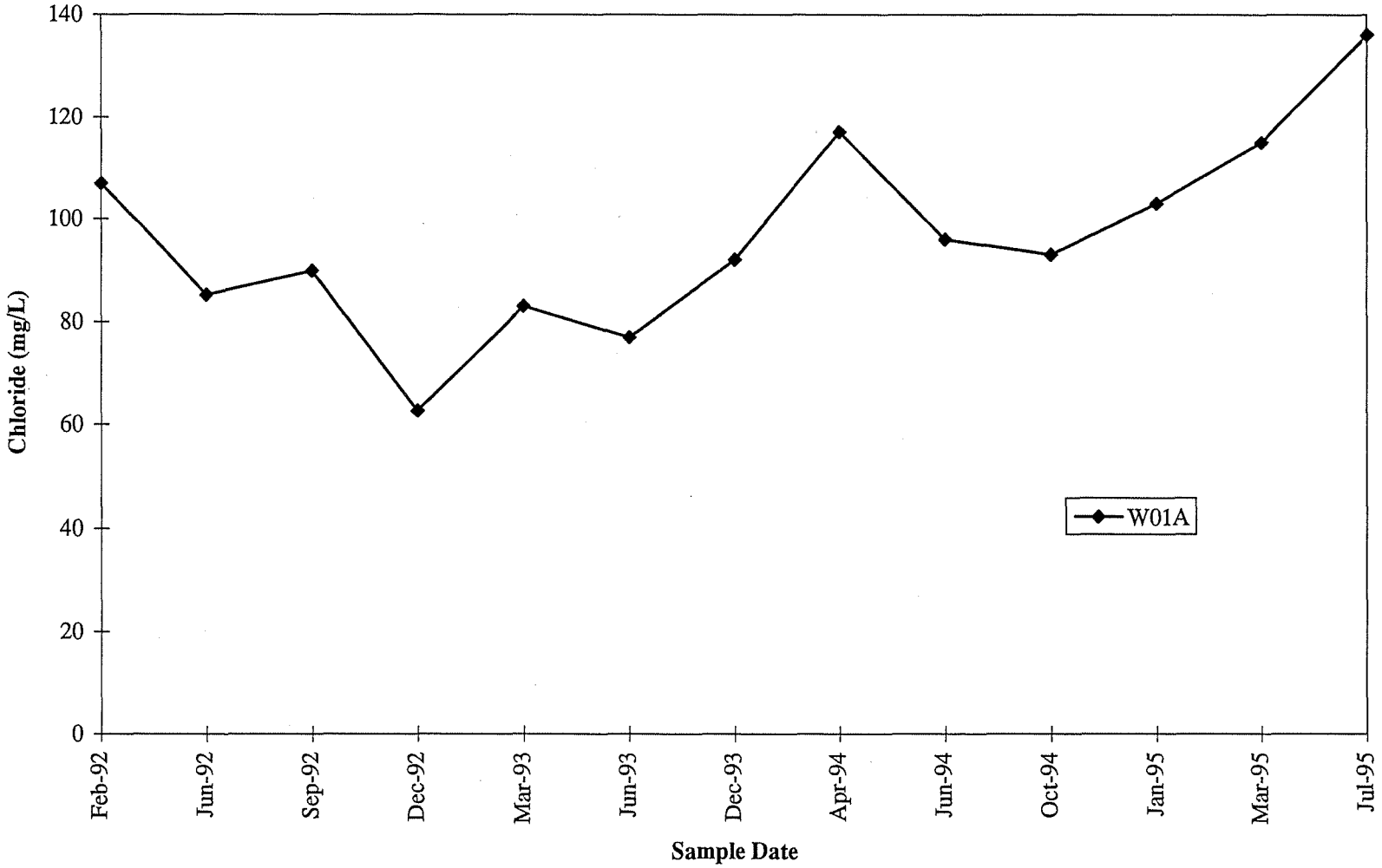


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B2

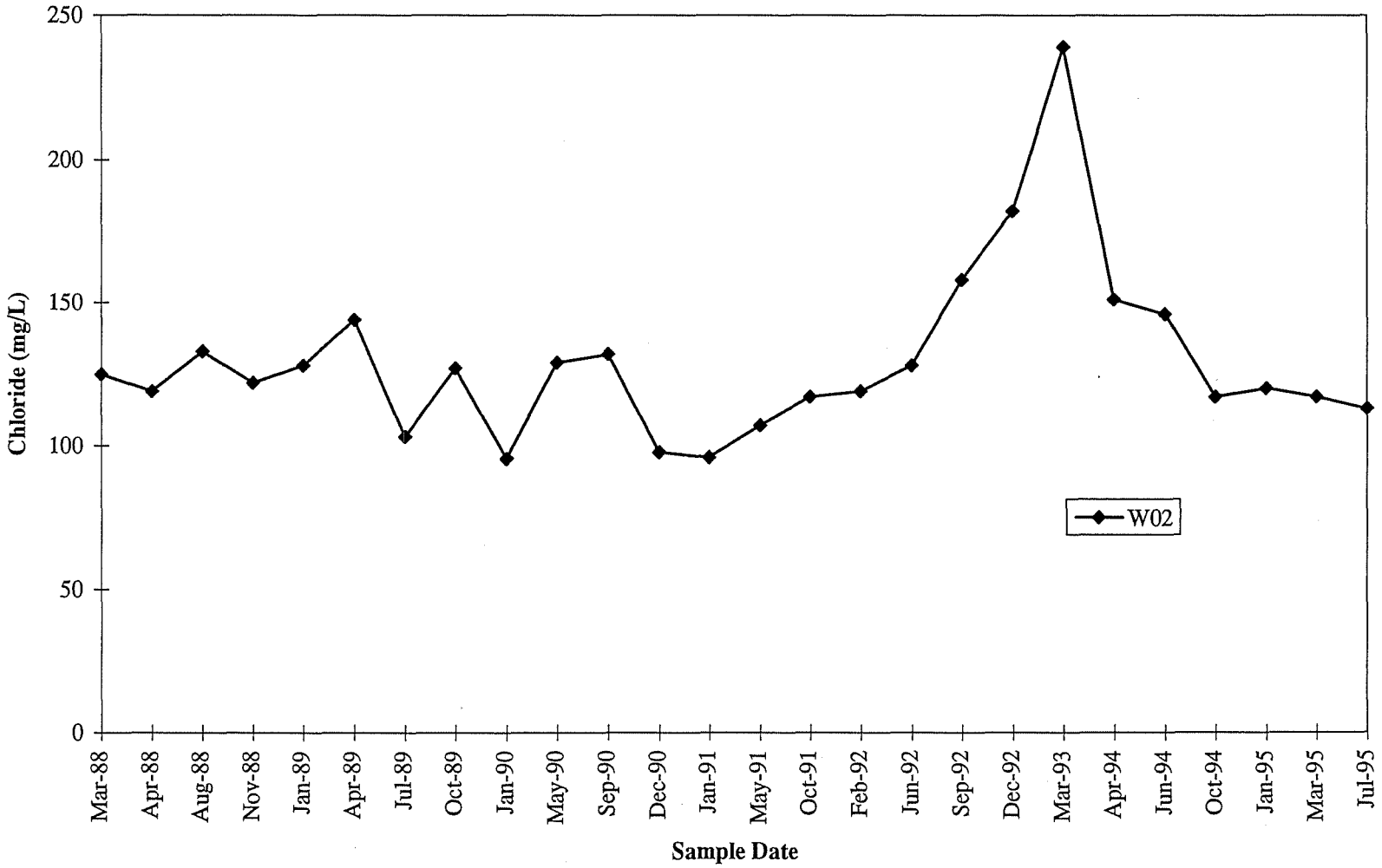
CHLORIDE TIME TRENDS

Chloride Concentrations
Quarterly Groundwater Monitoring



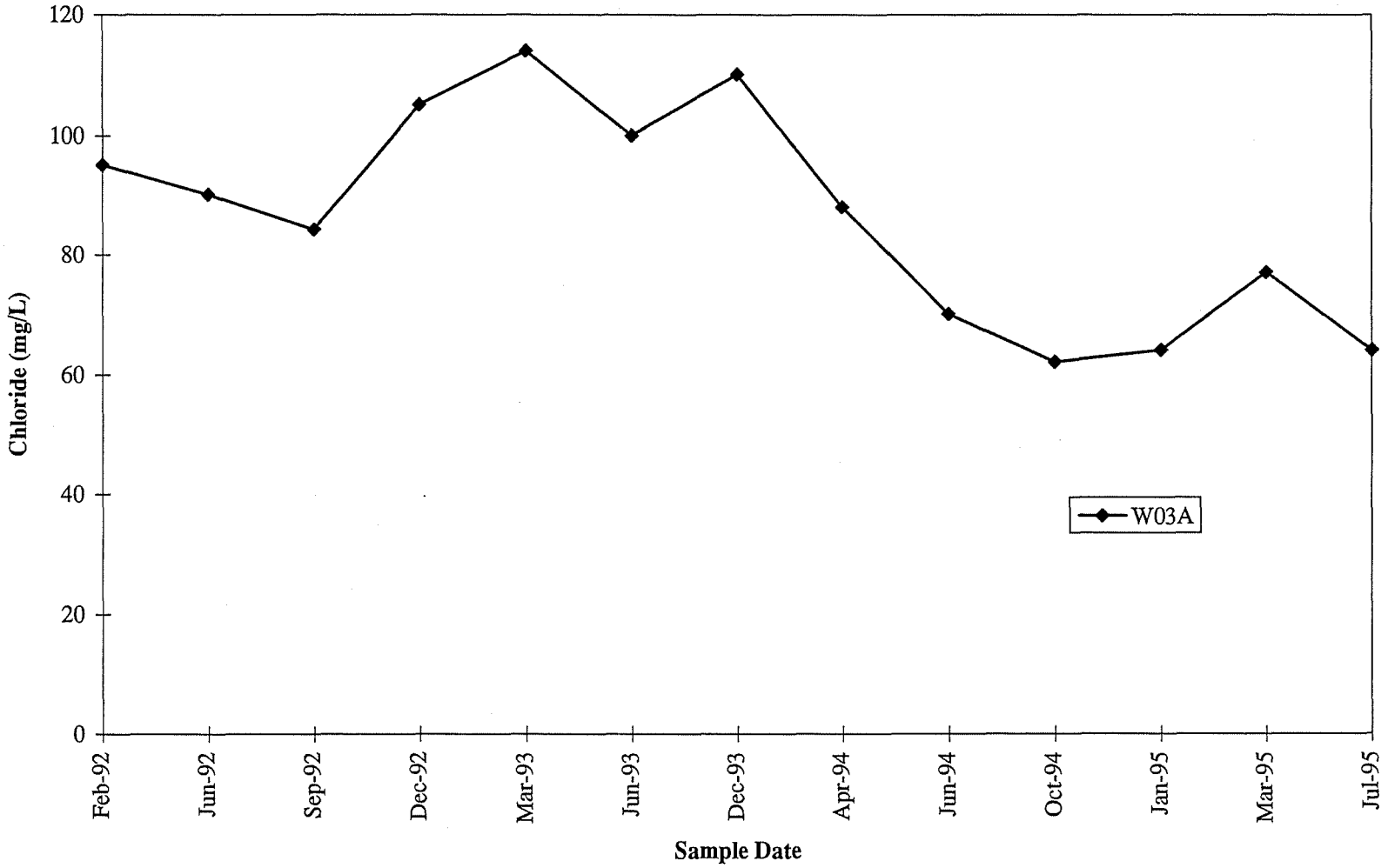
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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



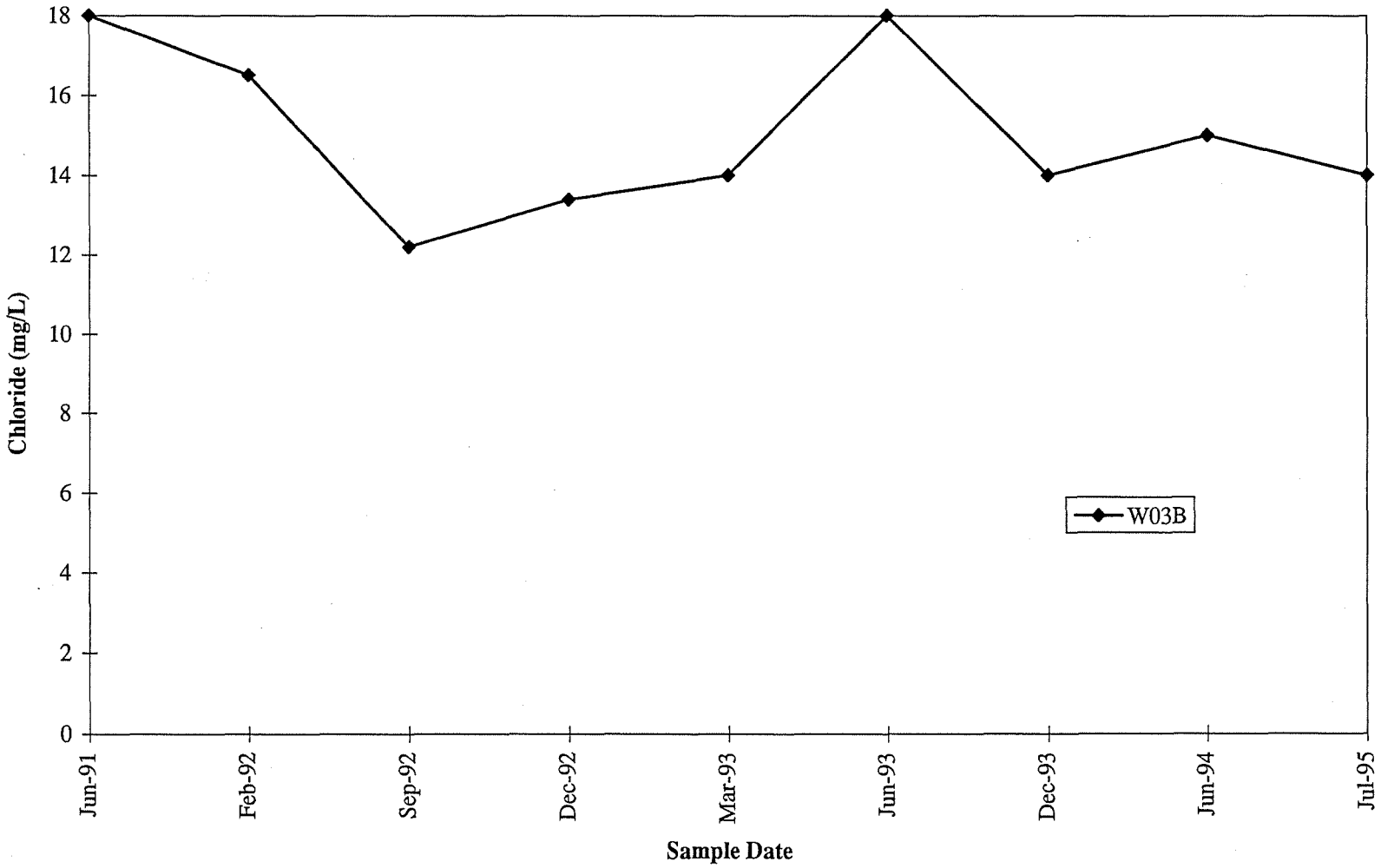
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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



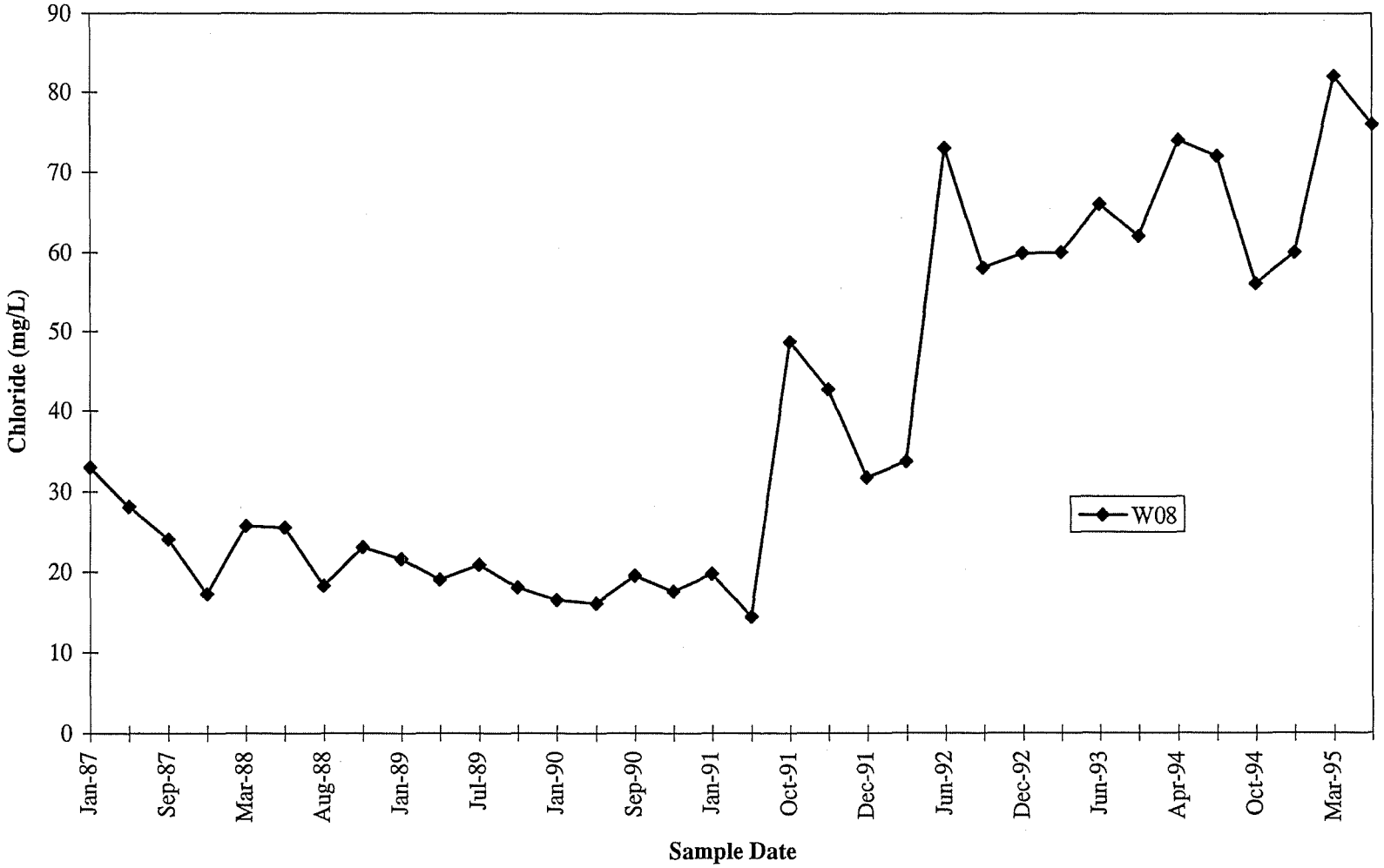
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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



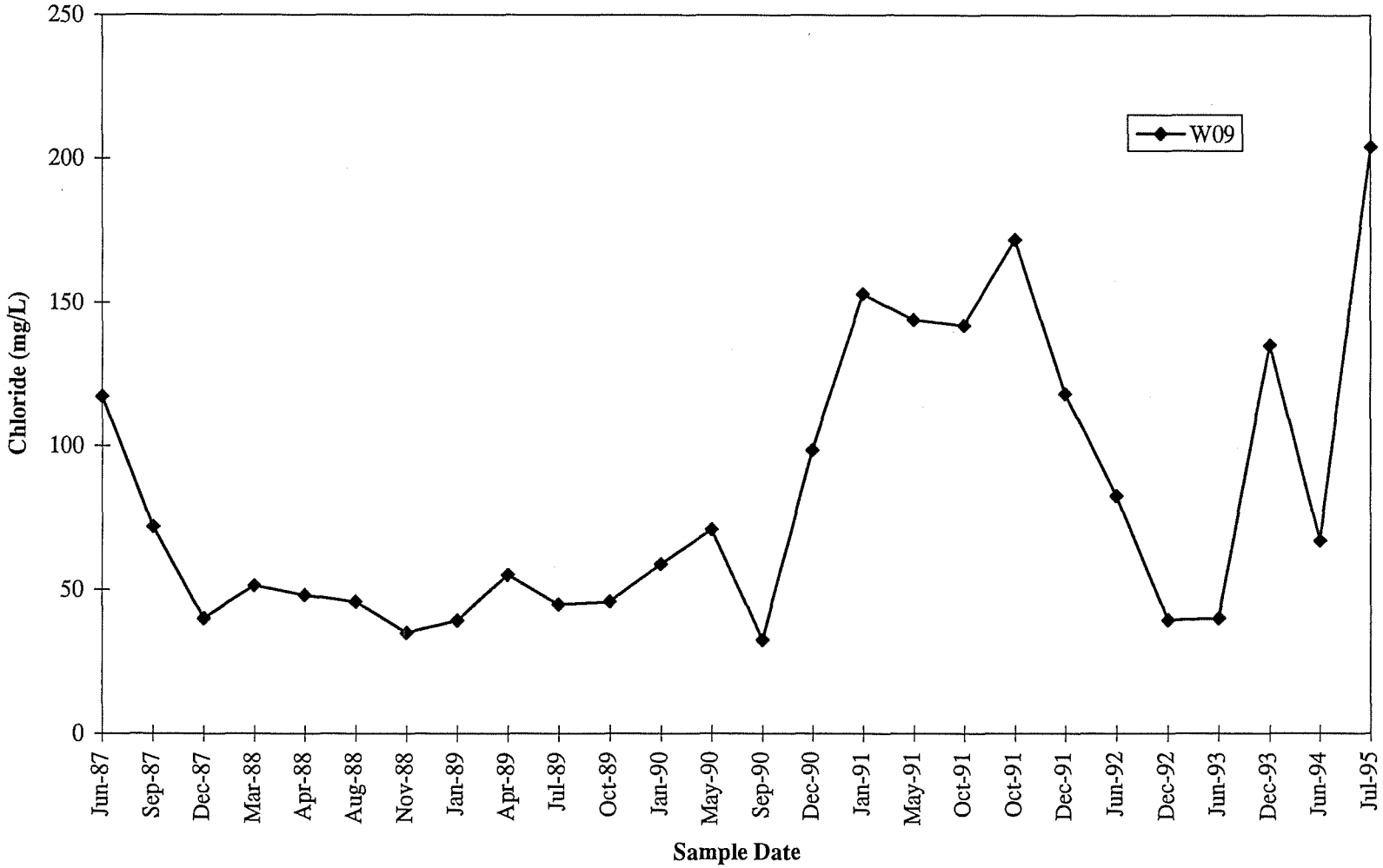
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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



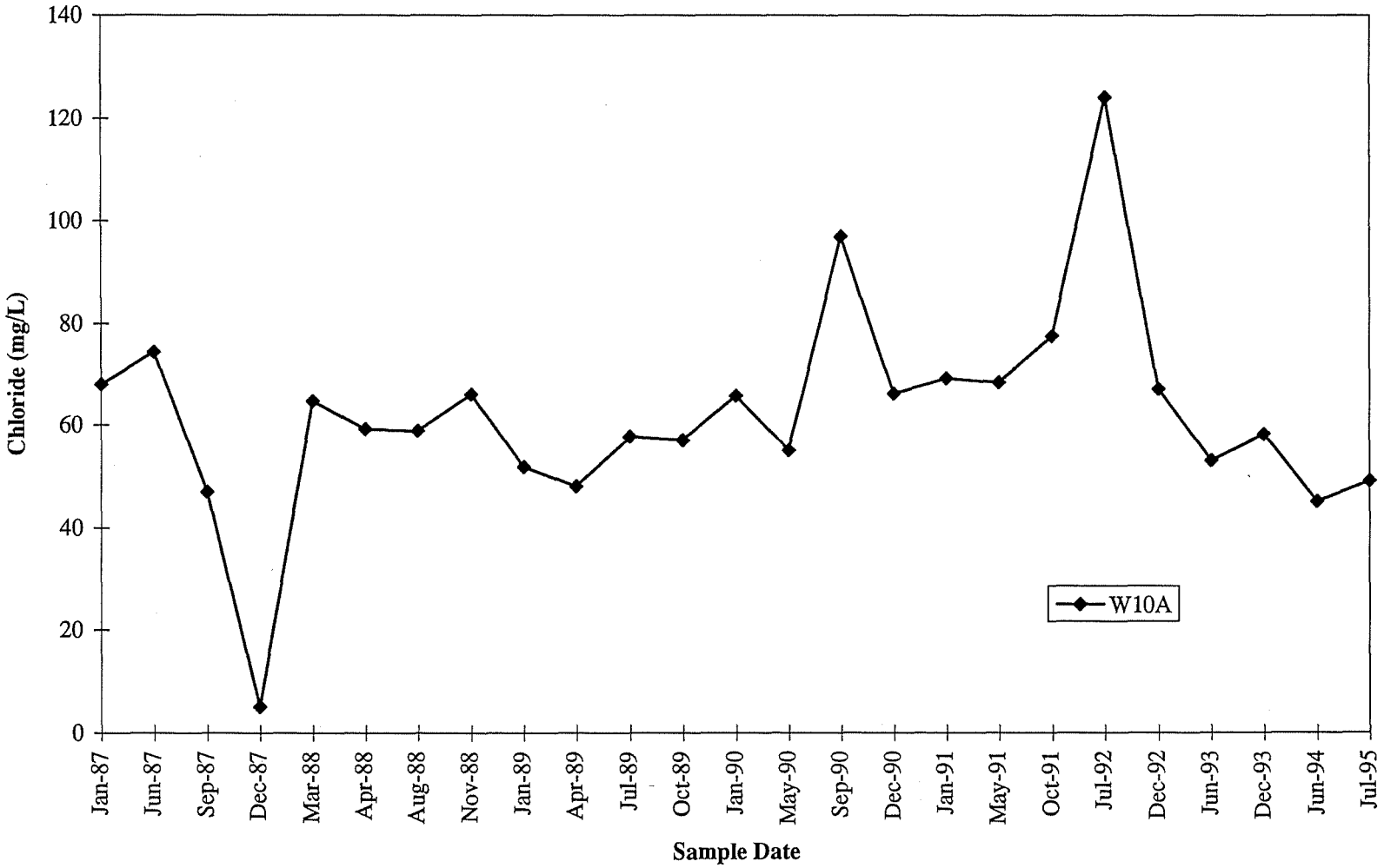
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Chloride Concentrations
Quarterly Groundwater Monitoring



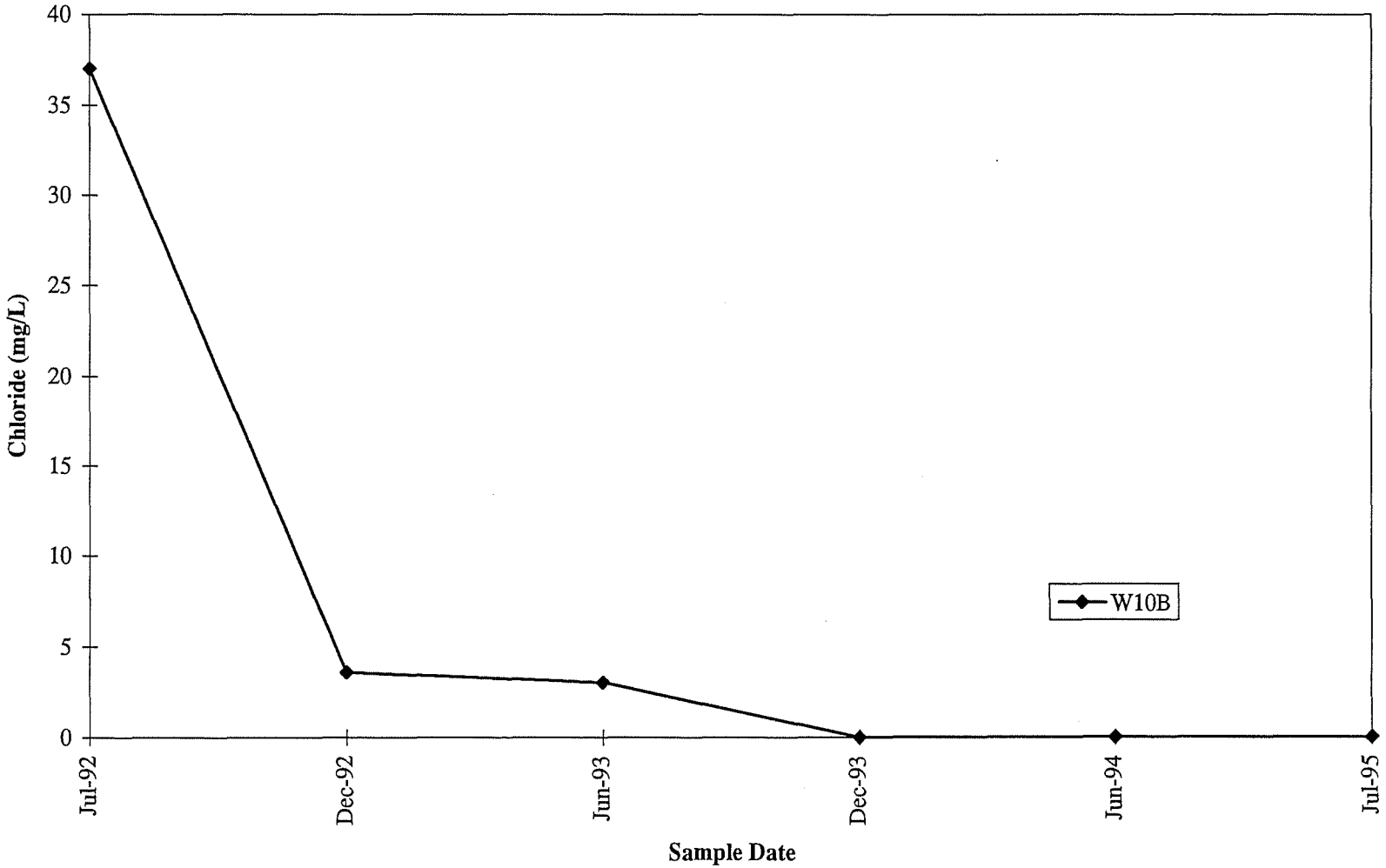
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Chloride Concentrations
Quarterly Groundwater Monitoring



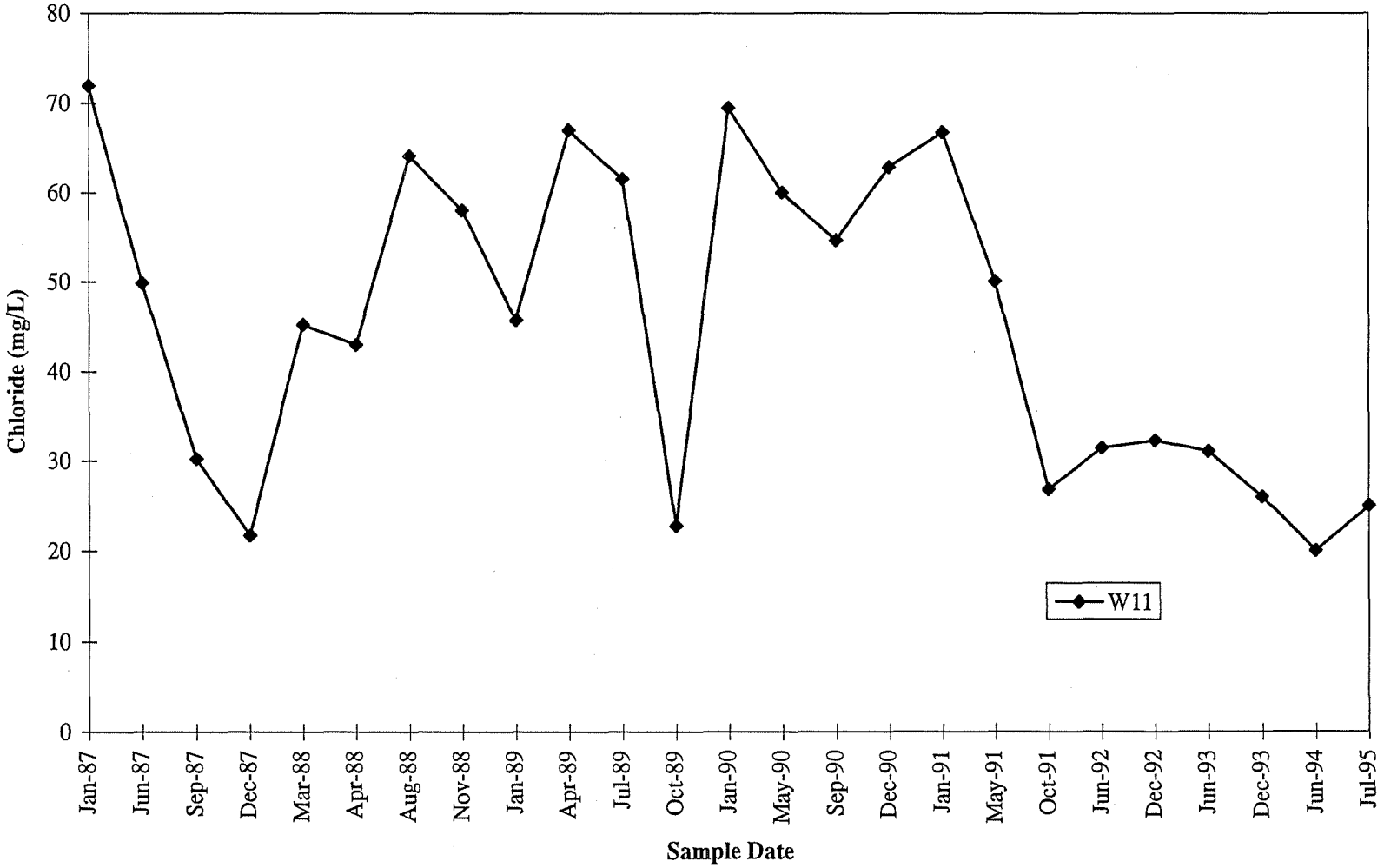
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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



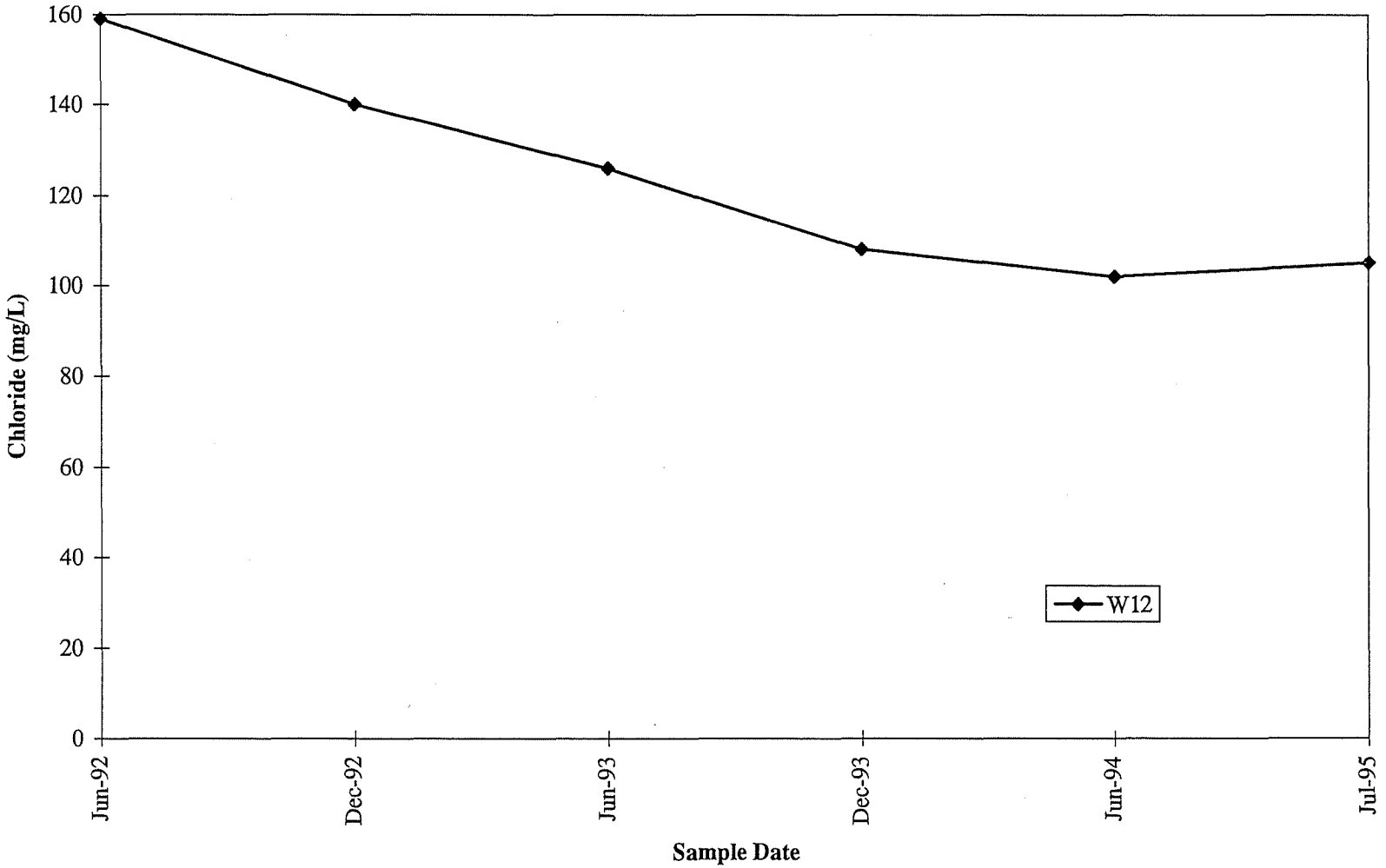
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Chloride Concentrations
Quarterly Groundwater Monitoring



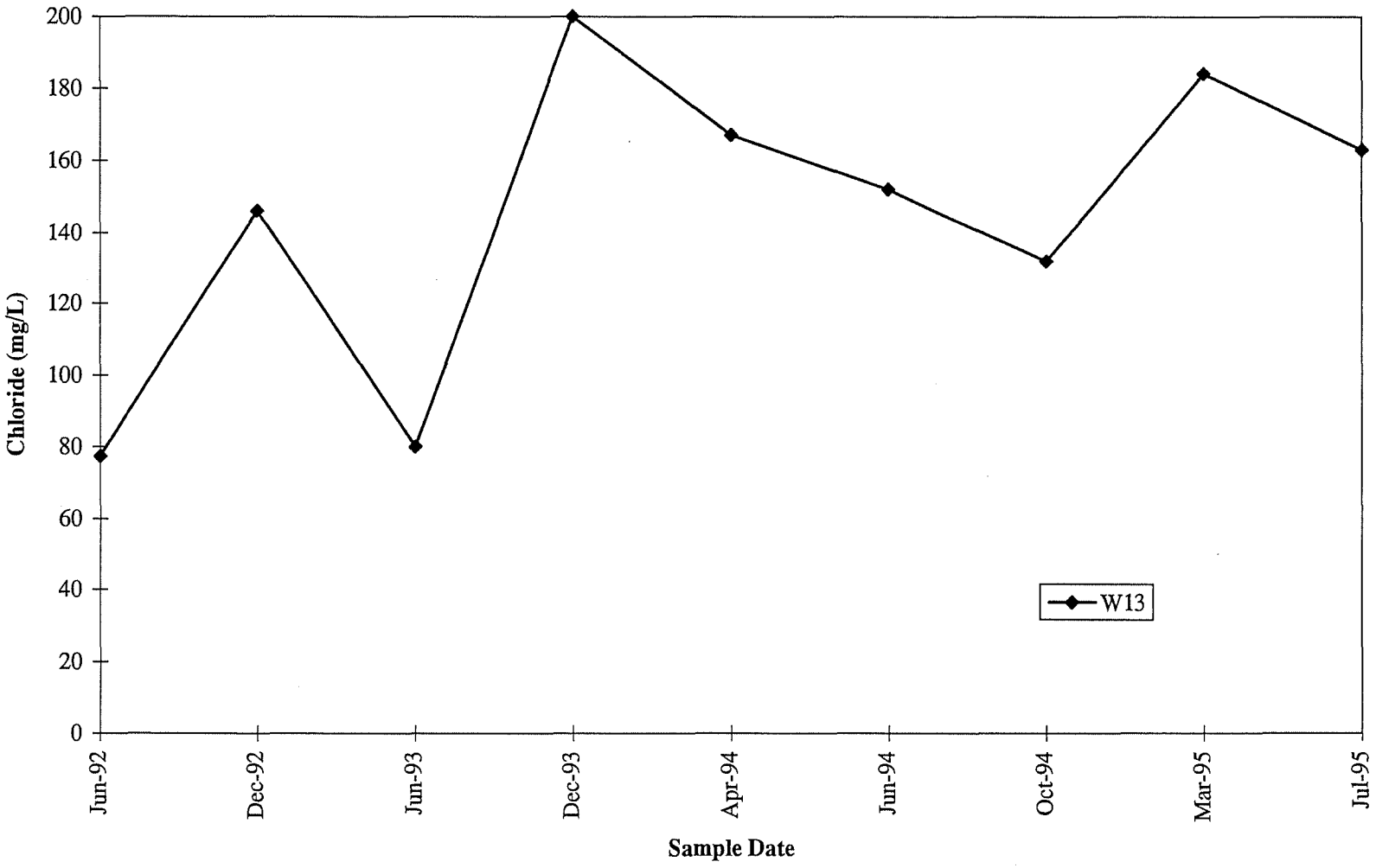
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Chloride Concentrations
Quarterly Groundwater Monitoring



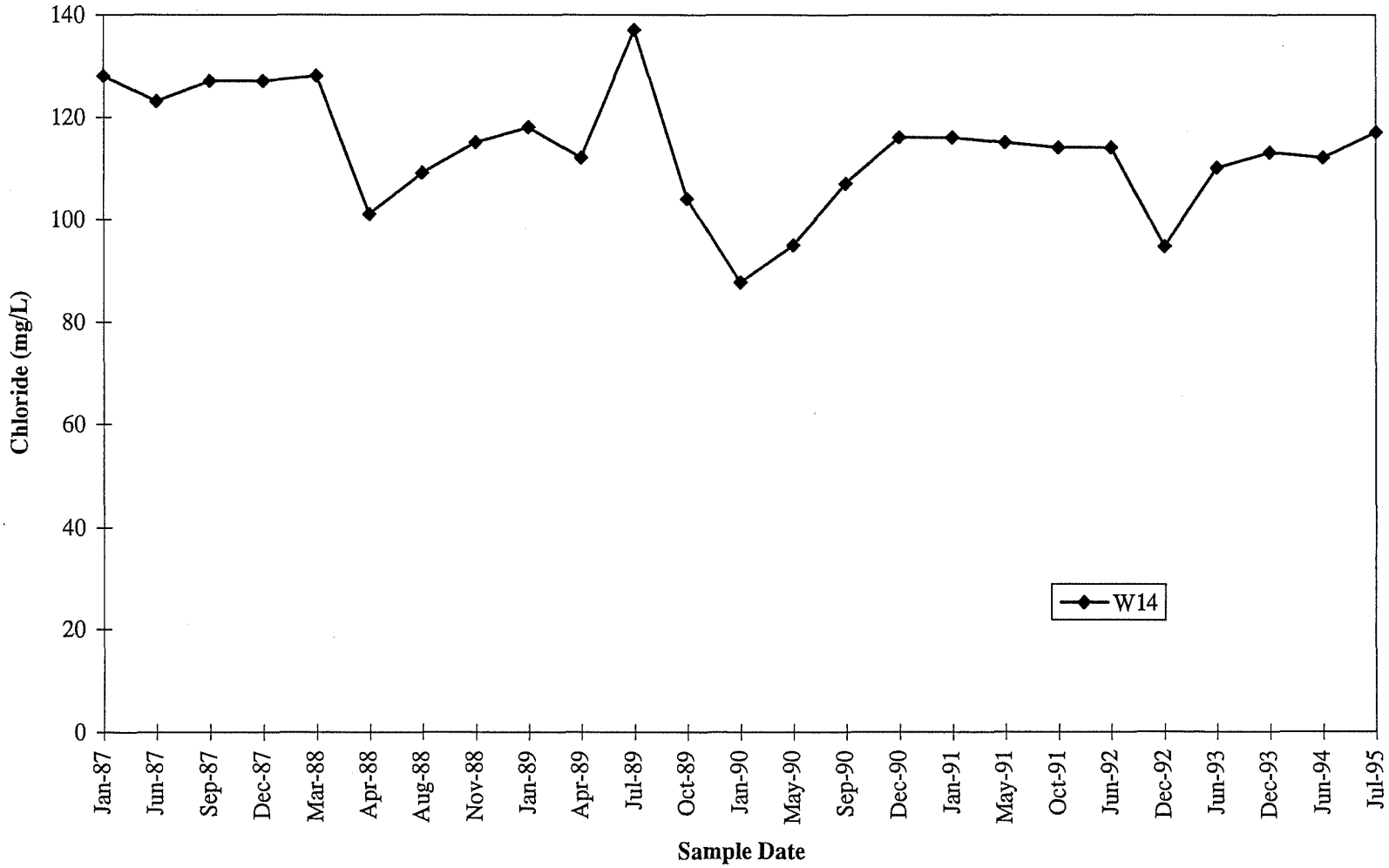
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Chloride Concentrations
Quarterly Groundwater Monitoring



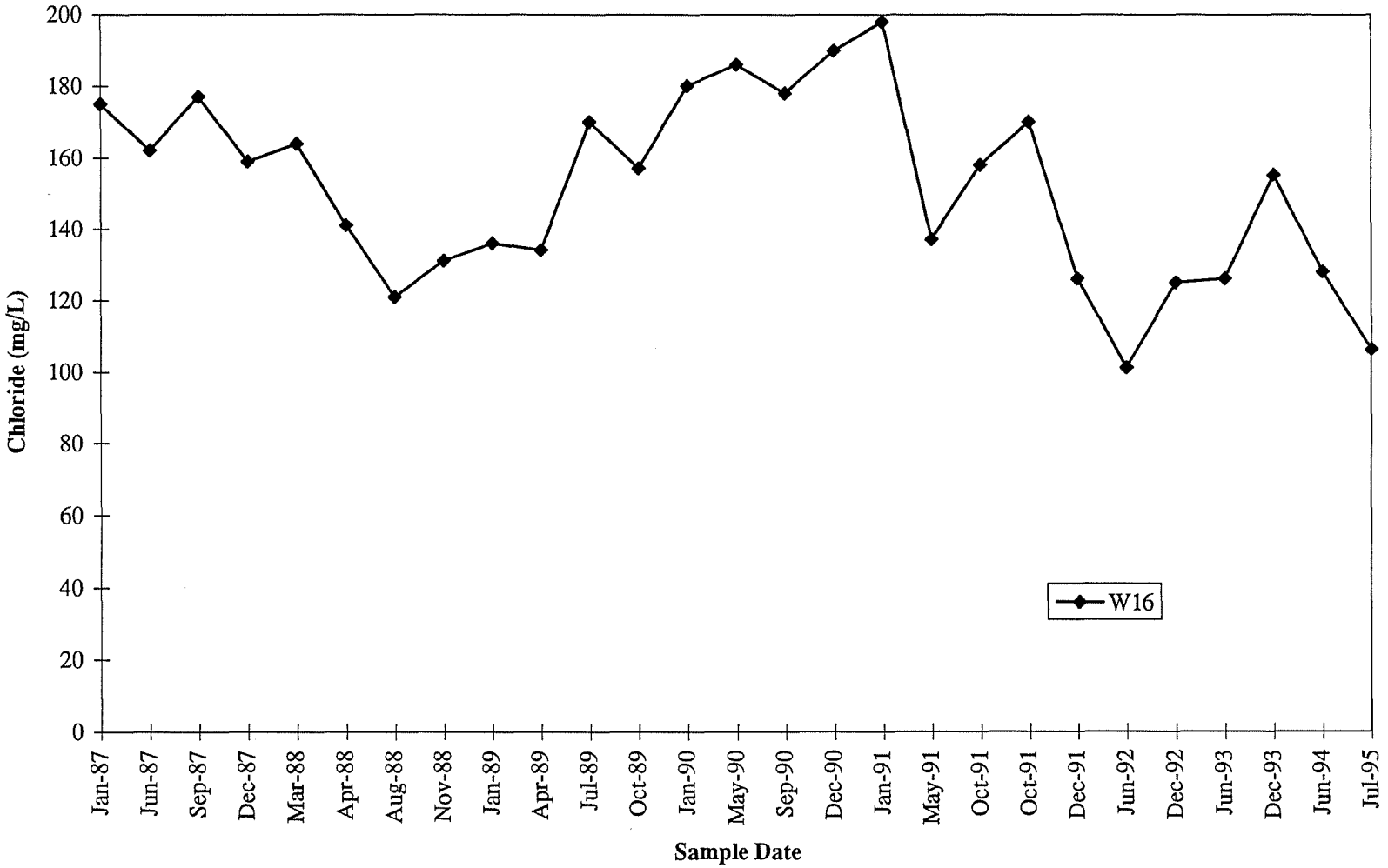
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Chloride Concentrations
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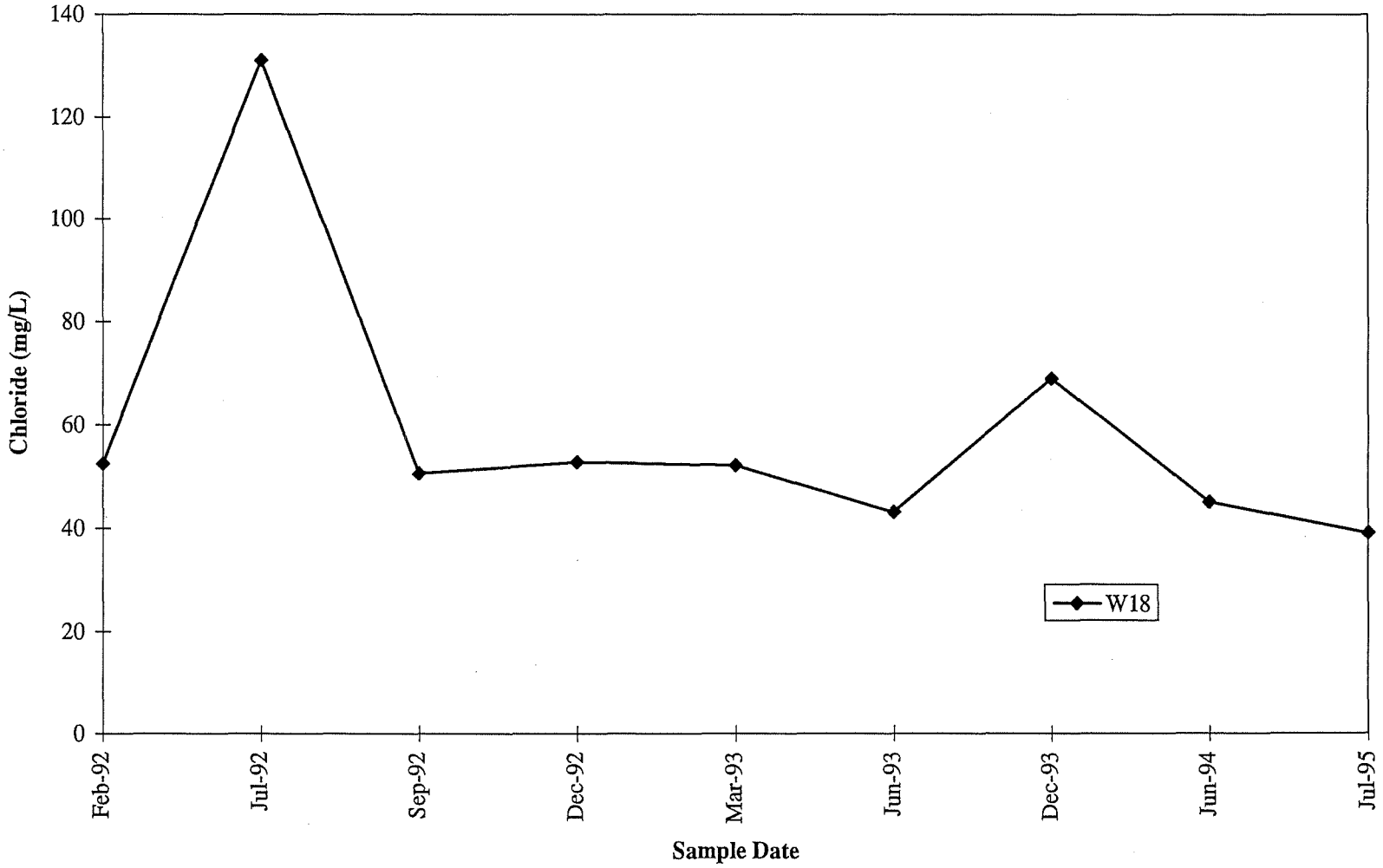
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Quarterly Groundwater Monitoring



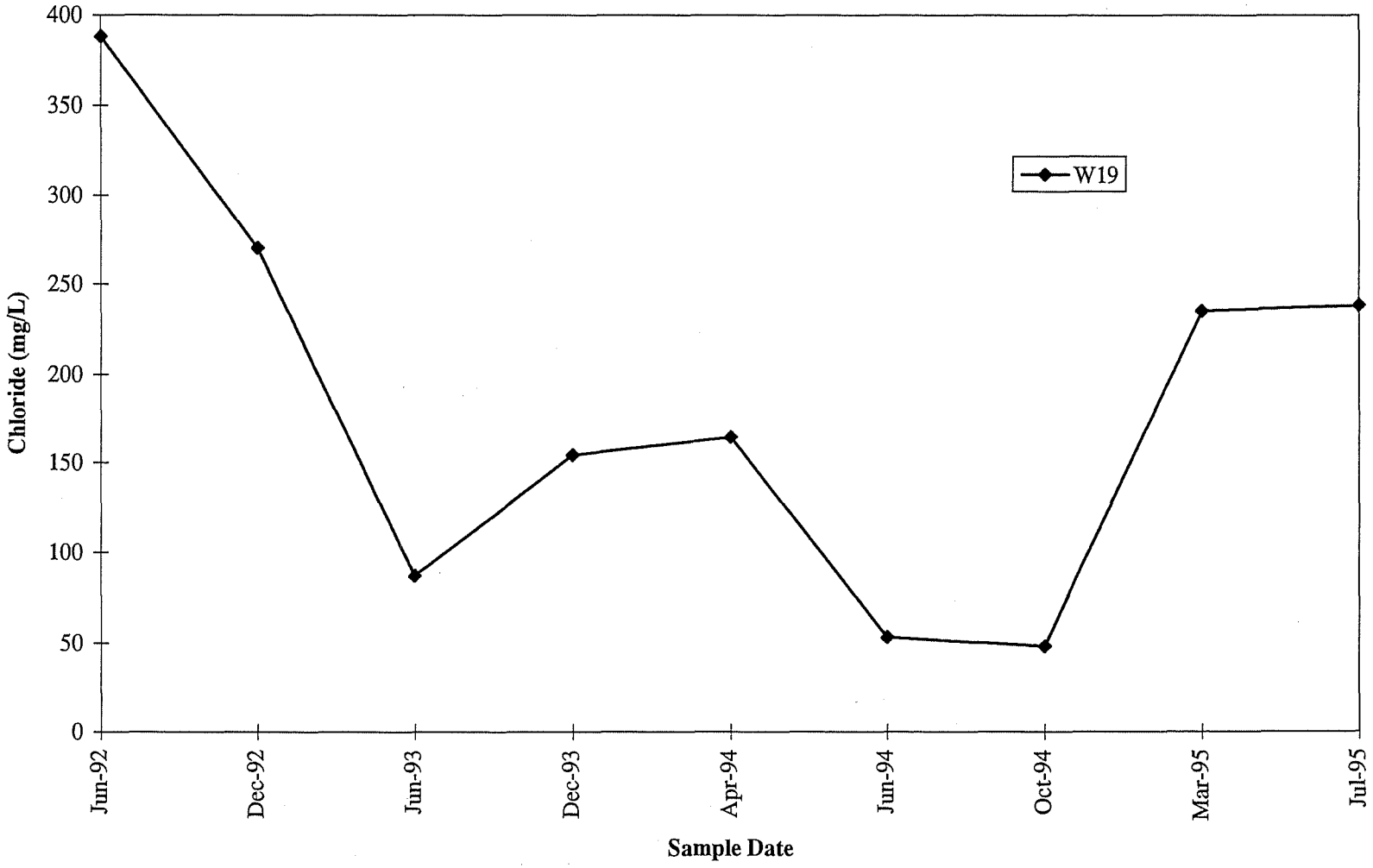
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Chloride Concentrations
Quarterly Groundwater Monitoring



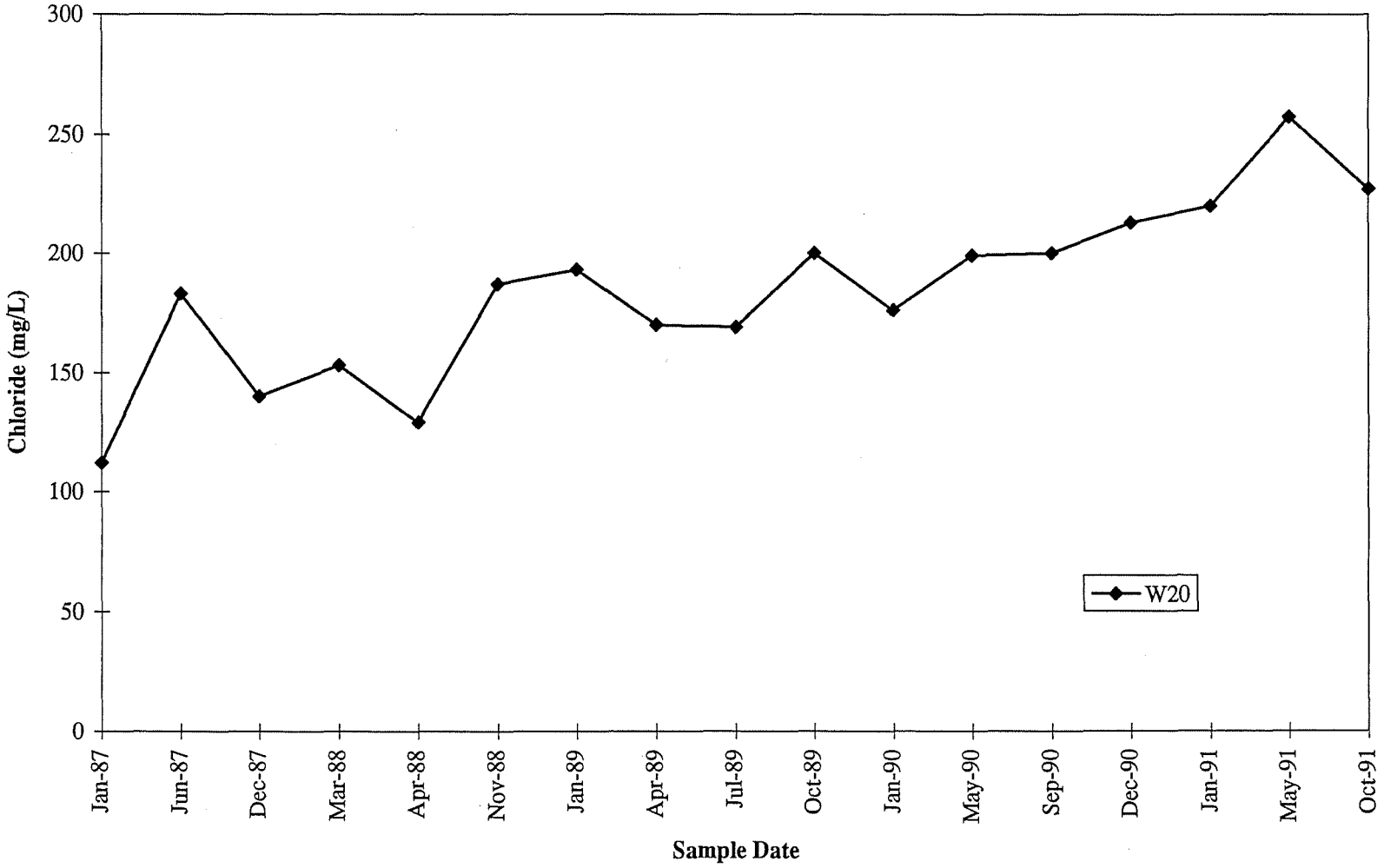
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Chloride Concentrations
Quarterly Groundwater Monitoring



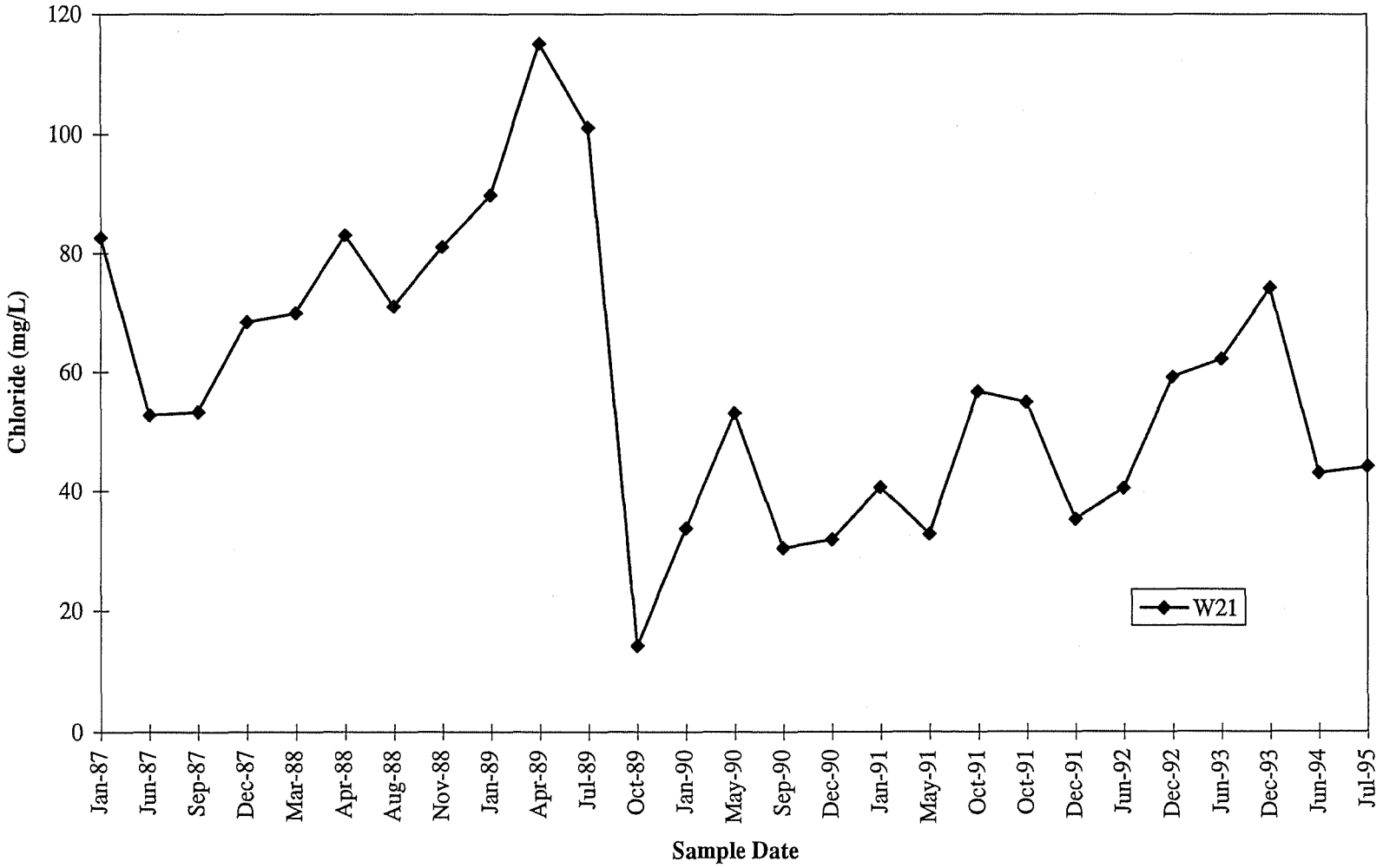
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Chloride Concentrations
Quarterly Groundwater Monitoring



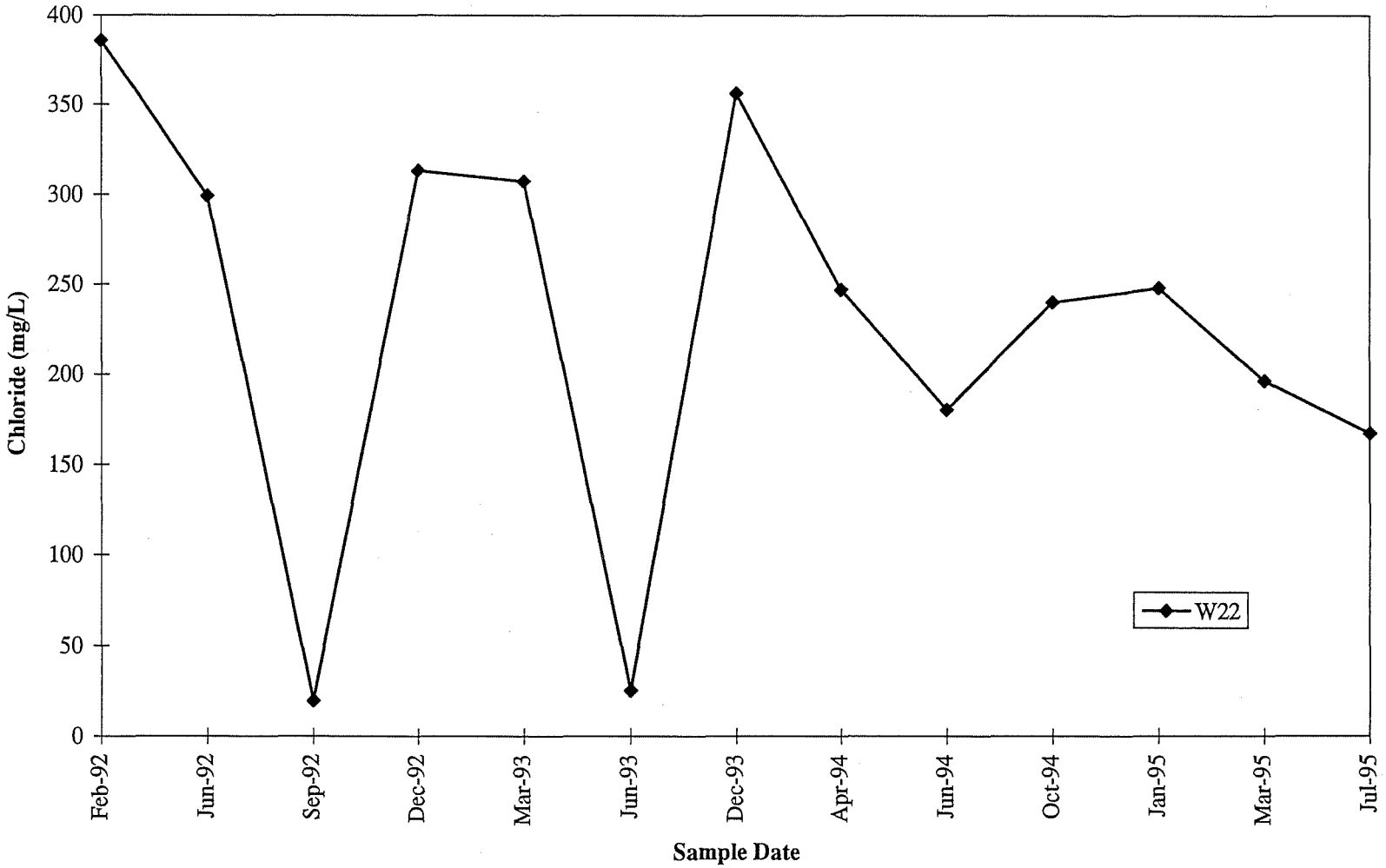
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Chloride Concentrations
Quarterly Groundwater Monitoring



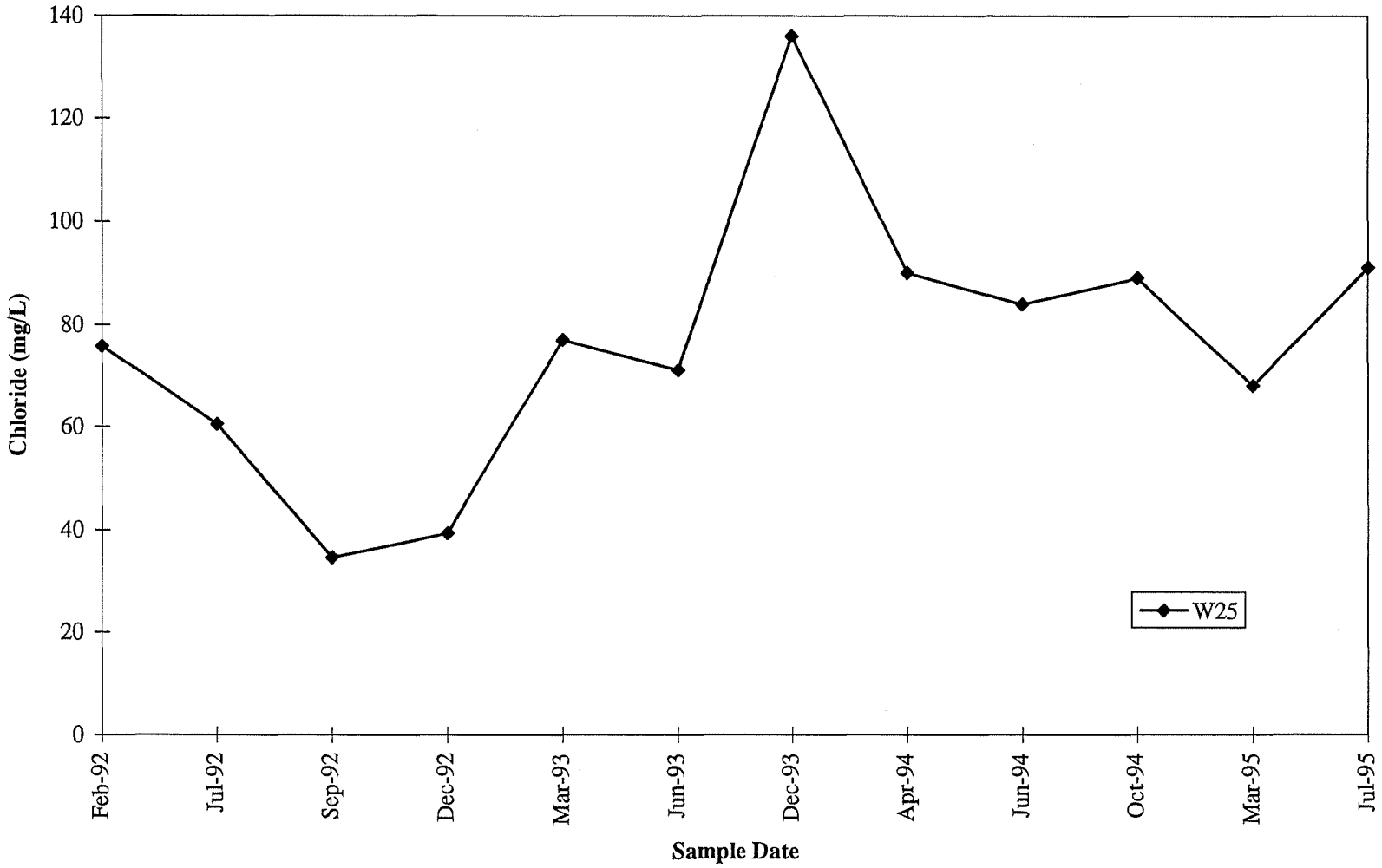
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Chloride Concentrations
Quarterly Groundwater Monitoring



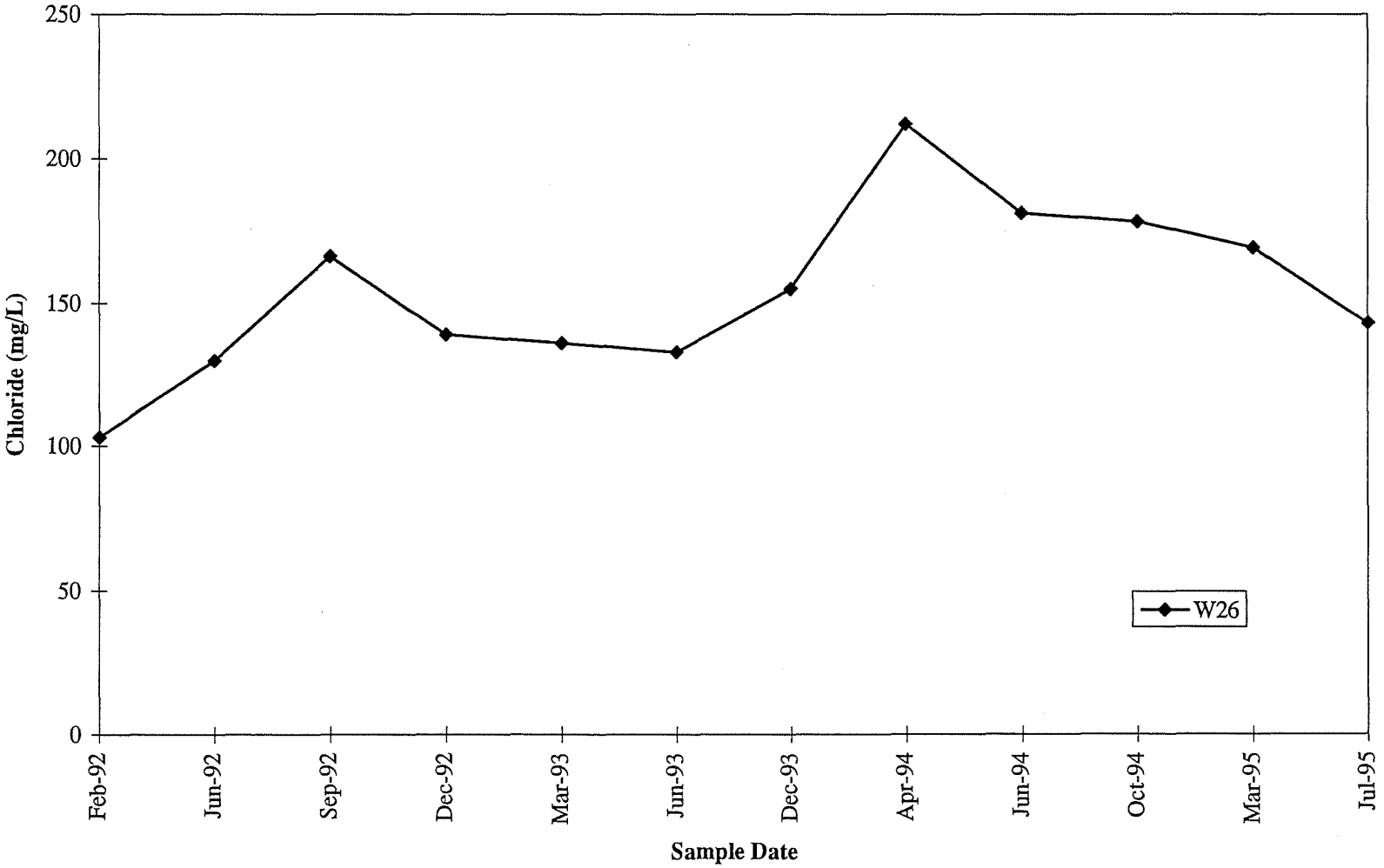
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Chloride Concentrations
Quarterly Groundwater Monitoring



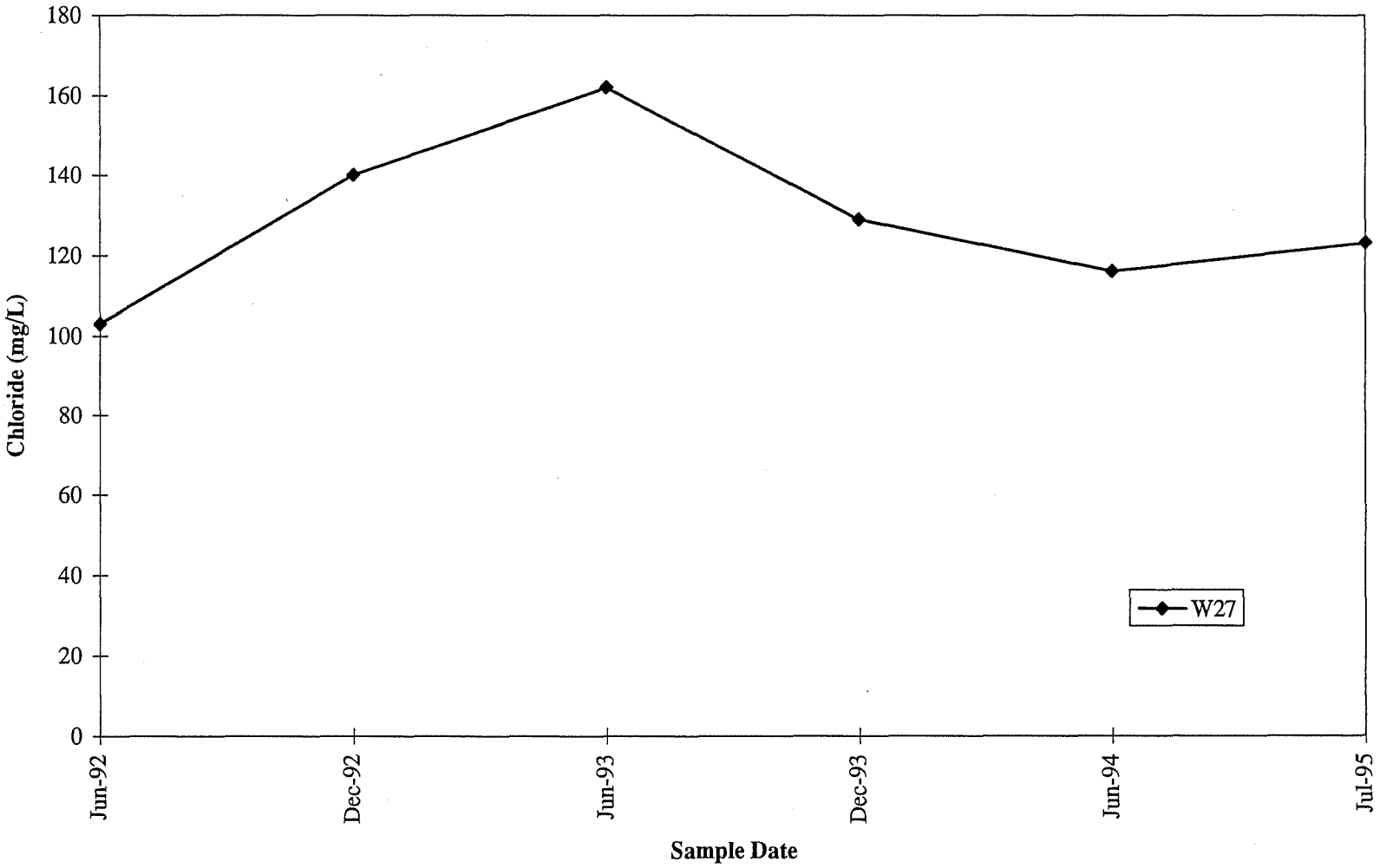
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Chloride Concentrations
Quarterly Groundwater Monitoring



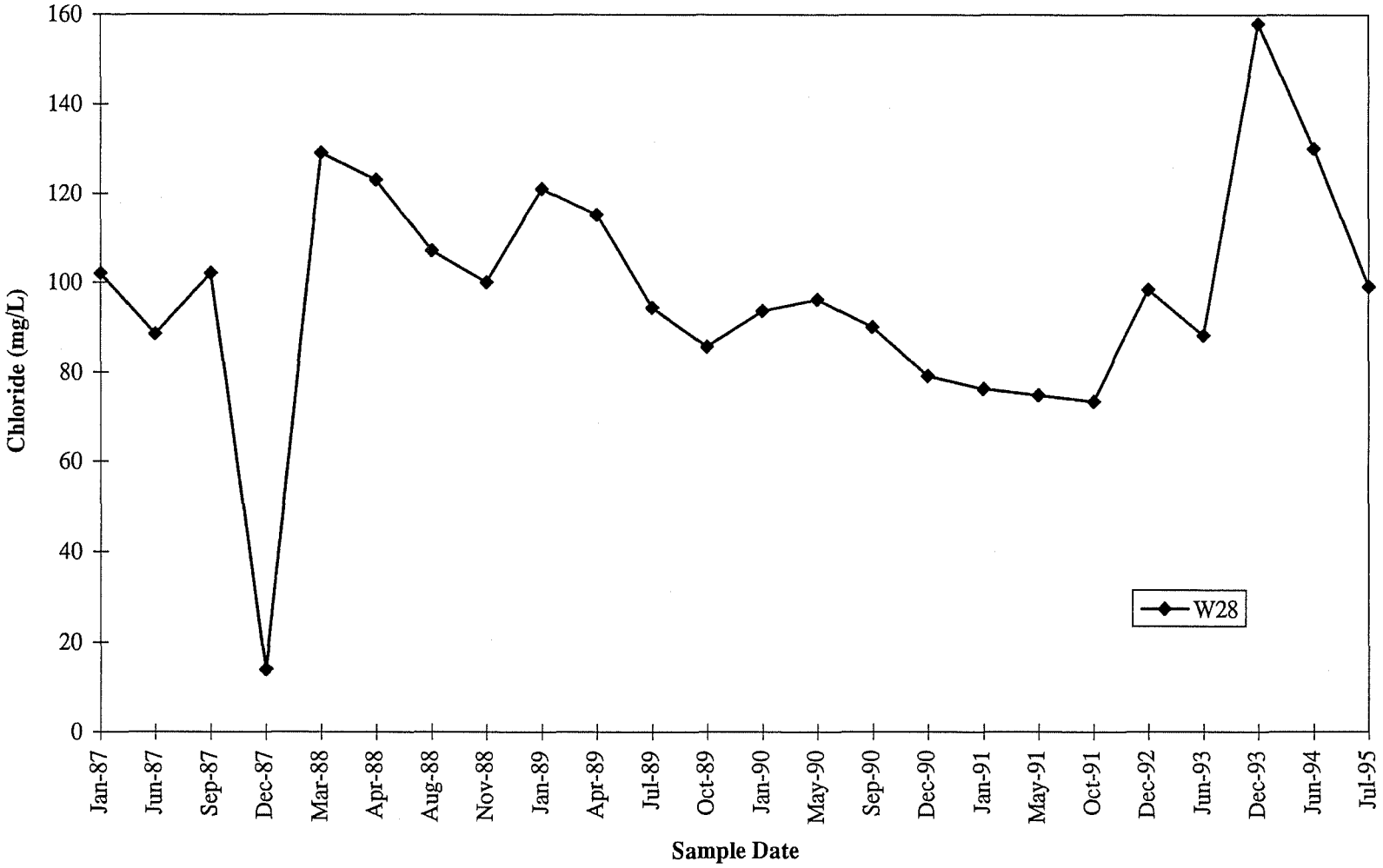
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Chloride Concentrations
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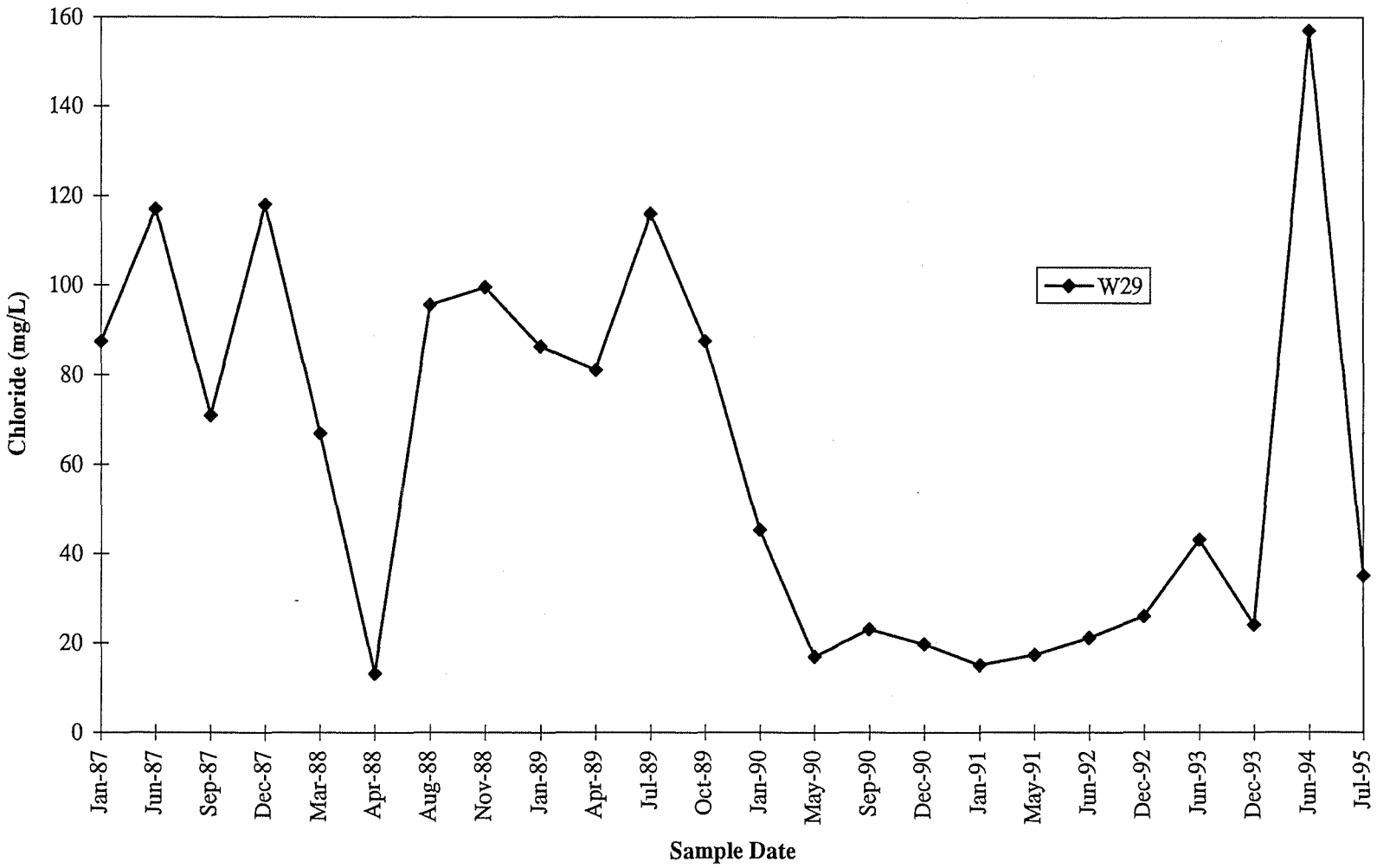
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Quarterly Groundwater Monitoring



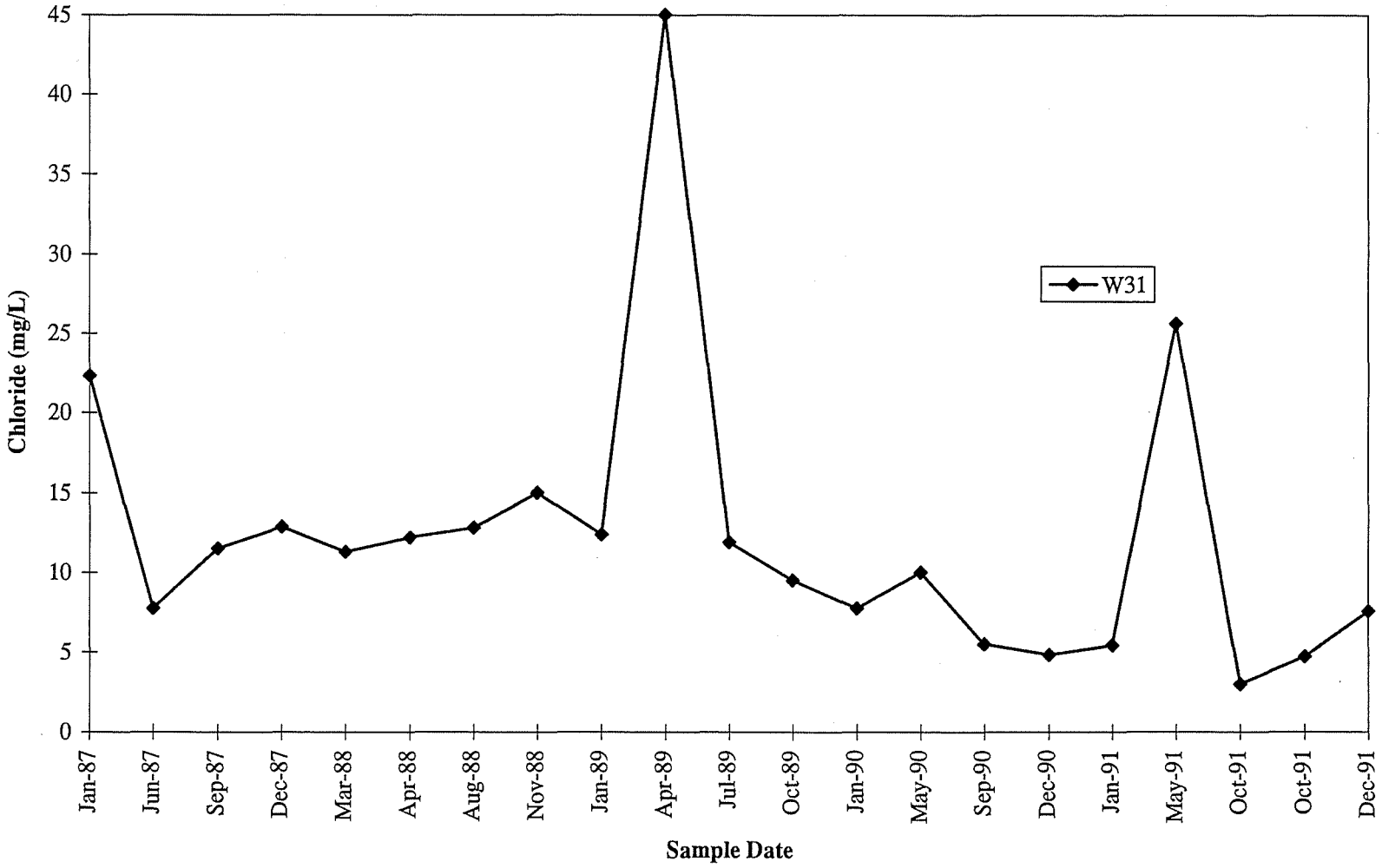
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Chloride Concentrations
Quarterly Groundwater Monitoring



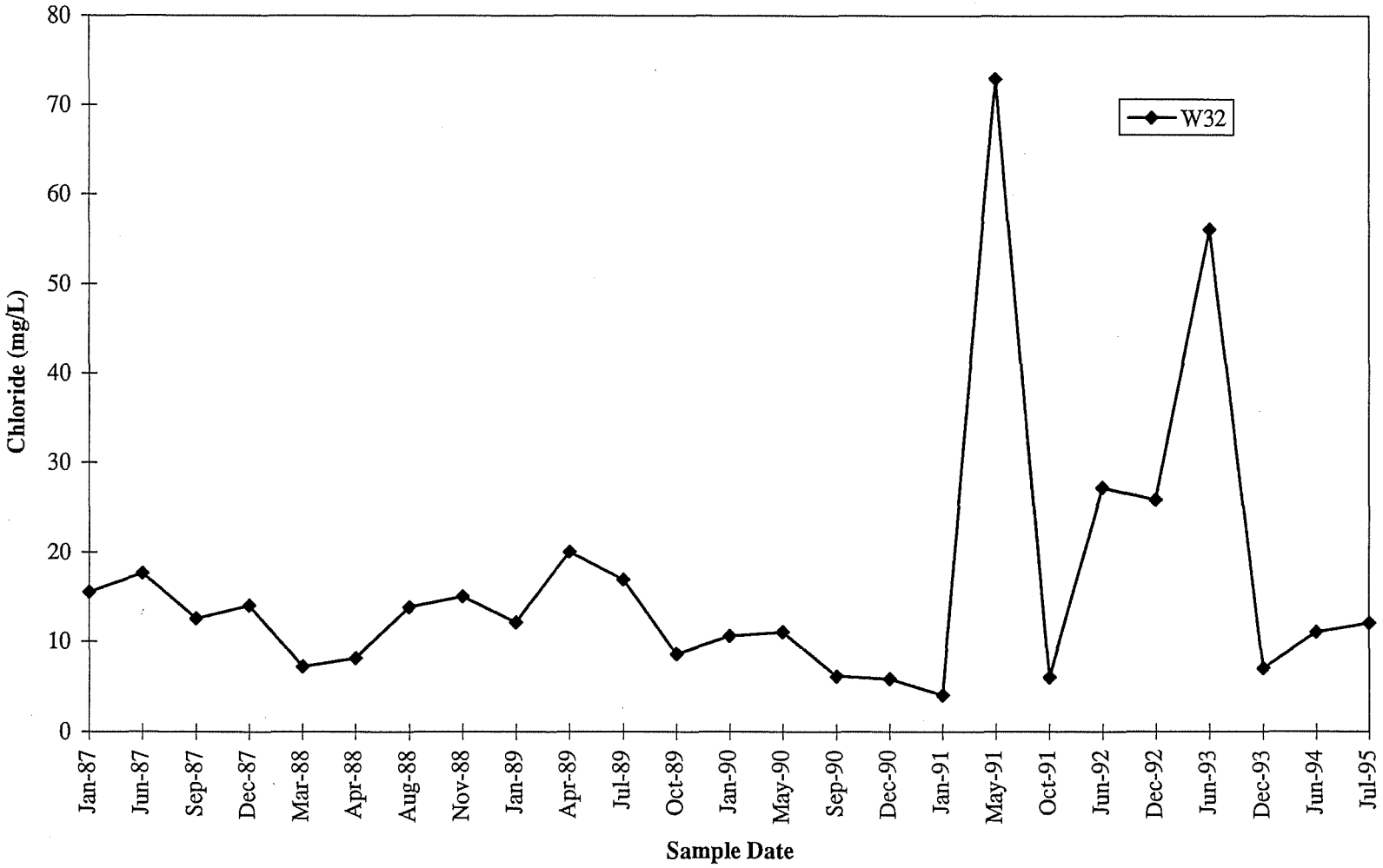
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Chloride Concentrations
Quarterly Groundwater Monitoring



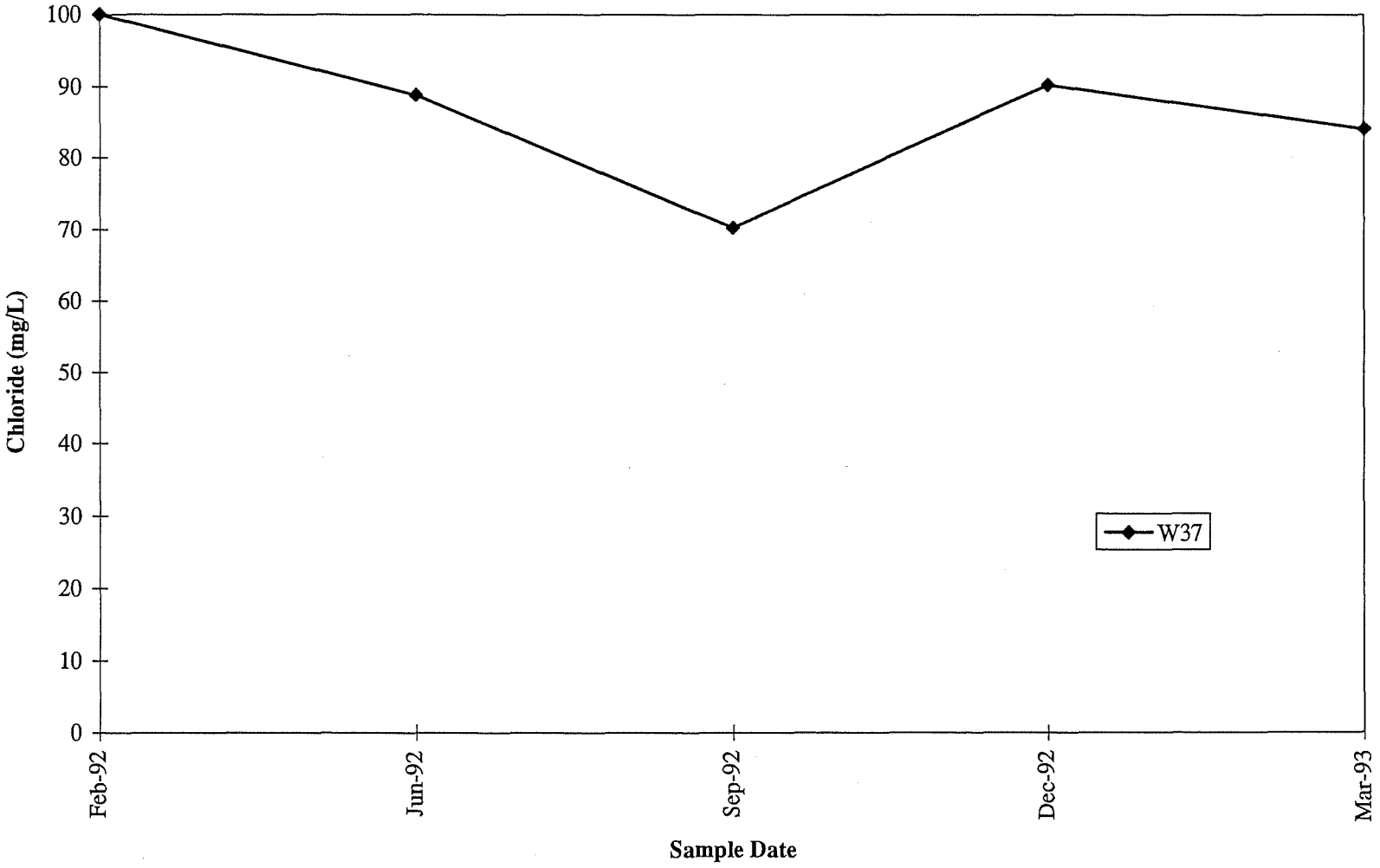
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Chloride Concentrations
Quarterly Groundwater Monitoring



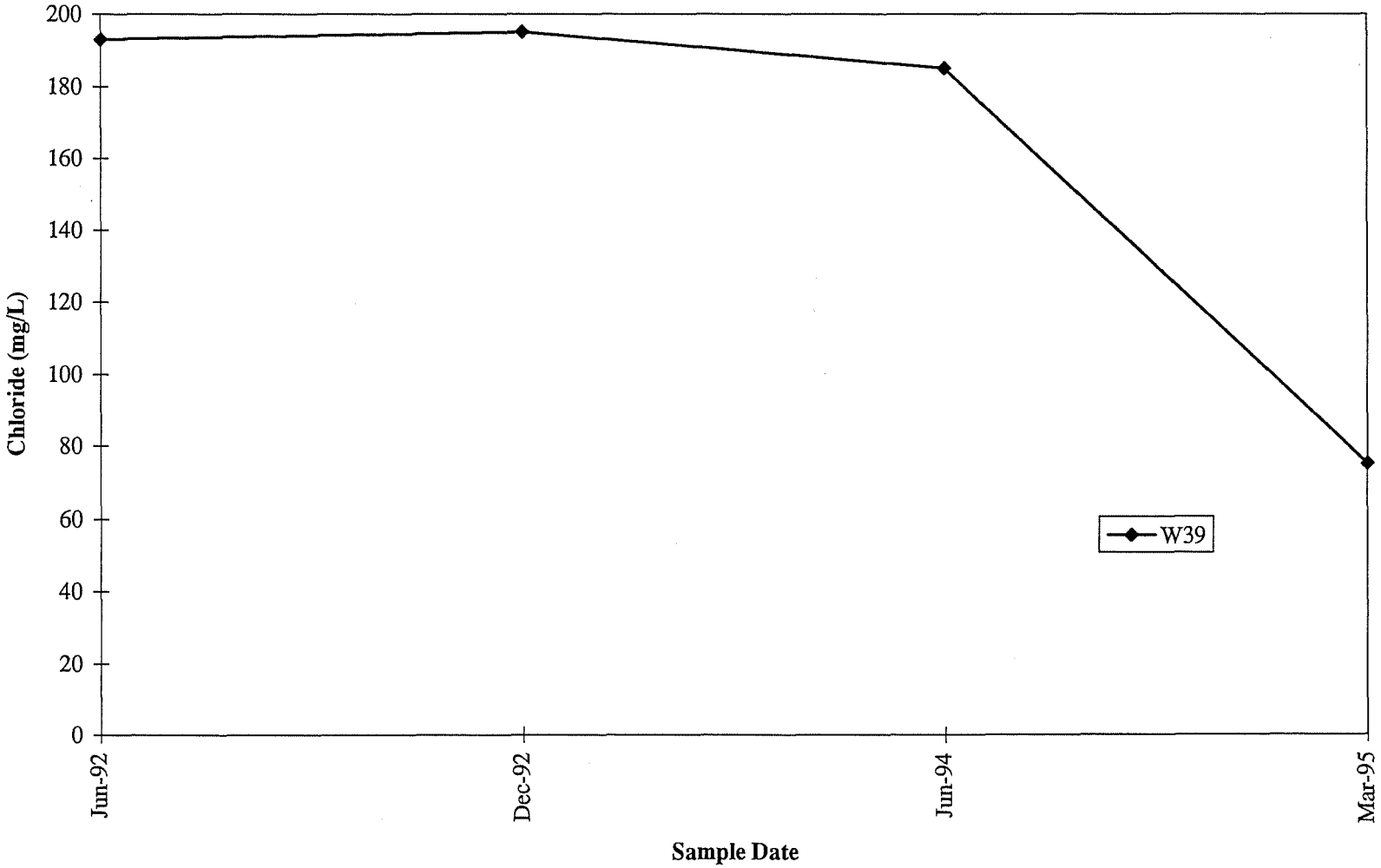
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Chloride Concentrations
Quarterly Groundwater Monitoring



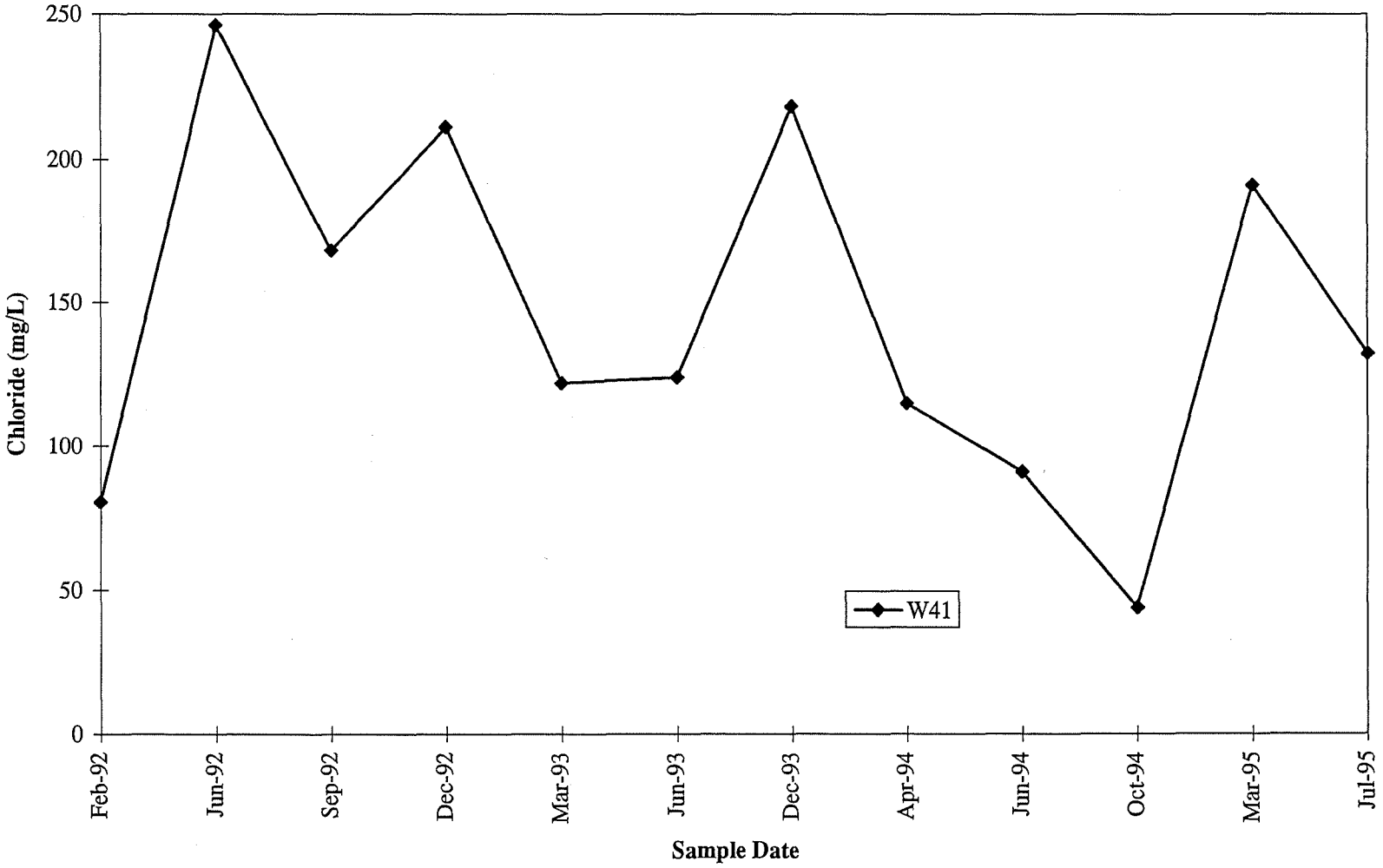
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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



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8/24/95

Chloride Concentrations
Quarterly Groundwater Monitoring



mdux/j:/wauleco/qrtly/Jun95/CL.XLS(W41)
8/24/95

C

BORING LOG/WELL CONSTRUCTION DETAILS

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WAULECO		**B-74**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear-Jeffrey Flaminio	**9/26/95**	**9/26/95**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		B-74	Feet MSL	Feet MSL	**8.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Marathon	**37**	**Wausau**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	BLACKTOP										
			1											
			2	Br GRAVEL w/Rock										
			3											
			4											
1	.6	37 50/.4	5	Br Med. SAND w/Gravel and Rock					50	M				
			6											
			7											
			8											
			9											
2	0.0	5 39 50/.4	10						50	M				
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm BOART LONGYEAR
101 Alderson Schofield, WI 54476-0109
Tel: (715) 359-7090 Fax: (715) 355-5715

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Boring Number **B-74** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
			13											
			14											
3	0.0	8 25 50/.4	15 16						50	M				
			17											
			18											
			19											
4	.5	8 10 37 45	20 21	Br Med SAND w/Rock					47	M				
5	.8	18 24 20 38	22 23	Br F-M SAND w/Rock (Odor)					44	M				
6	.5	30 50/.4	24 25						50	M				
7	.8	33 30 23 24	26 27						53	W				
8	.8	15 27 27 32	28 29						54	W				
9	.3	50/.4	30 31 32						50	W				

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-74** Use only as an attachment to Form 4400-122. Page 3 of 3

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
10	.6	20 22 9 10	33	Br Med. SAND w/Rock					31	W				
11	.8	20 19 6 6	34 35	Br Med. SAND w/Silty Clay					25	W				
12	.6	6 8 12 12	36 37	Br Silty CLAY					20	W				
			38	EOB 38.0 Set Temp Well 31.0 Backfill w/Holeplug										

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

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

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: 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 WAULECO

Original Well Owner (If Known)

Present Well Owner: WAULECO

Street or Route

City, State, Zip Code: Wausau, WI

Facility Well No. and/or Name (If Applicable): B-74

WI Unique Well No.

Reason For Abandonment: Test Boring

Date of Abandonment: 09/26/95

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) _____ Casing Diameter (ins.) _____
(From groundsurface)

Casing Depth (Ft.) _____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) 26.0

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
☐ 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.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	38.0	7 Bags	
(Some Natural Cave-In)				

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear

Signature of Person Doing Work: R Tuhl — Date Signed: 10-5-95

Street or Route: 101 Alderson Street — 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

Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WAULECO		**B-75**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear-Jeffrey Flaminio	**9/26/95**	**9/26/95**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		B-75	Feet MSL	Feet MSL	**8.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Marathon	**37**	**Wausau**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	BLACKTOP										
			1											
			2	Br GRAVEL w/Rock										
			3											
			4											
1	0.0	50/.4	5	F-M Br SAND w/Rock					50					
			6											
			7											
			8											
			9											
2	0.0	18 50/.4	10	Pounded on ROCK					50					
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm BOART LONGYEAR
101 Alderson Schofield, WI 54476-0109
Tel: (715) 359-7090 Fax: (715) 355-5715

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-75** Use only as an attachment to Form 4400-122. Page 2 of 3

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			13											
			14											
3	0.0	50/.4	15						50					
			16											
			17											
			18											
			19											
4	0.0	50/.4	20						50					
			21											
5	0.0	50/.4	22						50					
			23											
6	.6	8 18 20 36	24 25	F-M Br SAND w/Trc Gravel (Odor)					38					
7	.8	12 20 22 26	26 27	~~Brown~~ SAND + GRAVEL, Trc Silt					42					
8	.8	6 8 10 12	28 29	Med. Br SAND w/some Gravel, Trc Silt					18					
9	.4	8 10 12 18	30 31	M-C Br SAND Little Gravel, Trc Silt					22					
			32											

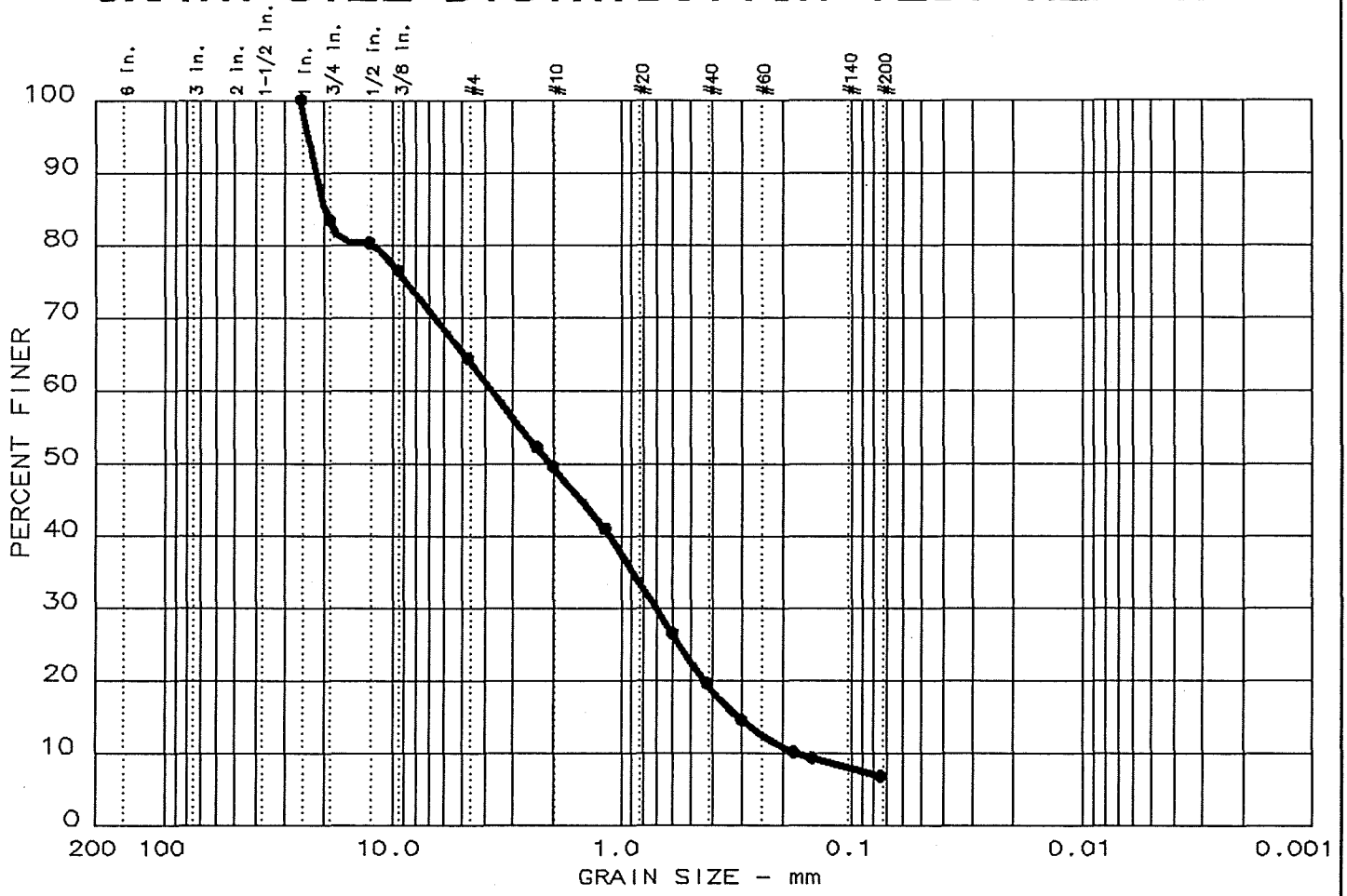
State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-75** Use only as an attachment to Form 4400-122. Page 3 of 3

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
10	2.0	8 10 12 12	33	Br M-C SAND w/Silty Clay Tip					22					
11	1.2	1 1 1 5	34 35 36	Br Silty CLAY EOB 36.0 Set Temp Well 30.0 Backfill w/Holeplug					2					

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	1	0.0	35.6	57.5	6.9	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	19.84	3.69	2.03	0.696	0.3073	0.1728	0.76	21.4

MATERIAL DESCRIPTION	USCS	AASHTO
● Brown F-C SAND & GRAVEL, Trace Silt	SP-SM	

Project No.: 94050.30
Project: Wauleco, Wausau,WI Job # 4113.0020
● Location: B75 S-7 @ 26.0-28.0 ft

Date: November 6, 1995

GRAIN SIZE DISTRIBUTION TEST REPORT

CGC, Inc.

Remarks:

Tested BY : DWA

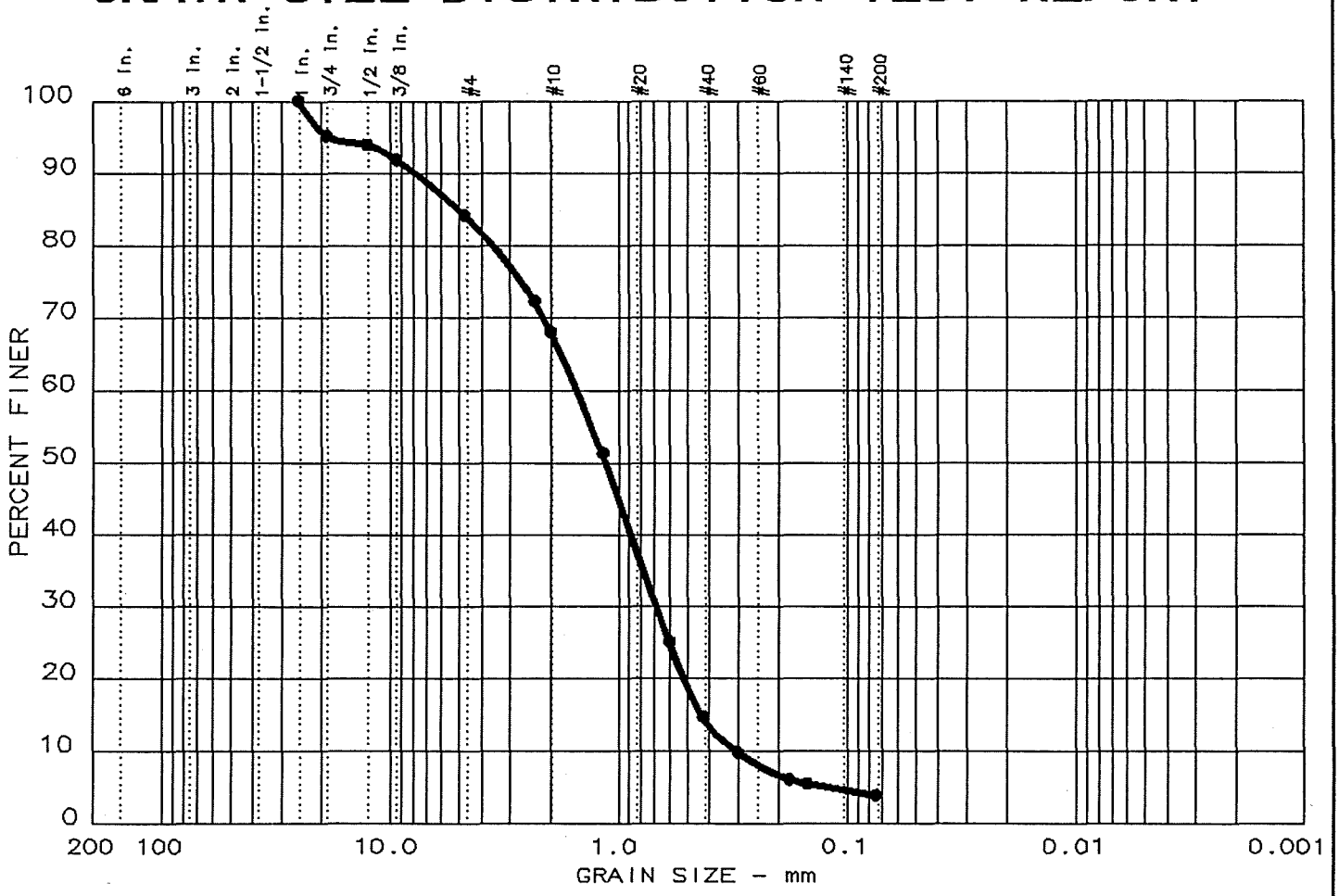
Input By : MES

Checked By : KJL

Approved By :

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	2	0.0	15.8	80.3	3.9	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	5.07	1.51	1.14	0.683	0.4310	0.3051	1.01	5.0

MATERIAL DESCRIPTION	USCS	AASHTO
● Brown F-C SAND, Some Gravel, Trace Silt	SP	

Project No.: 94050.30
Project: Wauleco, Wausau,WI Job # 4113.0020
● Location: B75 S-8 @ 28.0-30.0 ft

Date: November 6, 1995

GRAIN SIZE DISTRIBUTION TEST REPORT

CGC, Inc.

Remarks:

Tested BY : DWA

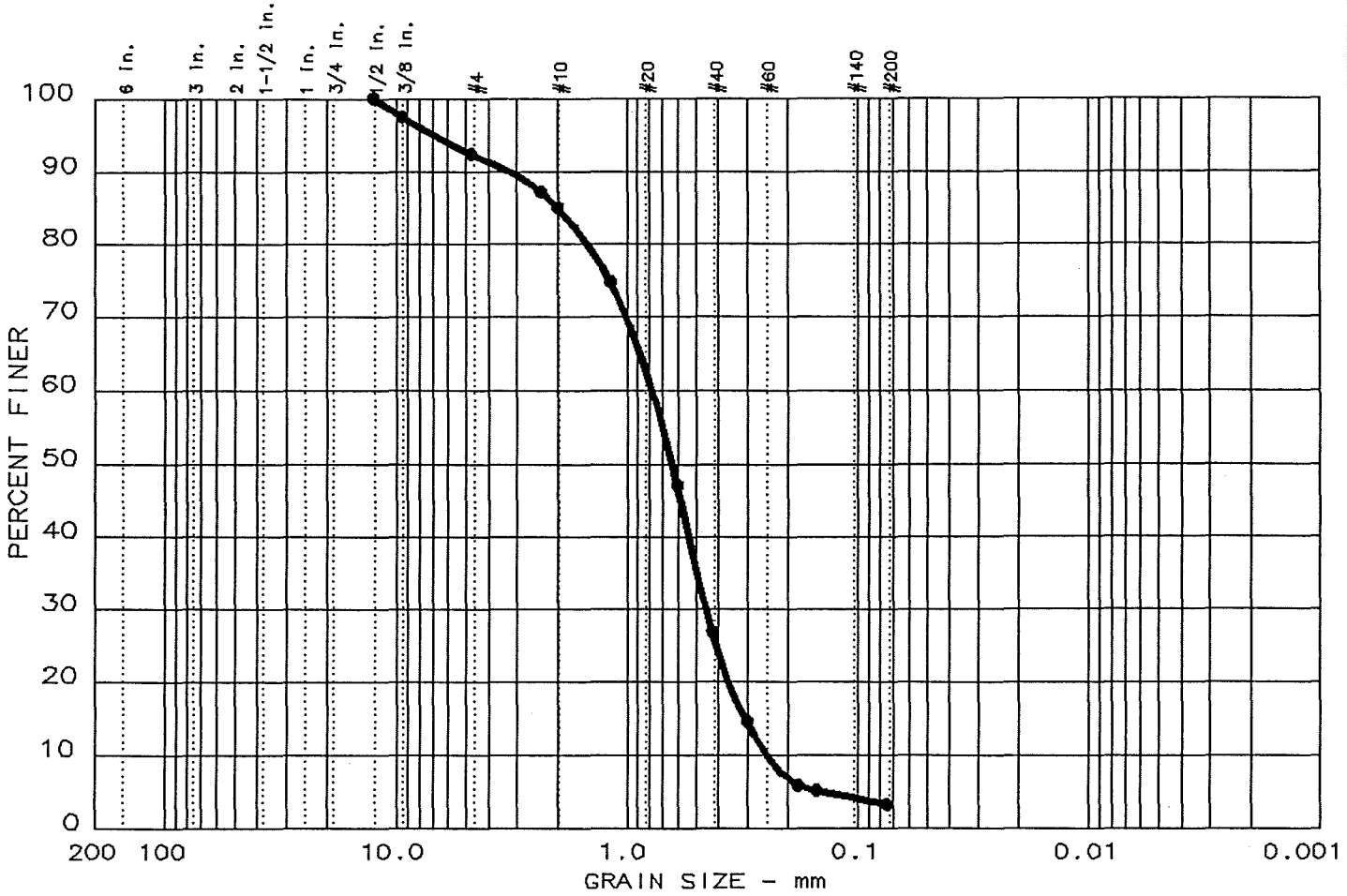
Input By : MES

Checked By : KJL

Approved By :

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	3	0.0	7.7	89.0	3.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	2.00	0.77	0.63	0.451	0.3048	0.2449	1.07	3.2

MATERIAL DESCRIPTION	USCS	AASHTO
● Brown F-C SAND, Little Gravel, Trace Silt	SP	

Project No.: 94050.30
Project: Wauleco, Wausau,WI Job # 4113.0020
● Location: B75 S-9 @ 30.0-32.0 ft

Date: November 6, 1995

GRAIN SIZE DISTRIBUTION TEST REPORT

CGC, Inc.

Remarks:

Tested BY : DWA

Input By : MES

Checked By : KJL

Approved By

Figure No. _____

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

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

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: 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 WAULECO

Original Well Owner (If Known)

Present Well Owner: WAULECO

Street or Route

City, State, Zip Code: Wausau, WI

Facility Well No. and/or Name (If Applicable): B-75

WI Unique Well No.

Reason For Abandonment: Test Boring

Date of Abandonment: 09/26/95

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) ____ Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 26.0

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
☐ 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.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	36.0	1 Bag	
(Some Natural Cave-In)				

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear

Signature of Person Doing Work: [signature] Date Signed: 10-5-95

Street or Route: 101 Alderson Street 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	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WAULECO		B-76

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear-Jeffrey Flaminio	9/26/95	9/26/95	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		B-76	Feet MSL	Feet MSL	8.0 Inches

Boring Location
State Plane N, E Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Marathon	37	Wausau

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	BLACKTOP										
1	.8	5 13 12 15	5	Gry M-F SAND w/Rock					25	M				
			7	1.0' CONCRETE Obstruction										
2	.3	8 12 17 19	10						29	M				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm BOART LONGYEAR
101 Alderson Schofield, WI 54476-0109
Tel: (715) 359-7090 Fax: (715) 355-5715

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-76** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
			13											
			14											
3	.8	6 7 11 13	15	Br M-C SAND w/Rock					18	M				
			16											
			17											
			18											
			19											
4	.4	5 8 13 17	20	Br Med. SAND w/Rock					21	M				
			21											
5	0.0	50/.4	22						50	M				
			23											
6	.6	5 12 23 34	24						35	M				
			25	Br Med. SAND w/Rock (Odor)										
7	.3	50/.4	26						50	W				
			27											
8	0.0	1 1 1 27	28						2	W				
			29											
9	0.0	7 30 50/.4	30						50	W				
			31											
			32											

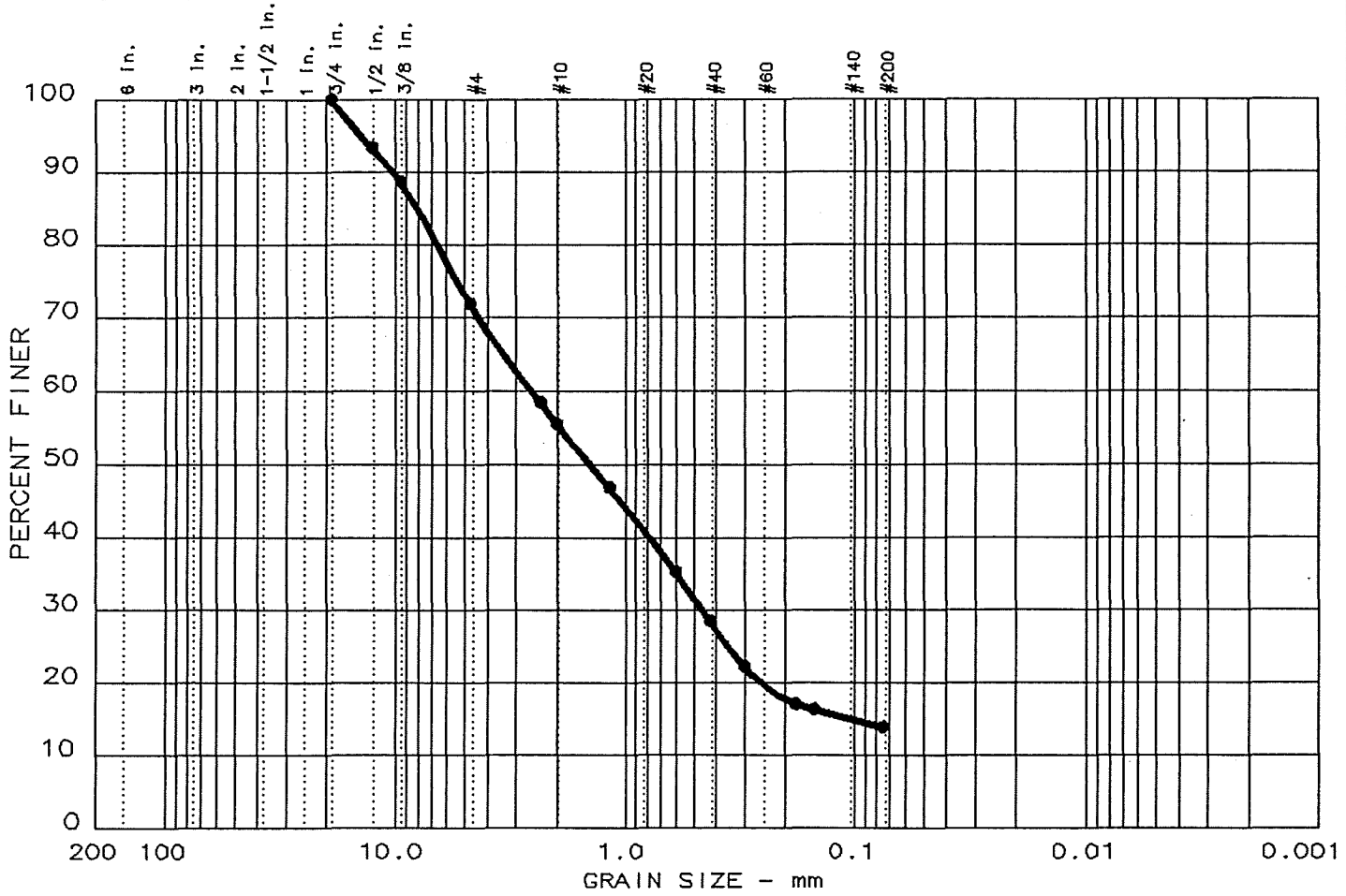
State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-76** Use only as an attachment to Form 4400-122. Page 3 of 3

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
10	.6	8 20 27 31	33	Br M-C SAND ~~w/Rock~~ (Odor) Some Gravel, Trace Silt					47	W				
11	.8	6 8 30 37	34 35						38	W				
12	2.0	6 6 7 8	36 37	Br Silty CLAY					13	W				
13	.8	3 3 8 12	38 39						11	W				
			40	EOB 40.0 Backfill w/Holeplug										

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	4	0.0	28.2	57.9	13.9	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	8.04	2.57	1.43	0.457	0.1035			

MATERIAL DESCRIPTION	USCS	AASHTO
● Brown F-C SAND, Some Gravel & Silt	SM	

Project No.: 94050.30
Project: Wauleco, Wausau,WI Job # 4113.0020
● Location: B76 S-10 @ 33.0-34.0 ft

Date: November 6, 1995

GRAIN SIZE DISTRIBUTION TEST REPORT

CGC, Inc.

Remarks:

Tested BY : DWA

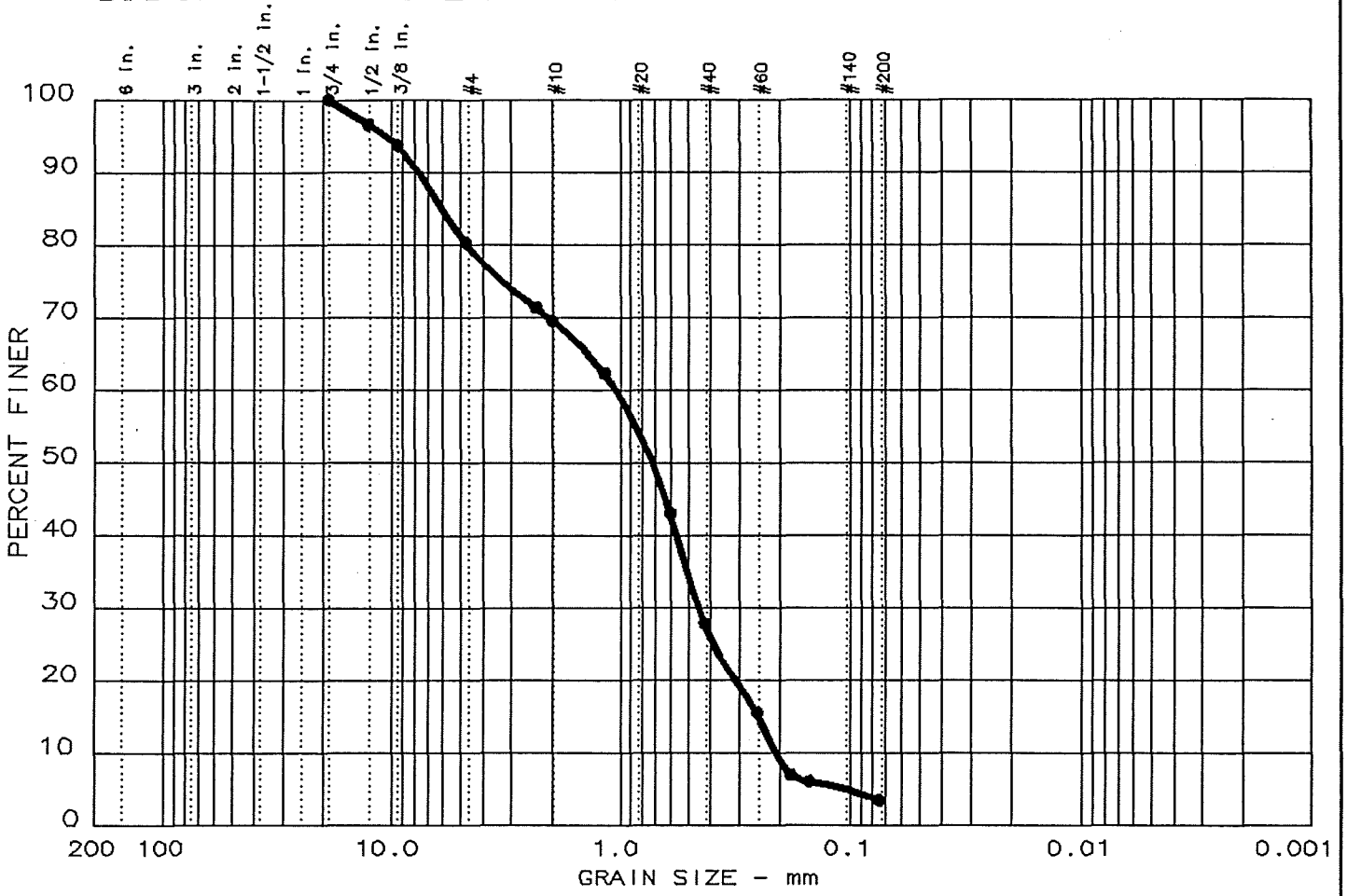
Input By : MES

Checked By : KJL

Approved By :

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	5	0.0	19.8	76.7	3.5	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	6.03	1.04	0.72	0.449	0.2438	0.2068	0.94	5.0

MATERIAL DESCRIPTION	USCS	AASHTO
● Brown F-C SAND, Some Gravel, Trace Silt	SP	

Project No.: 94050.30
Project: Wauleco, Wausau,WI Job # 4113.0020
● Location: B76 S-11 @ 35.0-36.0 ft

Date: November 6, 1995

GRAIN SIZE DISTRIBUTION TEST REPORT

CGC, Inc.

Remarks:

Tested BY : DWA

Input By : MES

Checked By : KJL

Approved By :

Figure No. _____

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

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

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: 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 WAULECO

Original Well Owner (If Known)

Present Well Owner: WAULECO

Street or Route

City, State, Zip Code: Wausau, WI

Facility Well No. and/or Name (If Applicable): B-76

WI Unique Well No.

Reason For Abandonment: Test Boring

Date of Abandonment: 09/26/95

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) ____ Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 28.0

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
☐ 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.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	40.0	16 Bags	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear

Signature of Person Doing Work: [signature] Date Signed: 10-5-95

Street or Route: 101 Alderson Street 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

Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

Soil Boring Log Information
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WAULECO		B-77

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear-Jeffrey Flaminio	9/27/95	9/27/95	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		B-77	Feet MSL	Feet MSL	8.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N,R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Marathon	37	Wausau

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				BLACKTOP										
1	.4	4 7 7 9	5	Br M-F SAND w/Rock					14	M				
2	.6	7 10 10 12	10	Br M-C SAND w/Rock					20	M				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	BOART LONGYEAR 101 Alderson Schofield, WI 54476-0109 Tel: (715) 359-7090 Fax: (715) 355-5715

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-77** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
			13											
			14											
3	.6	5 10 12 12	15 16 17						22	M				
			18											
			19											
4	.6	6 6 7 15	20 21						13	M				
5	.6	15 12 20 32	22 23	Br M-C SAND w/Rock					32	M				
6	.6	10 12 15 27	24 25	Br M-C SAND w/Rock (Odor)					27	M				
7	.6	40 50/.4	26 27						50	W				
8	.8	13 30 50/.4	28 29						50	W				
9	.6	17 20 22 21	30 31 32						42	W				

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-77** Use only as an attachment to Form 4400-122. Page **3** of **3**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
10	0.0	50/.4	33	Pounded on ROCK					50	W				
11	2.0	5 7 8 8	34 35	Br Silty CLAY w/F. Sand					15	W				
			36	EOB 36.0 Backfill w/Holeplug										

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5W 11-89

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

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: 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 WAULECO

Original Well Owner (If Known)

Present Well Owner: WAULECO

Street or Route

City, State, Zip Code: Wausau, WI

Facility Well No. and/or Name (If Applicable): B-77

WI Unique Well No.

Reason For Abandonment: Test Boring

Date of Abandonment: 09/27/95

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) ____ Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 26.5

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
☐ 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.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	36.0	13 Bags	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear

Signature of Person Doing Work: R Trdl

Date Signed: 10-5-95

Street or Route: 101 Alderson Street

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

Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST01

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	6/6/95	6/6/95	6 1/4" I.D. HSA

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		____ Feet MSL	____ Feet MSL	____ inches

Boring Location
State Plane ____ N, ____ E S/C/N | Lat ___ ___ ___
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
____ Feet ☐N ☐S ____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	Brown, Fine to Medium SAND and GRAVEL and Cobbles	SP/GP									
			5											
			10											
			15											
			20											
				Brown, Medium SAND	SP									
			25											
			30	Brown, Fine to Medium SAND and Cobbles	SP/GP									
				End of Boring at 34.0 ft										

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
PD / VJR	MONTGOMERY WATSON

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

J:\4113\GINT\15368 ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST02

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	6/7/95	6/7/95	6 1/4" I.D. HSA

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	1" TAR and GRAVEL	SP/GP									
				Brown, Fine to Medium SAND and Cobbles										
			5											
			10											
				COBBLES										
			15											
			20											
				Brown, Fine to Medium SAND and GRAVEL	SP/GP									
			25											
				Brown, Fine to Medium SAND and GRAVEL	SP/GP									
			30											
				End of Boring at 34.0 ft										

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Signature	Firm
PD / VJR	MONTGOMERY WATSON

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J\4113\GINT\15368 ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		**ST03**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	**6/7/95**	**6/7/95**	6 1/4" I.D. HSA 0-22'; 10 1/4" I.D. HSA 0-32'

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	**37**	**Wausau**

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	1" TAR and GRAVEL	SP/GP									
				Fine to Medium SAND and GRAVEL										
			5	COBBLES										
			10											
			15											
				Fine to Medium SAND and Cobbles										
			20											
			25											
			30											
				End of Boring at 33.0 ft										

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Signature	Firm
PD / VJR	MONTGOMERY WATSON

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J\4113\GINT\15368 ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST04

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	6/8/95	6/8/95	6 1/4" I.D. HSA 0-20'; 10 1/4" I.D. HSA 0-20'

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	3" TAR and GRAVEL Black, Medium to Coarse SAND and GRAVEL	SP/GP									
			5	Brown, Fine to Medium SAND and GRAVEL	SP/GP									
			10											
			15											
			20											
			25											
			30	End of Boring at 33.0 ft										

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Signature	Firm
PD / VJR	MONTGOMERY WATSON

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J:\4113\GINT\15368_ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST05

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - D. Zielazowski	6/8/95	6/8/95	6 1/4" I.D. HSA 0-20'; 10 1/4" I.D. HSA 0-33'

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	3" TAR and GRAVEL Dark Brown, Medium to Coarse SAND and GRAVEL	SP/GP									
			5											
				Brown, Fine to Medium SAND and GRAVEL	SP/GP									
			10											
			15											
			20											
			25											
			30											
				End of Boring at 33.0 ft										

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Signature	Firm
DZ / VJR	MONTGOMERY WATSON

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J:\4113\GINT\15368 ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST06

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - D. Zielazowski	6/8/95	6/8/95	6 1/4" I.D. HSA 0-25'; 10 1/4" I.D. HSA 0-33'

DNR Facility Well No. / WI Unique Well No. / Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
☐N ☐E
_____ Feet ☐S _____ Feet ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				3" TAR and GRAVEL	SP/GP									
				Dark Brown, Medium to Coarse SAND and GRAVEL										
			5											
				Brown, Fine to Medium SAND and GRAVEL										
			10											
			15											
			20											
			25											
			30											
				End of Boring at 33.0 ft										

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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Signature	Firm
DZ / VJR	MONTGOMERY WATSON

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J:\4113\GINT\15368 ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST07

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - D. Zielazowski	6/8/95	6/8/95	6 1/4" I.D. HSA 0-25'; 10 1/4" I.D. HSA 0-33'

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	3" TAR and GRAVEL Dark Brown, Medium to Coarse SAND and GRAVEL	SP/GP									
			5	Brown, Fine to Medium SAND and GRAVEL	SP/GP									
			10											
			15											
			20											
			25											
			30	End of Boring at 33.0 ft										

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
DZ / VJR	MONTGOMERY WATSON

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J:\4113\GINT\15368 ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		ST08

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - D. Zielazowski	6/8/95	6/8/95	6 1/4" I.D. HSA 0-30'; 10 1/4" I.D. HSA 0-27'

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ____ ____ ____
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ____ ____ ____

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	3" TAR and GRAVEL	SP/GP									
			5	Black, Medium to Coarse SAND and GRAVEL										
			10	Brown, Fine to Medium SAND	SP									
			15											
			20											
			25											
			27	End of Boring at 27.0 ft										
			30											

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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Signature	Firm
DZ / VJR	MONTGOMERY WATSON

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J\4113\GINT\15368_ID: WDNR

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		**SVE01**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	**6/5/95**	**6/5/95**	4 1/4" I.D. HSA 0-31'

DNR Facility Well No. / WI Unique Well No. / Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
☐N ☐E
_____ Feet ☐S _____ Feet ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	**37**	**Wausau**

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				1" TAR and GRAVEL	SP/GP									
				SAND and GRAVEL										
			5	Foundry SAND										
				COBBLES										
			10											
			15											
			20											
			25											
			30											
				End of Boring at 31.0 ft										

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Signature	Firm
PD / VJR	MONTGOMERY WATSON

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		SVE02

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	6/5/95	6/5/95	4 1/4" I.D. HSA 0-31'

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
☐N ☐E
_____ Feet ☐S _____ Feet ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	1" TAR and GRAVEL	SP/GP									
				SAND and GRAVEL										
			5	COBBLES										
			10											
			15	Brown, Medium SAND and GRAVEL										
			20											
			25											

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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J:\4113\GINT\15368_ID: WDNR

4113.0020

Boring No.: SVE02
Page 2 of 2

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
				End of Boring at 31.0 ft										
			35											
			40											
			45											
			50											
			55											
			60											
			65											
			70											
			75											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		AS01

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - P. Dickinson	6/5/95	6/5/95	4 1/4" I.D. HSA 0-48'

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		_____ Feet MSL	_____ Feet MSL	_____ inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W | Long ___ ___ ___

Local Grid Location (if applicable)
_____ Feet ☐N ☐S _____ Feet ☐E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	1" TAR and GRAVEL Dark Brown, SAND and GRAVEL	SP/GP									
			5											
			10	COBBLES										
			15											
			20											
			25	Medium SAND	SP									
			30											

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J:\4113\GINT\15368_ID: WDNR

4113.0020

Boring No.: AS01
Page 2 of 2

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
			40											
1	8.4	34		Brown, Medium SAND										SS
			45											
2	4.8	33												SS
				End of Boring at 48.0 ft										
			50											
			55											
			60											
			65											
			70											
			75											
			80											
			85											
			90											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☒ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		PW13/B71

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - R. O'Gorman	6/20/94	6/20/94	12 1/4" HSA and Mud Rotary 10 7/8"

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		PW13	1160.7 Feet MSL	1189.7 Feet MSL	12 inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ____ ____ ____
NW 1/4 of SE 1/4 of Section 35, T 29 N, R 7 E/W | Long ____ ____ ____

Local Grid Location (if applicable)
1368.6 Feet ☒N ☐S 1434.3 Feet ☒E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				1" Black, Tar/Stone Chip Sealer Cover	SP									
1	24	16	5	Medium Dense, Tan, Fine to Medium SAND, Trace Gravel						M				SS
2	12	19	10	Medium Dense, Medium Brown, Fine to Medium SAND, Some Gravel, Little Silt						M				SS
3	6	100/6"	15	Very Dense, Light Brown, Fine to Medium SAND and GRAVEL, Trace Silt	GP/SP					M				SS
4	12	26	20	Medium Dense, Dark Brown, Fine to Medium SAND and GRAVEL, Some Silt						M				SS
5	14	21	25	Medium Dense, Medium Brown, Fine to Medium SAND, Some Gravel, Little Silt, Strong Mineral Spirits Odor	SP-SM					M				SS

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Signature	Firm
MEH / TJK	MONTGOMERY WATSON

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J\4113\GINT\15368 ID: WDNR

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
6	36	21		Medium Dense, Dark Brown, Fine to Coarse SAND and GRAVEL, Little Silt and Clay, Strong Mineral Spirits Odor	SW/SM GW/GM					W				SS
7	18	20		Medium Dense, Dark Brown, Fine to Coarse SAND, Some Gravel, Little Silt and Clay	SW-SM					W				SS
8	18	20	35							W				SS
				Brown, Silty CLAY, Trace Sand	CL-ML									
				End of Boring at 37.0 ft (B71)										
				Note: Borehole for Well PW13 Drilled to 38.0 ft										
			40											
			45											
			50											
			55											
			60											
			65											
			70											
			75											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☒ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		PW14

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - R. O'Gorman	7/30/94	7/30/94	12 1/4" I.D. HSA and Mud Rotary 10 7/8"

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	PW14	1158.4 Feet MSL	1186.4 Feet MSL	6 inches

Boring Location
State Plane ____ N, ____ E S/C/N | Lat ____ ____ ____
NW 1/4 of SE 1/4 of Section 35, T 29 N, R 7 E/W | Long ____ ____ ____

Local Grid Location (if applicable)
1379.4 Feet ☒N ☐S 1655.0 Feet ☒E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				Earth Drilled to 25.0 ft. Refer to Log W72 for Soil Descriptions										
1	14	26	25	Medium Dense, Medium Brown, Fine to Coarse SAND and GRAVEL, Some Silt	GM/SM					W				SS
2		34	▽	Medium Dense to Dense, Medium Brown, Fine to Coarse SAND, Some Gravel, Some Silt	SM					W				SS

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Signature	Firm
TJK / VJR	MONTGOMERY WATSON

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J\4113\GINT\15368 ID: WDNR

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
3	16	24		(Grades to Fine to Coarse SAND, Little Gravel and Silt)						W				SS
4		8	35	Medium Stiff to Stiff, Light Brown, Sandy SILT (Grades to Silty CLAY, Some Sand)	ML					W				SS
5	13	11								W				SS
				End of Boring at 38.0 ft										
			40											
			45											
			50											
			55											
			60											
			65											
			70											
			75											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☒ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		W72

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - J. Weeks	6/21/94	6/21/94	4 1/4" I.D. HSA

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	W72	1154.6 Feet MSL	1183.6 Feet MSL	8.5 inches

Boring Location
State Plane ____ N, ____ E S/C/N | Lat ____ ____ ____
NW 1/4 of SE 1/4 of Section 35, T 29 N, R 7 E/W | Long ____ ____ ____

Local Grid Location (if applicable)
1381.0 Feet ☒N ☐S 1693.0 Feet ☒E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				6" ASPHALT	Asphalt									
				Crushed Rock (Base Coarse)	GM/SM									
				Medium Dense, Light Brown, Fine to Medium SAND and GRAVEL, Some Silt										
1	12	17	5							M				SS
2	8	24	10	Lighter Color						M				SS
3	18	30	15	Medium Dense, Light Brown, Fine to Medium SAND	SP					M				SS
4	12	38	20	Dense, Brown, Fine to Medium SAND, Some Silt (Grades to SM)						M				SS
5	1	100/6"	25							M				SS
			▽											

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MEH / TJK	MONTGOMERY WATSON

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J\4113\GINT\15368 ID: WDNR

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
6	12	19		Medium Dense, Dark Brown, Fine to Medium SAND, Trace Silt, Clay and Gravel	SP					W				SS
7	14	15		Medium Dense, Dark Brown, Fine to Coarse SAND and GRAVEL, Trace Silt and Clay	SP/GP					W				SS
8	12	9	35	Loose, Medium Brown, Fine to Medium, Silty SAND, Some Gravel	SM					W				SS
				End of Boring at 37.0 ft										
			40											
			45											
			50											
			55											
			60											
			65											
			70											
			75											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☒ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		B73

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - R. O'Gorman	6/21/94	6/21/94	4 1/4" I.D. HSA

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		1156.0 Feet MSL	1183.0 Feet MSL	8.5 inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ____ ____ ____
NW 1/4 of SE 1/4 of Section 35, T 29 N, R 7 E/W | Long ____ ____ ____

Local Grid Location (if applicable)
1379.0 Feet ☒N ☐S 1645.0 Feet ☒E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				Earth Drilled to 25.0 ft										
1		28	25	No Recovery - Cobble in Spoon						W				SS
2										W				SS
3		44		Dense, Brown, Fine to Coarse SAND, Some Gravel, Little Silt	SP-SM					W				SS

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TJK / VJR	MONTGOMERY WATSON

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J:\4113\GINT\15368 ID: WDNR

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
4	24	30		Medium Dense, Brown, Fine to Coarse SAND and GRAVEL, Little Silt	SP/GP					W				SS
					SM									
				Medium Dense, Brown, Fine to Coarse SAND, Some Silt, Little Gravel	SP-SM									
5	12	20	35	Medium Dense, Brown, Fine to Coarse SAND, Some Gravel, Little Silt						W				SS
				Very Stiff, Brown, Fat CLAY, Trace Gravel	CH									
				End of Boring at 36.0 ft										
			40											
			45											
			50											
			55											
			60											
			65											
			70											
			75											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☒ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wauleco Inc. 4113.0020		W70B

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - J. Weeks	6/20/94	6/20/94	4 1/4" I.D. HSA

DNR Facility Well No. / WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	W70B	1161.8 Feet MSL	1197.8 Feet MSL	6 inches

Boring Location
State Plane _____ N, _____ E S/C/N | Lat ___ ___ ___
NW 1/4 of SE 1/4 of Section 35, T 29 N, R 7 (E)W | Long ___ ___ ___

Local Grid Location (if applicable)
1271.8 Feet ☒N ☐S 1220.6 Feet ☒E ☐W

County	DNR County Code	Civil Town/City/or Village
Marathon	37	Wausau

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				1" Black Tar and Gravel Cap Loose, Brown SAND and GRAVEL, Some Cobbles	SP/GP									
1	15	7	5	Loose, Brown, Fine to Medium SAND, Some Gravel, Trace Silt	SP					M				SS
2	7	4	10	(Loose, Wood Chips Encountered)						M				SS
3	6	39	15	Very Loose to Dense, Light Brown, Fine to Medium SAND, Trace Gravel	SP					M				SS
4	16	3	20							M				SS
5	18	10	25	Loose, Light Brown, Fine to Medium SAND, Trace Silt	SP					M				SS

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J:\4113\GINT\15368 ID: WDNR

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth in Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
6	18	32		Dense, Dark Brown, Fine to Coarse SAND and GRAVEL, Little Silt and Clay	GP-GM SP-SM					M				SS
7	17	27	35	Very Stiff, Brown, Silty CLAY, Some Gravel	CL-ML					W				SS
8	3	27		Medium Dense, Brown, Silty SAND, Some Gravel	SM					W				SS
9	15	20	40	Very Stiff, Brown, Sandy SILT, Trace Gravel	ML					W				SS
10	12	32		Dense, Brown, Silty, Fine to Medium SAND, Trace Gravel	SM					W				SS
11	18	23	45	Medium Dense, Medium Brown, Clayey SAND, Little Gravel	SC					W				SS
				End of Boring at 47.0 ft										
			50											
			55											
			60											
			65											
			70											
			75											

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ■ Underground Tanks ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name Wauleco Inc. 4113.0020	Local Grid Location of Well ■ N. 1271.75 ft. ☐ S. ■ E. 1220.63 ft. ☐ W.	Well Name W70B
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. ____ Long. ____ or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11; Piezometer ■ 12	St. Plane ____ ft. N, ____ ft. E.	Date Well Installed 6/20/94
Distance Well Is From Waste/Source Boundary ____ ft.	Section Location of Waste/Source ☐ E. ☐ W.	Well Installed By: (Person's Name and Firm) R. O'Gorman - WTD Environmental Drilling M. Heyroth - Warzyn Inc.
Is Well A Point of Enforcement Std. Application? ■ Yes ☐ No	Location of Well Relative to Waste/Source u ■ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation 1200.77 ft. MSL
B. Well casing, top elevation 1200.27 ft. MSL
C. Land surface elevation 1197.8 ft. MSL
D. Surface Seal, bottom 1197.8 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ■ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ■ No

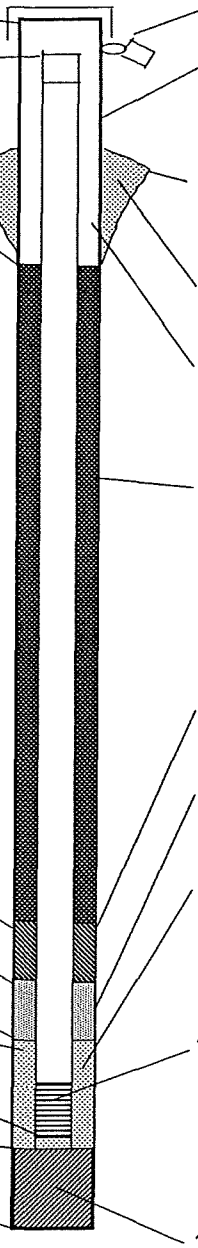
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ■ 41; Other ☐ ____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe ____

17. Source of water (attach analysis):
NA

E. Bentonite seal, top 1196.8 ft. MSL or 1.0 ft.
F. Fine sand, top NA ft. MSL or NA ft.
G. Filter pack, top 1158.3 ft. MSL or 39.5 ft.
H. Screen joint, top 1157.8 ft. MSL or 40.0 ft.
I. Well bottom 1154.3 ft. MSL or 43.5 ft.
J. Filter pack, bottom 1153.8 ft. MSL or 44.0 ft.
K. Borehole, bottom 1150.8 ft. MSL or 47.0 ft.
L. Borehole, diameter 8.5 in.
M. O.D. well casing 2.30 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 3.8 in.
b. Length: 2.5 ft.
c. Material: Steel ■ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 30; Concrete ■ 01; Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ■ ____; Other ☐ ____
5. Annular space seal: Chipped a. Granular Bentonite ■ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. ____ cu ft volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ■ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ■ 32
c. Bentonite Chips Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. NA ____
b. Volume added ____
8. Filter pack material: Manufacturer, product name & mesh size
a. Natural ____
b. Volume added ____ cu ft 200 lbs
9. Well casing: Flush threaded PVC schedule 40 ■ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____
10. Screen material: PVC slot ____
a. Screen type: Factory cut ■ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer Johnson
c. Slot size: 0.01 in.
d. Slotted length: 3.5 ft.
11. Backfill material (below filter pack): None ☐ 14; Holeplug Other ■ ____

I hereby certify that the information on this form is true and correct to the best of my knowlege.

Signature	Firm
MEH/TJK	Montgomery Watson

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Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 & 160, Wis. Stats., and ch. NR 141, Wis, Ad. Code. In accordance with Ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

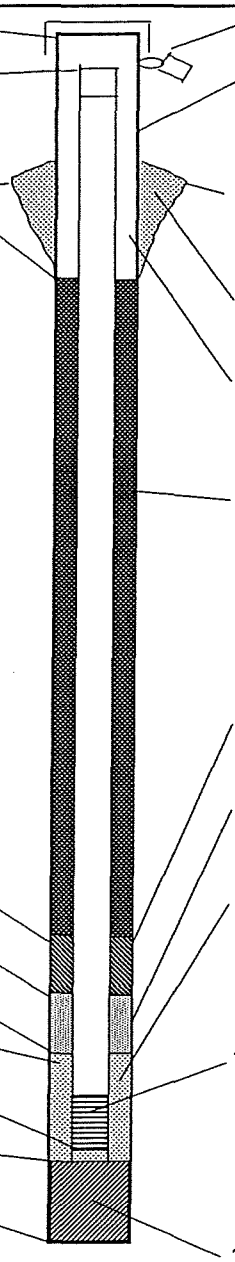
State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ■ Underground Tanks ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name Wauleco Inc. 4113.0020	Local Grid Location of Well ■ N. ■ E. 1368.58 ft. ☐ S. 1434.27 ft. ☐ W.	Well Name PW13
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. ____ Long. ____ or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11 Extraction Well ~~Piezometer~~ ■ 12	St. Plane ft. N, ft. E.	Date Well Installed 7/27/94
Distance Well Is From Waste/Source Boundary ft.	Section Location of Waste/Source ☐ E. ☐ W.	Well Installed By: (Person's Name and Firm) R. O'Gorman - WTD Environmental Drilling T. Karwoski - Warzyn Inc.
Is Well A Point of Enforcement Std. Application? ■ Yes ☐ No	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ■ Downgradient n ☐ Not Known	



A. Protective pipe, top elevation NA ft. MSL

B. Well casing, top elevation 1192.20 ft. MSL

C. Land surface elevation 1190.0 ft. MSL

D. Surface Seal, bottom 1190.0 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ■
SM ■ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ■ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
Other ☐

15. Drilling fluid used: Water ■ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ■ No
Describe ____

17. Source of water (attach analysis):
City of Wausau

E. Bentonite seal, top 1190.0 ft. MSL or Surface ft.

F. Fine sand, top 1171.0 ft. MSL or 19.0 ft.

G. Filter pack, top NA ft. MSL or NA ft.

H. Screen joint, top 1167.0 ft. MSL or 23.0 ft.

I. Well bottom 1155.0 ft. MSL or 35.0 ft.

J. Filter pack, bottom 1155.0 ft. MSL or 35.0 ft.

K. Borehole, bottom 1152.0 ft. MSL or 38.0 ft.

L. Borehole, diameter 14.5 in.

M. O.D. well casing 8.30 in.

N. I.D. well casing 8.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ■ Yes ☐ No
If yes, describe: Locked Well House

3. Surface seal: Bentonite ■ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☐ 30
Annular space seal ☐
Other ☐

5. Annular space seal: Chipped ~~a. Granular~~ Bentonite ■ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. ____ cu ft volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ■ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Chips Other ■

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co.
b. Volume added 2 bags cu ft

8. Filter pack material: Manufacturer, product name & mesh size
a. Natural
b. Volume added NA cu ft

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ☐ 24
Black Steel 8" Other ■

10. Screen material: Stainless Steel
a. Screen type: Factory cut ☐ 11
Continuous slot ■ 01
Other ☐
b. Manufacturer Johnson
c. Slot size: 0.05 in.
d. Slotted length: 12 ft.

11. Backfill material (below filter pack): None ☐ 14
5 ft Black Steel Pipe (8") Sump Other ■

I hereby certify that the information on this form is true and correct to the best of my knowlege.

Signature	Firm
MEH/TJK	Montgomery Watson

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Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 & 160, Wis. Stats., and ch. NR 141, Wis, Ad. Code. In accordance with Ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ■ Underground Tanks ☐ Other ____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name Wauleco Inc. 4113.0020	Local Grid Location of Well ■ N. ■ E. 1379.42 ft. ☐ S. 1654.96 ft. ☐ W.	Well Name PW14
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. ____ Long. ____ or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11 Extraction Well ~~Piezometer~~ ■ 12	St. Plane ft. N, ft. E.	Date Well Installed 7/25/94
Distance Well Is From Waste/Source Boundary ft.	Section Location of Waste/Source ☐ E. ☐ W.	Well Installed By: (Person's Name and Firm) R. O'Gorman - WTD Environmental Drilling T. Karwoski - Warzyn Inc.
Is Well A Point of Enforcement Std. Application? ■ Yes ☐ No	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ■ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation NA ft. MSL

B. Well casing, top elevation 1188.87 ft. MSL

C. Land surface elevation 1186.4 ft. MSL

D. Surface Seal, bottom 1186.4 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ■
SM ■ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ■ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
Other ☐ ____

15. Drilling fluid used: Water ■ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ■ No
Describe ____

17. Source of water (attach analysis):
City of Wausau

E. Bentonite seal, top 1186.4 ft. MSL or 0.0 ft.

F. Fine sand, top 1170.4 ft. MSL or 16.0 ft.

G. Filter pack, top NA ft. MSL or NA ft.

H. Screen joint, top 1166.4 ft. MSL or 20.0 ft.

I. Well bottom 1151.4 ft. MSL or 35.0 ft.

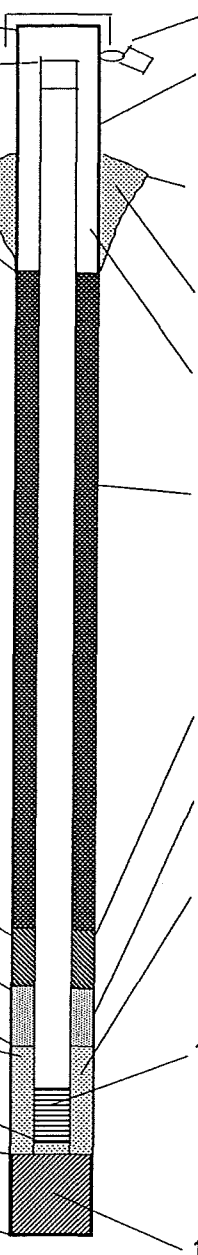
J. Filter pack, bottom NA ft. MSL or NA ft.

K. Borehole, bottom 1151.4 ft. MSL or 38.0 ft.

L. Borehole, diameter 14.5 in.

M. O.D. well casing 8.30 in.

N. I.D. well casing 8.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04
Other ☐ ____
d. Additional protection? ■ Yes ☐ No
If yes, describe: Locked Well House

3. Surface seal: Bentonite ■ 30
Concrete ☐ 01
Other ☐ ____

4. Material between well casing and protective pipe:
Bentonite ☐ 30
Annular space seal ☐ ____
Other ☐ ____

5. Annular space seal: Chipped ~~Granular~~ Bentonite ■ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. ____ cu ft volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ■ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Chips Other ■ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. ____
b. Volume added 1 1/2 BAGS

8. Filter pack material: Manufacturer, product name & mesh size
a. Natural ____
b. Volume added NA cu ft

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ☐ 24
Black Steel 8" Other ■ ____

10. Screen material: Stainless Steel ____
a. Screen type: Factory cut ☐ 11
Continuous slot ■ 01
Other ☐ ____
b. Manufacturer Johnson
c. Slot size: 0.045 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☐ 14
3 ft Black Steel Pipe (8") Sump Other ■ ____

I hereby certify that the information on this form is true and correct to the best of my knowlege.

Signature	Firm
MEH/TJK	Montgomery Watson

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Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 & 160, Wis. Stats., and ch. NR 141, Wis, Ad. Code. In accordance with Ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ■ Underground Tanks ☐ Other ____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name Wauleco Inc. 4113.0020	Local Grid Location of Well ■ N. 1368.0 ft. ☐ S. ■ E. 1434.0 ft. ☐ W.	Well Name Temperary Well W71
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. ____ Long. ____ or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11; Temporary Well; Piezometer ☐ 12	St. Plane ____ ft. N, ____ ft. E.	Date Well Installed 6/20/94
Distance Well Is From Waste/Source Boundary ____ ft.	Section Location of Waste/Source ☐ E. ☐ W.	Well Installed By: (Person's Name and Firm) J. Weeks - WTD Environmental Drilling M. Heyroth - Warzyn Inc.
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ■ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation 1192.50 ft. MSL

B. Well casing, top elevation 1192.00 ft. MSL

C. Land surface elevation 1189.5 ft. MSL

D. Surface Seal, bottom 1188.5 ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ■ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ■ 41; Other ☐ ____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe ____

17. Source of water (attach analysis):
NA

E. Bentonite seal, top NA ft. MSL or NA ft.

F. Fine sand, top NA ft. MSL or NA ft.

G. Filter pack, top NA ft. MSL or NA ft.

H. Screen joint, top 1165.5 ft. MSL or 24.0 ft.

I. Well bottom 1155.5 ft. MSL or 34.0 ft.

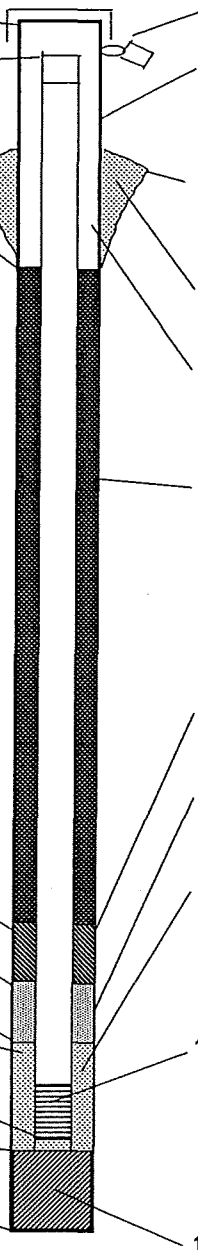
J. Filter pack, bottom 1152.5 ft. MSL or 37.0 ft.

K. Borehole, bottom 1152.5 ft. MSL or 37.0 ft.

L. Borehole, diameter 8.5 in.

M. O.D. well casing 2.30 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30; Concrete ☐ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ____; Other ☐ ____

5. Annular space seal: Chipped a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. ____ cu ft volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. Natural ____
b. Volume added ____

8. Filter pack material: Manufacturer, product name & mesh size
a. Natural ____
b. Volume added ____ cu ft

9. Well casing: Flush threaded PVC schedule 40 ■ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ■ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer Johnson
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ■ 14; Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowlege.

Signature	Firm
MEH/TJK	Montgomery Watson

J:\4113\gint\W71-MWC.xls

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 & 160, Wis. Stats., and ch. NR 141, Wis, Ad. Code. In accordance with Ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ■ Underground Tanks ☐ Other ____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name Wauleco Inc. 4113.0020	Local Grid Location of Well ■ N. ■ E. 1381 ft. ☐ S. 1693 ft. ☐ W.	Well Name Temperary Well W72
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. ____ Long. ____ or	Wis. Unique Well Number / DNR Well Number
Type of Well Water Table Observation Well ☐ 11 Temporary Well Piezometer ☐ 12	St. Plane ft. N, ft. E. Section Location of Waste/Source ☐ E. ☐ W.	Date Well Installed 6/21/94
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ■ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) J. Weeks - WTD Environmental Drilling T. Karwoski - Warzyn Inc.
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation -- ft. MSL

B. Well casing, top elevation -- ft. MSL

C. Land surface elevation -- ft. MSL

D. Surface Seal, bottom -- ft. MSL or -- ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ■ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ■ 41; Other ☐ ____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe ____

17. Source of water (attach analysis):
NA

E. Bentonite seal, top -- ft. MSL or NA ft.

F. Fine sand, top -- ft. MSL or NA ft.

G. Filter pack, top -- ft. MSL or NA ft.

H. Screen joint, top -- ft. MSL or 24.0 ft.

I. Well bottom -- ft. MSL or 34.0 ft.

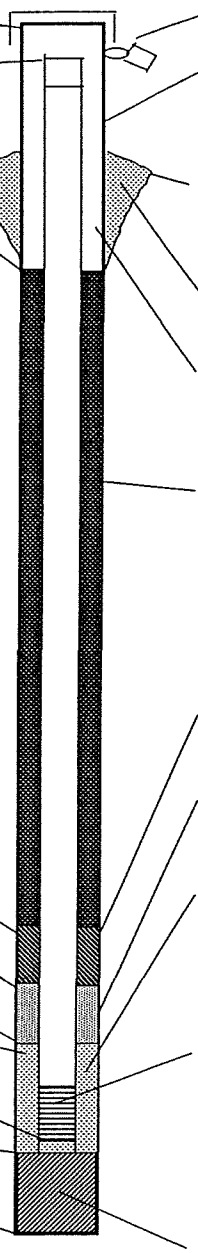
J. Filter pack, bottom -- ft. MSL or 37.0 ft.

K. Borehole, bottom -- ft. MSL or 37.0 ft.

L. Borehole, diameter 8.5 in.

M. O.D. well casing 2.30 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30; Concrete ☐ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ____; Other ☐ ____

5. Annular space seal: Chipped a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. ____ cu ft volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. Natural ____
b. Volume added ____

8. Filter pack material: Manufacturer, product name & mesh size
a. Natural ____
b. Volume added ____ cu ft

9. Well casing: Flush threaded PVC schedule 40 ■ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ■ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer Johnson
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ■ 14; Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowlege.

Signature	Firm
MEH/TJK	Montgomery Watson

J:\4113\gint\W72-MWC.xls

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 & 160, Wis. Stats., and ch. NR 141, Wis, Ad. Code. In accordance with Ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 12-91

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

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Marathon

NW 1/4 of SE 1/4 of Sec. 35 ; T 29 N; R 7 ■ E ☐ W

(If applicable) Gov't Lot ____ Grid Number ____

Grid Location: 1381.57 ft ■ N. ☐ S., 1693.17 ft. ■ E. ☐ W.

Civil Town Name: Wausau

Street Address of Well: 125 Rosecrans St.

City, Village: Wausau

(2) FACILITY NAME

Original Well Owner (If Known): Wauleco Inc.

Present Well Owner: Wauleco Inc.

Street or Route: 125 Rosecrans St.

City, State, Zip Code: Wausau, WI 54401

Facility Well No. and/or Name (If Applicable): W72 (Temporary Well)

WI Unique Well No.:

Reason for Abandonment: Was a Temporary Well

Date of Abandonment: 7/27/94

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed on

(Date) 6/21/94

■ 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.) 38 Casing Diameter (ins.) 2
(From groundsurface)

Casing Depth (ft.) 38

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 26'

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 2" PVC Sch. 40 was entirely removed

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
☐ 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.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	38	2 bags	Hydrated

(8) Comments: Bottom of well was punched out and bentonite chips added & hydrated as the well screen and casing was pulled up.

(9) Name of Person or Firm Doing Sealing Work
Rick & Troy (WTD)

Signature of Person Doing Work: MEH/TJK
Date Signed:

Street or Route: 1 Science Court
Telephone Number: (608) 231-4747

City, State, Zip Code: Madison, Wisconsin 53705

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ■ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Wauleco	Marathon	W70B
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	37	

1. Can this well be purged dry? ■ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	■ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well: 180 min.

4. Depth of well (from top of well casing): 45.5 ft.

5. Inside diameter of well: 2.00 in.

6. Volume of water in filter pack and well casing: 5.2 gal.

7. Volume of water removed from well: 55.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: NA

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 37.23 ft.	37.56 ft.
Date:	b. 6 / 22 / 94 (mm dd yy)	6 / 22 / 94 (mm dd yy)
Time:	c. 4 : 00 ☐ a.m. ■ p.m.	5 : 30 ☐ a.m. ■ p.m.
12. Sediment in well bottom:	. inches	. inches
13. Water Clarity:	Clear ☐ 10 / Turbid ■ 15 (Describe)	Clear ■ 20 / Turbid ☐ 25 (Describe)
Color	Very Brown	Light Brown
Odor	None	None
Turbidity	Heavy	Light
HNu	–	–

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	. mg/l	. mg/l
15 COD	. mg/l	. mg/l

16. Additional comments on development:

Time	pH	Cond.	Temp. deg. C
0	6.20	380	15.20
30	5.95	425	15.00
60	6.50	400	15.00
90	6.70	460	15.30
120	6.75	460	15.50

Well developed by: Person's Name and Firm

Name: Mike Heyroth, Steve Wiskes

Firm: WTD, Montgomery Watson

I hereby certify that the above information is true and correct to the best of my knowledge

Signature: _____

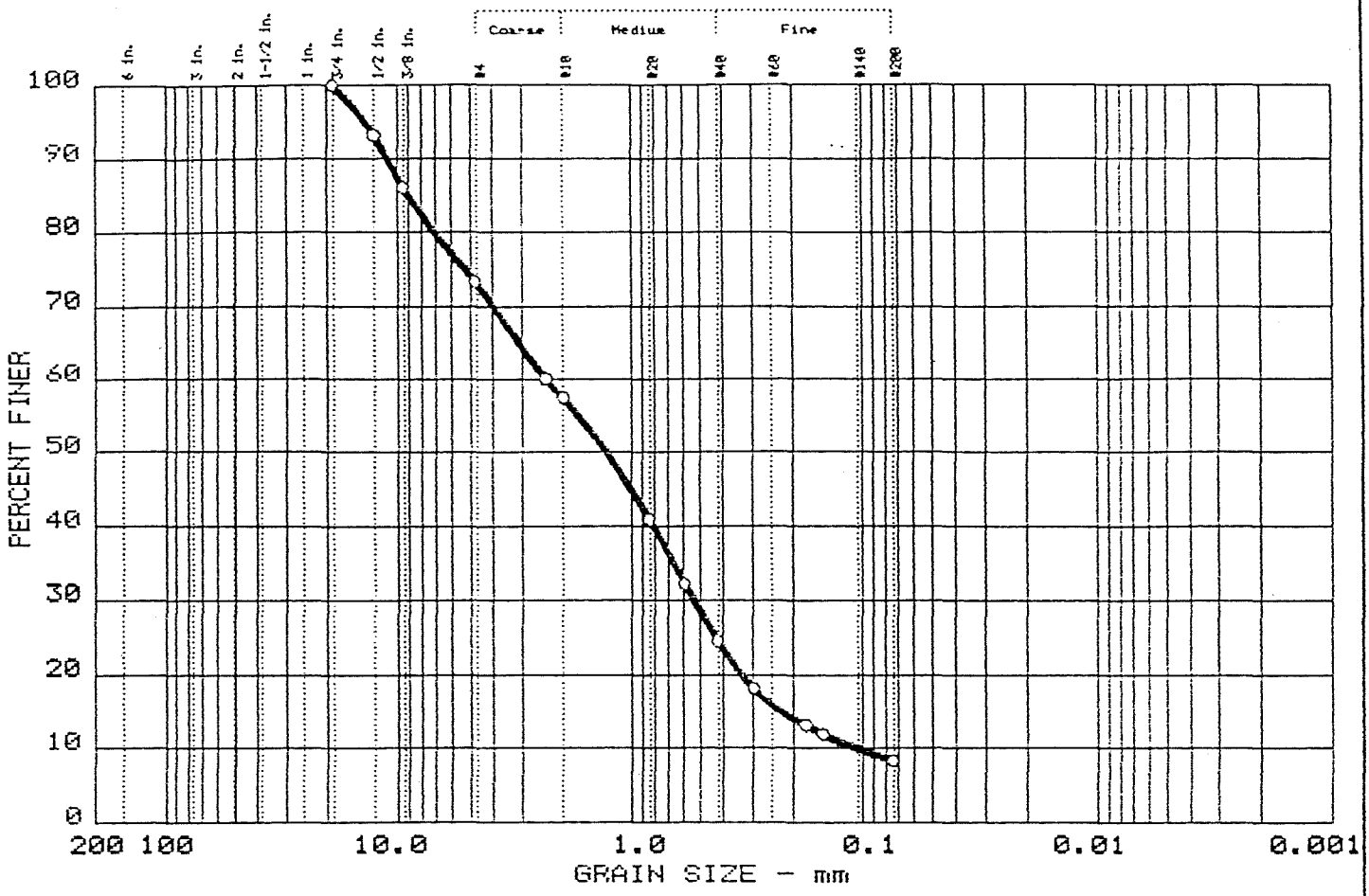
Print Initials: SGW

Firm: Montgomery Watson

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

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GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	26.7	64.9	8.4	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	9.11	2.34	1.29	0.536	0.2236	0.1046	1.17	22.4

MATERIAL DESCRIPTION	USCS
○ Dark Brown Fine-Coarse SAND, Some Gravel, Little Silt & Clay	SW-SM

Project No.: 1536813/155
Project: WAULECO, INC Wausau, Wisconsin
○ Sample: Boring W71, Sample 7 @ 32.5-34.5 Feet

Date: June 28, 1994

GRAIN SIZE DISTRIBUTION TEST REPORT

WARZYN, INC.

Remarks:

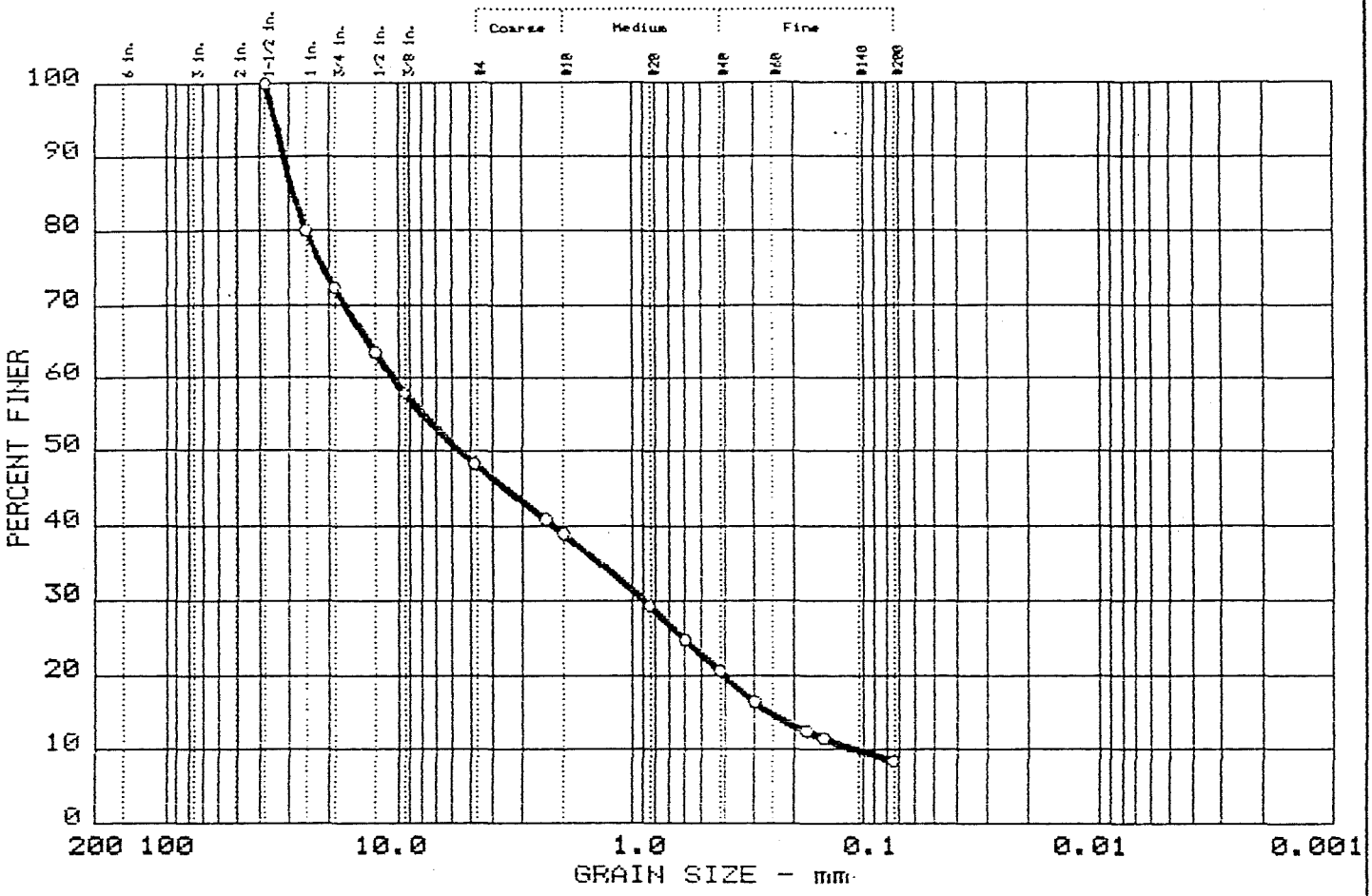
TESTED BY CLS/RT

CHECKED BY CLS

APPROVED BY VJR

Sheet No.

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	51.6	39.9	8.5	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	28.64	10.64	5.46	0.885	0.2553	0.1052	0.70	101.2

MATERIAL DESCRIPTION	USCS
○ Dark Brown Fine-Coarse SAND & GRAVEL, Little Silt and Clay	GP-GM/SP-SM

Project No.: 1536813/155
Project: WAULECO, INC Wausau, Wisconsin
○ Sample: Boring MW70B, Sample 7 @ 35-37 Feet

Date: June 28, 1994

GRAIN SIZE DISTRIBUTION TEST REPORT

WARZYN, INC.

Remarks:

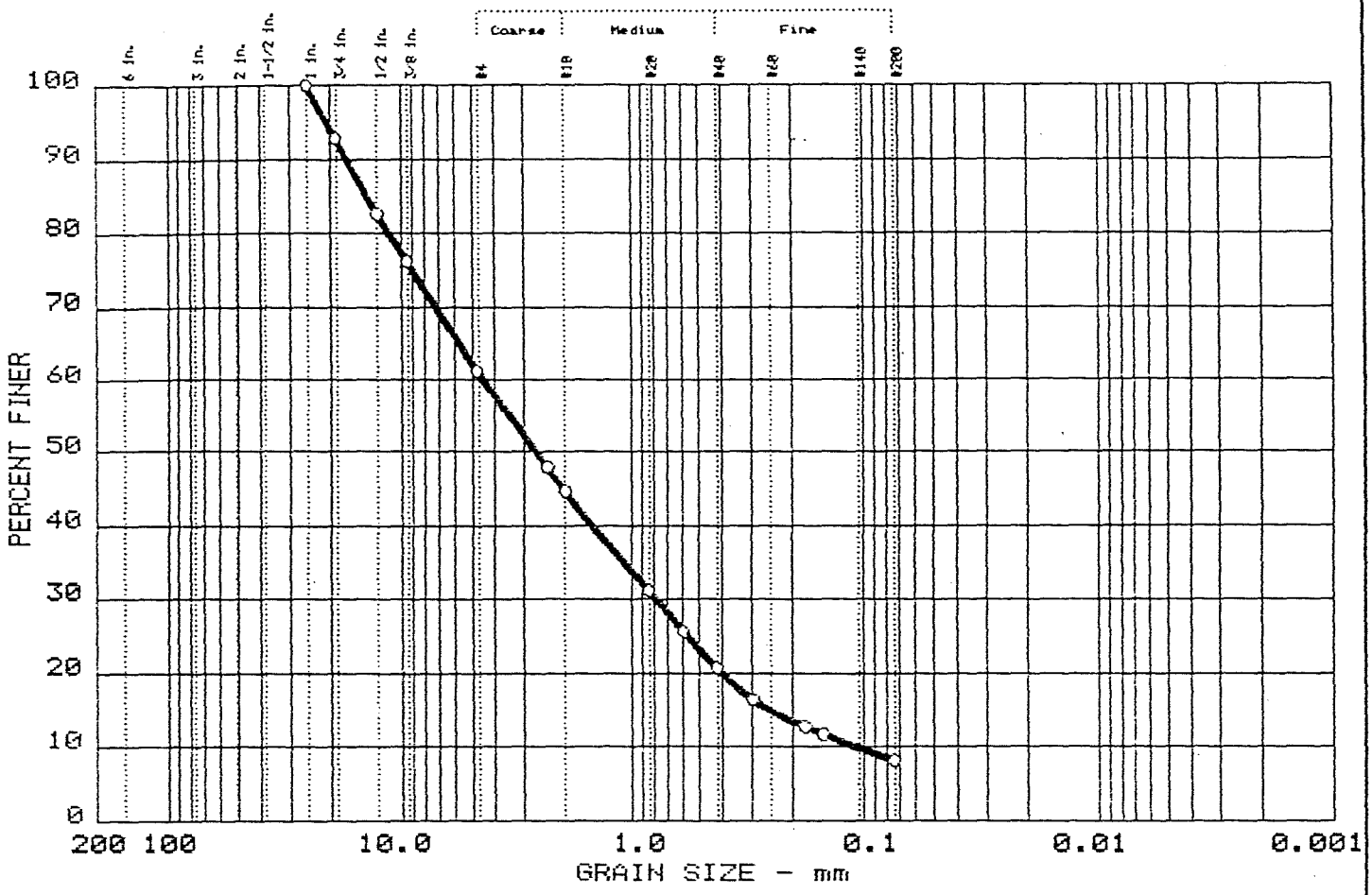
TESTED BY CLS/RT

CHECKED BY CLS

APPROVED BY JR

Sheet No.

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	38.7	53.1	8.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	13.96	4.46	2.65	0.774	0.2506	0.1045	1.29	42.7

MATERIAL DESCRIPTION	USCS
○ Dark Brown Fine-Coarse SAND & GRAVEL, Little Silt and Clay	SW-SM/GW-GM

Project No.: 1536813/155
Project: WAULECO, INC Wausau, Wisconsin
○ Sample: Boring W71, Sample 6 @ 30-32 Feet

Date: June 28, 1994

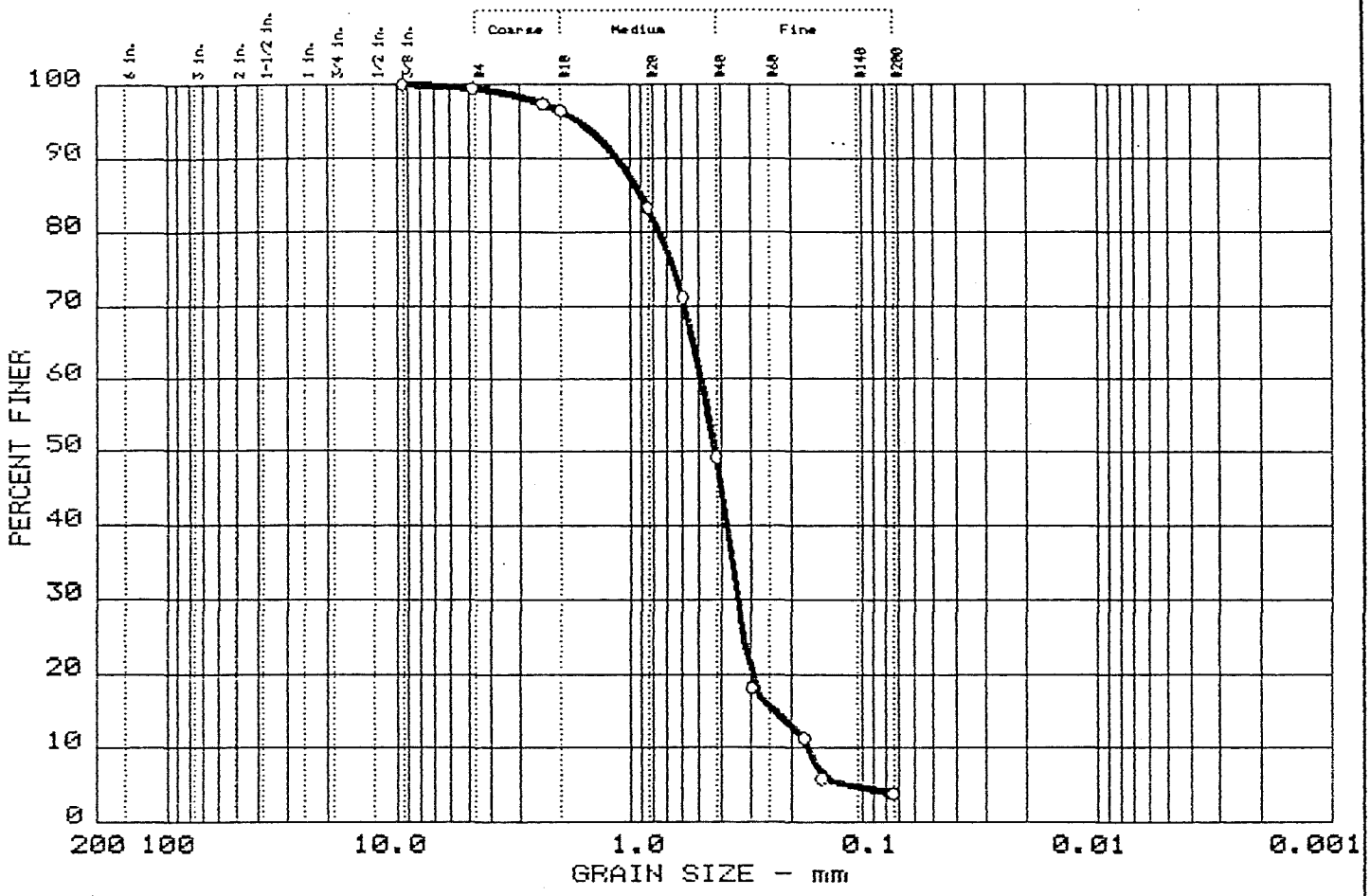
Remarks:
TESTED BY CLS/RT
CHECKED BY CLS
APPROVED BY VJK

GRAIN SIZE DISTRIBUTION TEST REPORT

WARZYN, INC.

Sheet No.

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.6	95.6	3.8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	--	--	0.90	0.49	0.42	0.339	0.2317	0.1696	1.39	2.9

MATERIAL DESCRIPTION	USCS
○ Dark Brown Fine-Medium SAND, Trace Silt, Clay and Gravel	SP

Project No.: 1536813/155
Project: WAULECO, INC Wausau, Wisconsin
○ Sample: Boring W72, Sample 6 @ 30-32 Feet

Date: June 28, 1994

GRAIN SIZE DISTRIBUTION TEST REPORT

WARZYN, INC.

Remarks:

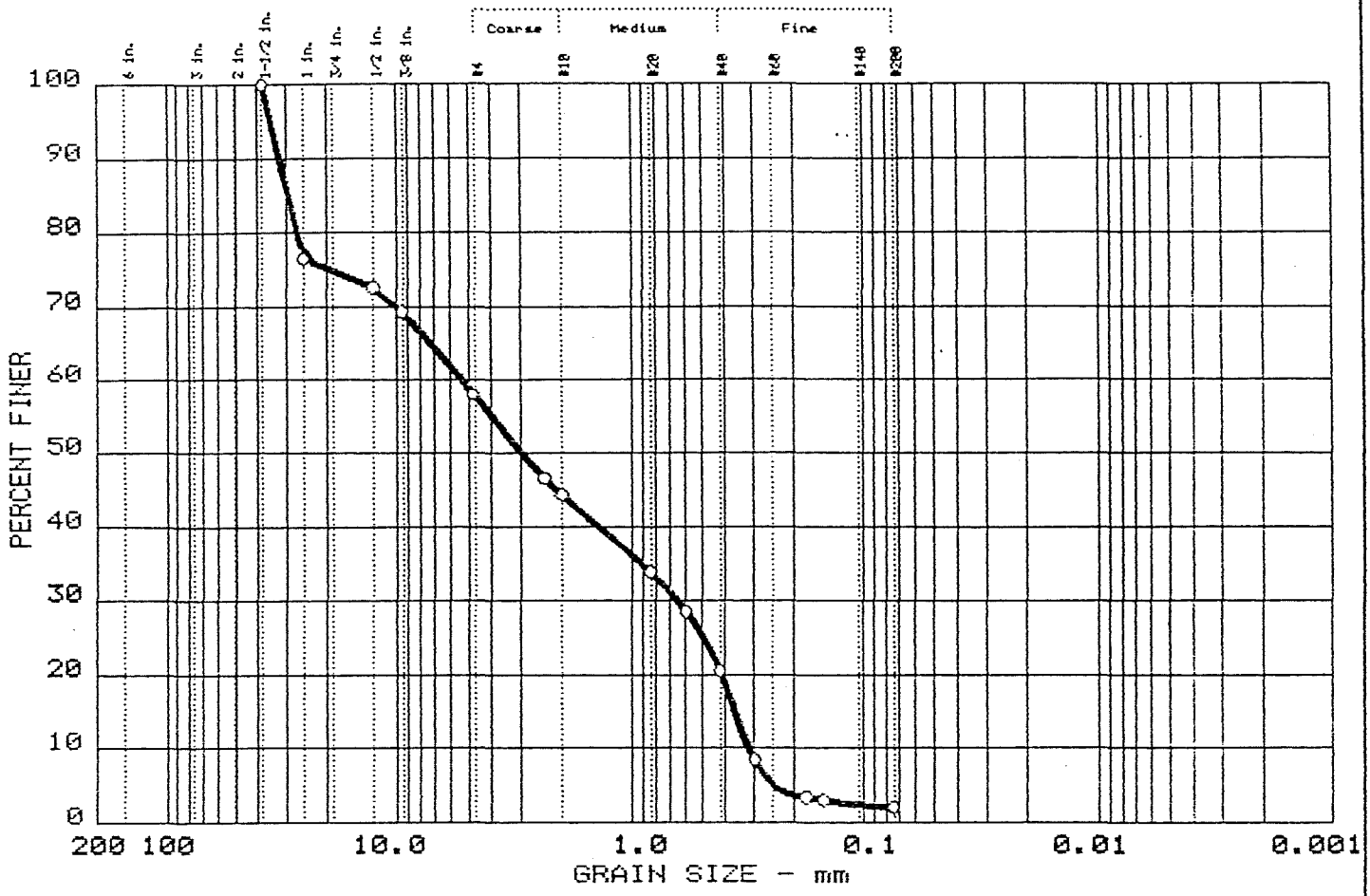
TESTED BY CLS/RT

CHECKED BY CLS

APPROVED BY VJR

Sheet No.

GRAIN SIZE DISTRIBUTION TEST REPORT



Symbol	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	41.9	56.0	2.1	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
○	--	--	29.44	5.30	2.94	0.644	0.3602	0.3122	0.25	17.0

MATERIAL DESCRIPTION	USCS
○ Dark Brown Fine-Coarse SAND & GRAVEL, Trace Silt and Clay	SP/GP

Project No.: 1536813/155
Project: WAULECO, INC Wausau, Wisconsin
○ Sample: Boring W72, Sample 7 @ 32.5-34.5 Feet

Date: June 28, 1994

GRAIN SIZE DISTRIBUTION TEST REPORT

WARZYN, INC.

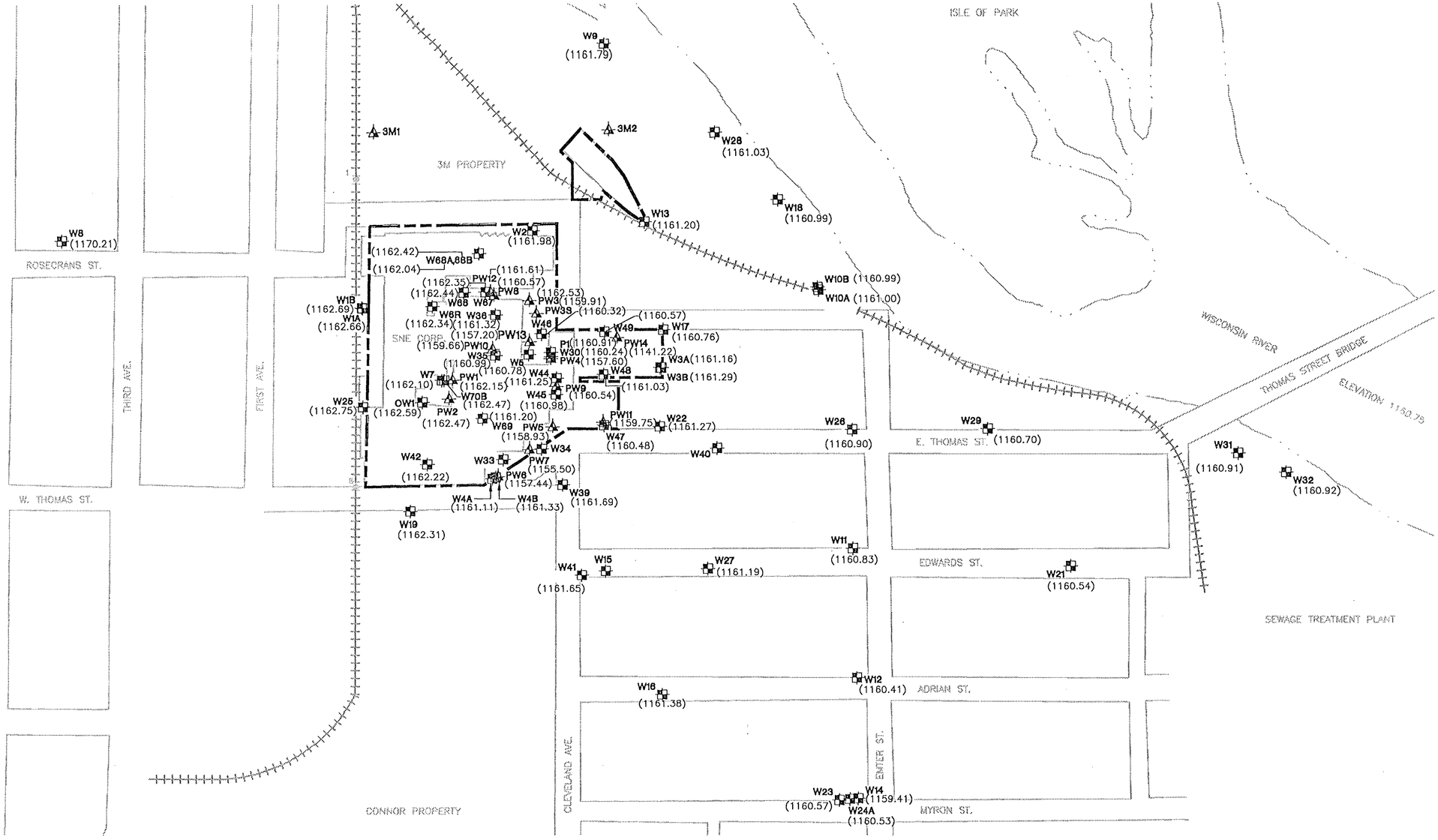
Remarks:

TESTED BY CLS/RT

CHECKED BY CLS

APPROVED BY VJR

Sheet No.



LEGEND

- W7 (1162.10) — MONITORING WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- PW5 (1158.93) — EXTRACTION WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON DECEMBER 29, 1994.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DJF	11-03-95
Lead Professional	JDD	11-15-95
Technical Review	DJB	11-03-95
PM Review		
Management Review	KJQ	11-03-95
Other		

This document has been developed for a specific application and may not be used without the written approval of Montgomery Watson.

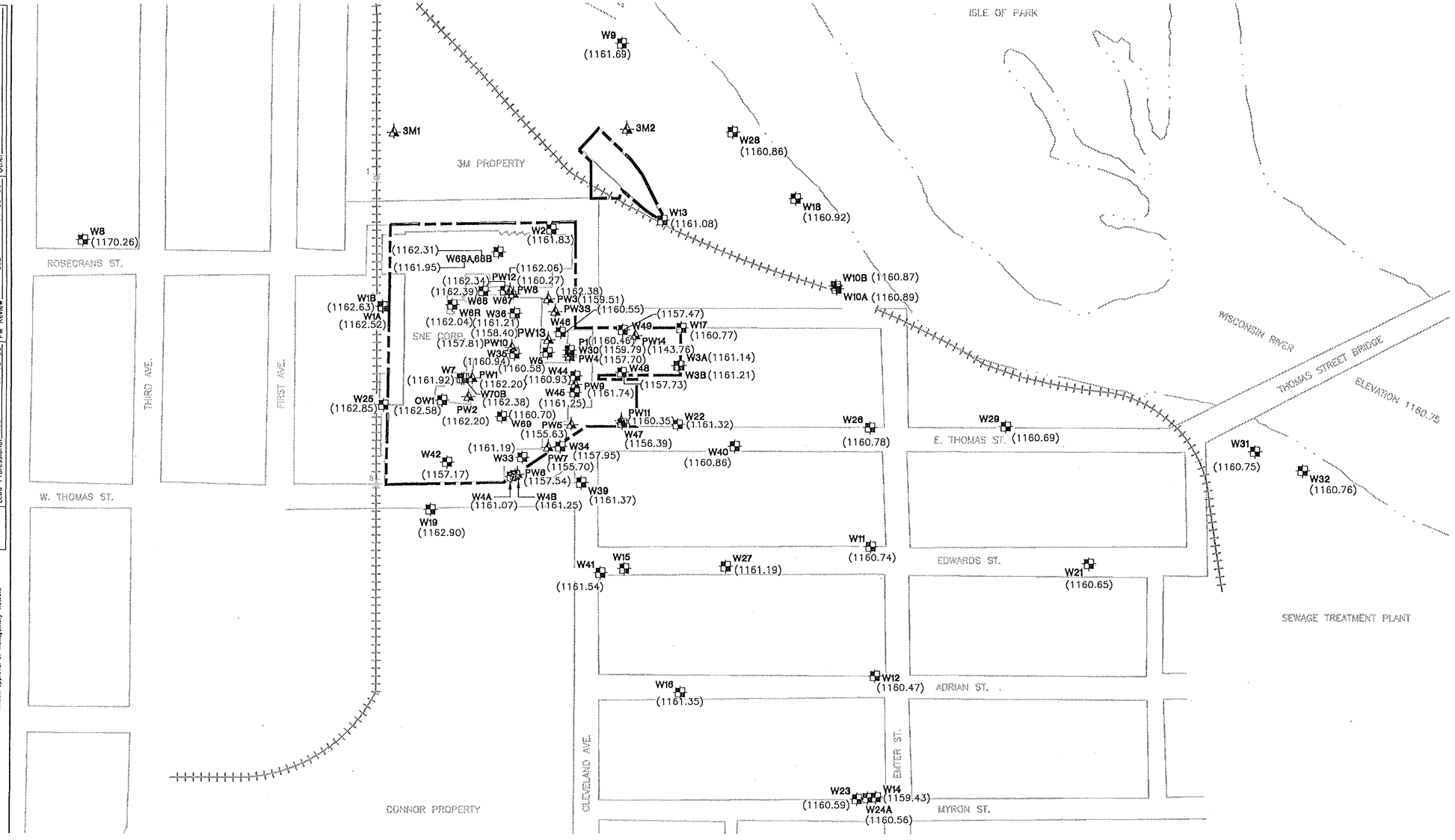
Developed By JDD
Drawn By LCL
Approved By [signature]
Date 3-5-96
Reference 1536811-B21
Revisions

WATER TABLE ELEVATIONS (DECEMBER 29, 1994)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B1

MONTGOMERY WATSON



LEGEND

- W7 (1161.92) — MONITORING WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- PW6 (1155.63) — EXTRACTION WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JUNE 30, 1995.

north

0 200 400

SCALE IN FEET

WATER TABLE ELEVATIONS (JUNE 30, 1995)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

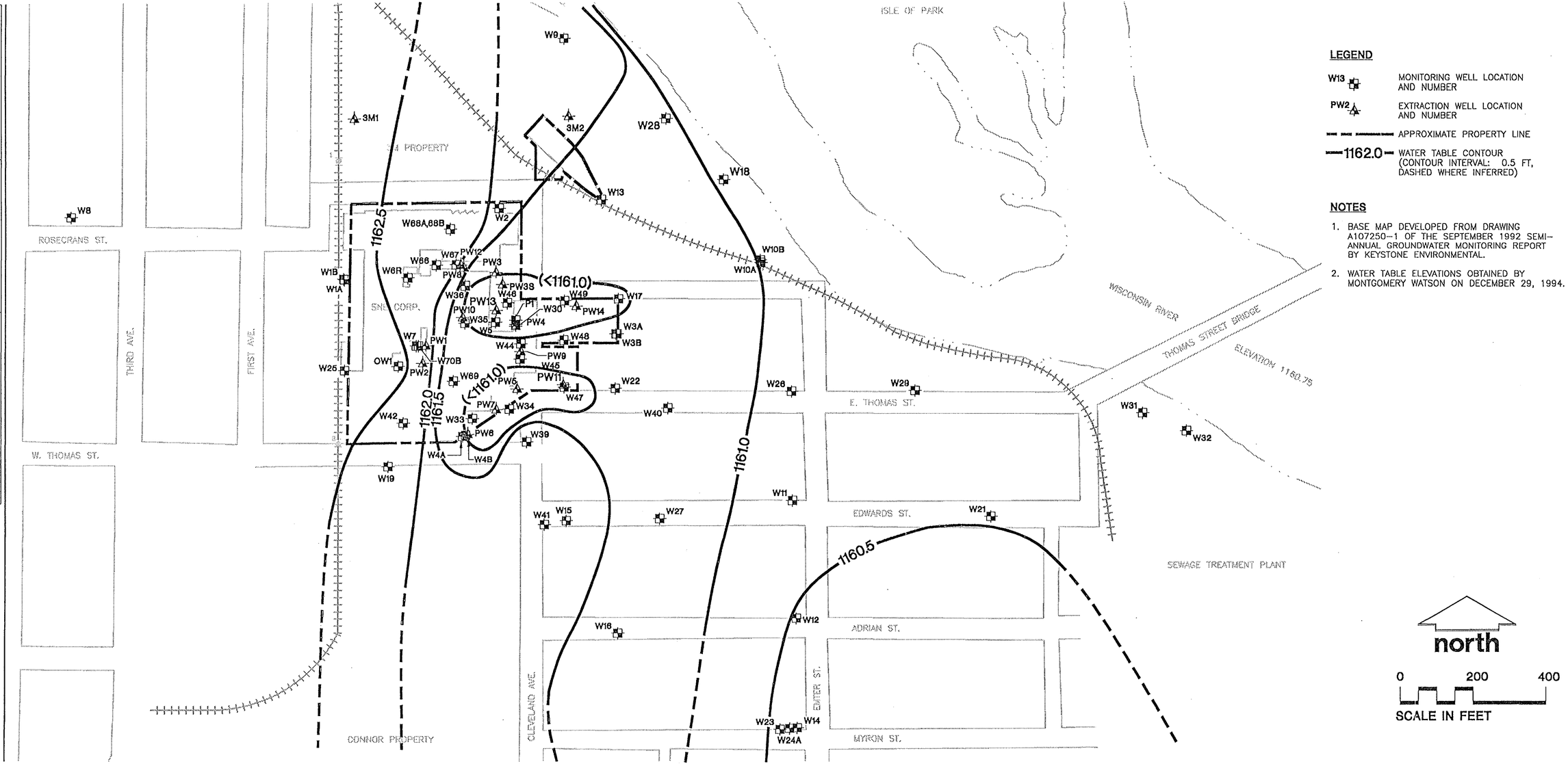
Drawing Number
4113.0020 B2

MONTGOMERY WATSON

Developed By	JDD
Drawn By	LCL
Approved By	
Date	3-5-96
Reference	1536811-B21
Revisions	

QUALITY CONTROL			
Graphic Standards	DLF	10-17-95	Technical Review DJB 11-03-95
Lead Professional	JDD	11-15-95	PM Review Management Review KJO 11-03-95
			Other

This document has been developed for a specific application and may not be used without the written approval of Montgomery Watson.



LEGEND

- W13 — MONITORING WELL LOCATION AND NUMBER
- PW2 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 1162.0 — WATER TABLE CONTOUR (CONTOUR INTERVAL: 0.5 FT, DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON DECEMBER 29, 1994.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL			
Graphic Standards	DJF	10-17-95	Technical Review
Lead Professional	JDD	11-15-95	PM Review
			Management Review
			Other

KJO	11-03-95	
DJB	11-03-95	

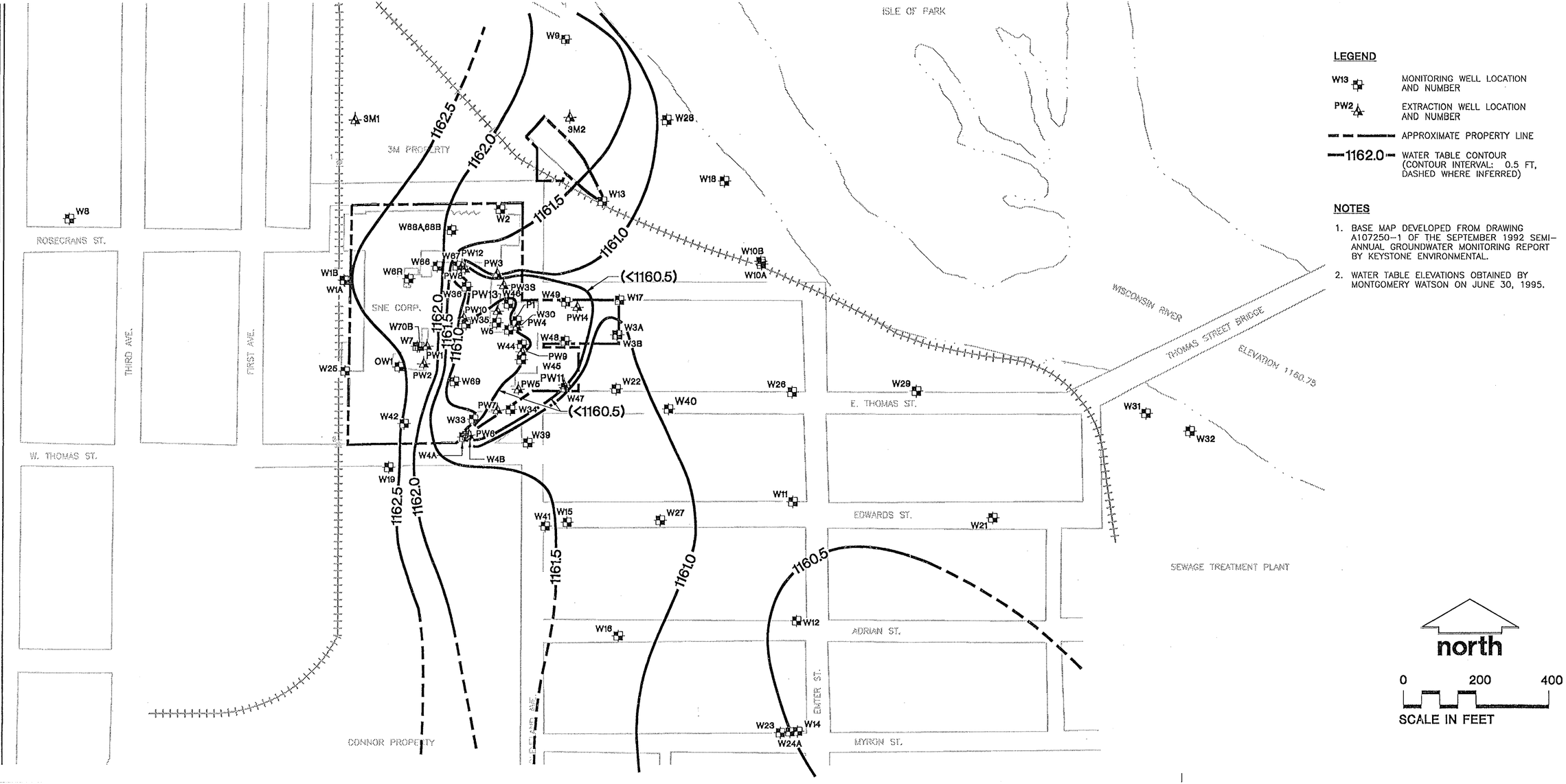
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Developed By JDD
Drawn By LCL
Approved By
Date 3-5-96
Reference 1536811-B22
Revisions

WATER TABLE MAP (DECEMBER 28, 1994)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B3

MONTGOMERY WATSON



LEGEND

- W13 — MONITORING WELL LOCATION AND NUMBER
- PW2 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 1162.0 — WATER TABLE CONTOUR (CONTOUR INTERVAL: 0.5 FT, DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JUNE 30, 1995.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL			
Graphic Standards	DLF	10-17-95	
Lead Professional	JDD	11-15-95	
Technical Review			
PM Review	DJB	11-03-95	
Management Review	KJQ	11-03-95	
Other			

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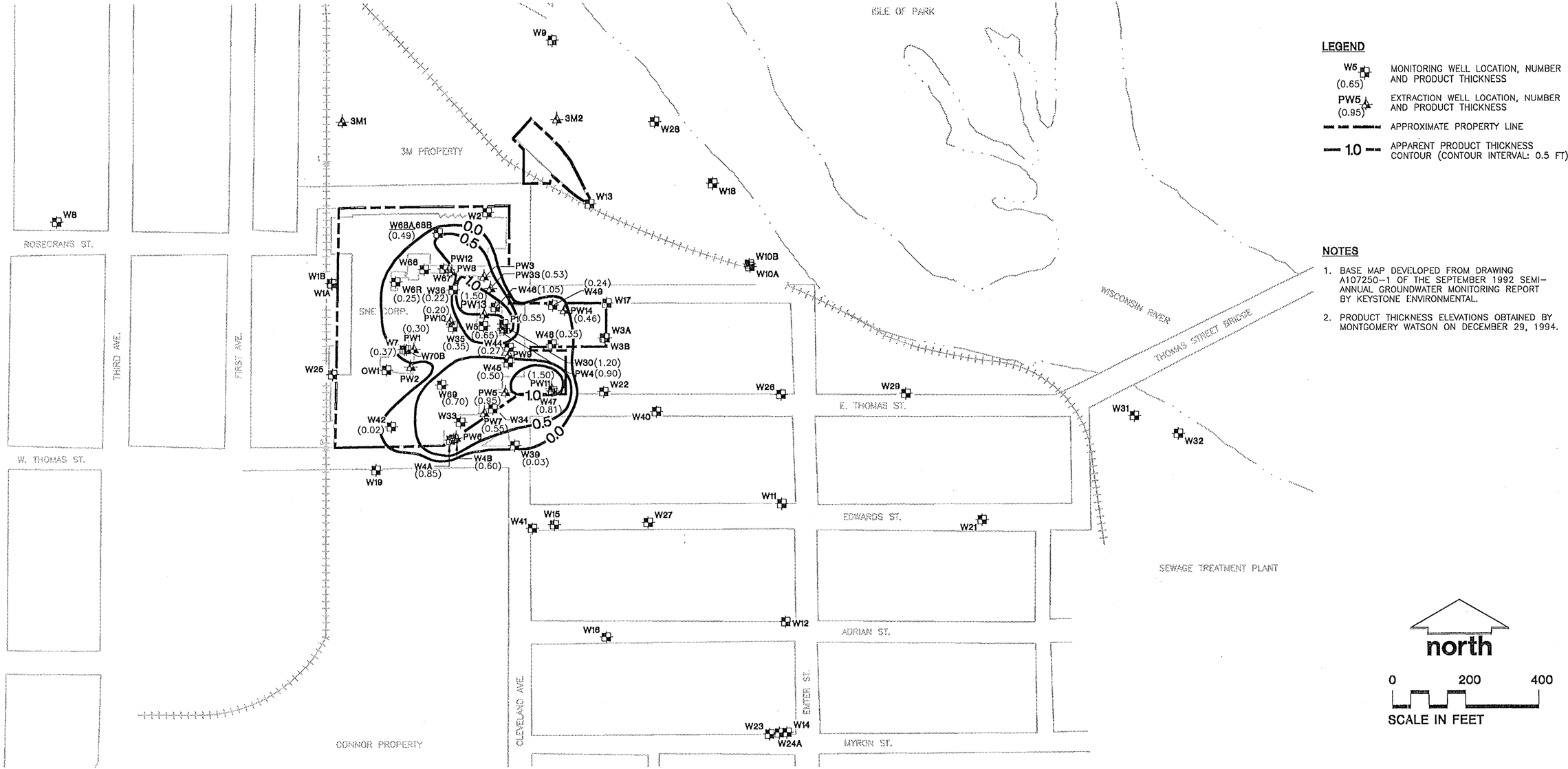
Developed By JDD
Drawn By LCL
Approved By
Date 3-5-96
Reference 6536811-B22
Revisions

WATER TABLE MAP (JUNE 30, 1995)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B4

MONTGOMERY WATSON



LEGEND

- W6 (0.65) — MONITORING WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- PW5 (0.95) — EXTRACTION WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- APPROXIMATE PROPERTY LINE
- 1.0 — APPARENT PRODUCT THICKNESS CONTOUR (CONTOUR INTERVAL: 0.5 FT)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. PRODUCT THICKNESS ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON DECEMBER 29, 1994.

QUALITY CONTROL	Graphic Standards	DLF	10-17-95	Technical Review	DJB	11-03-95	Management Review	KJO	11-03-95
	Lead Professional	JDD	11-15-95	PM Review			Other		

This document has been developed for a specific application and purpose and should not be used without the written approval of Montgomery Watson.

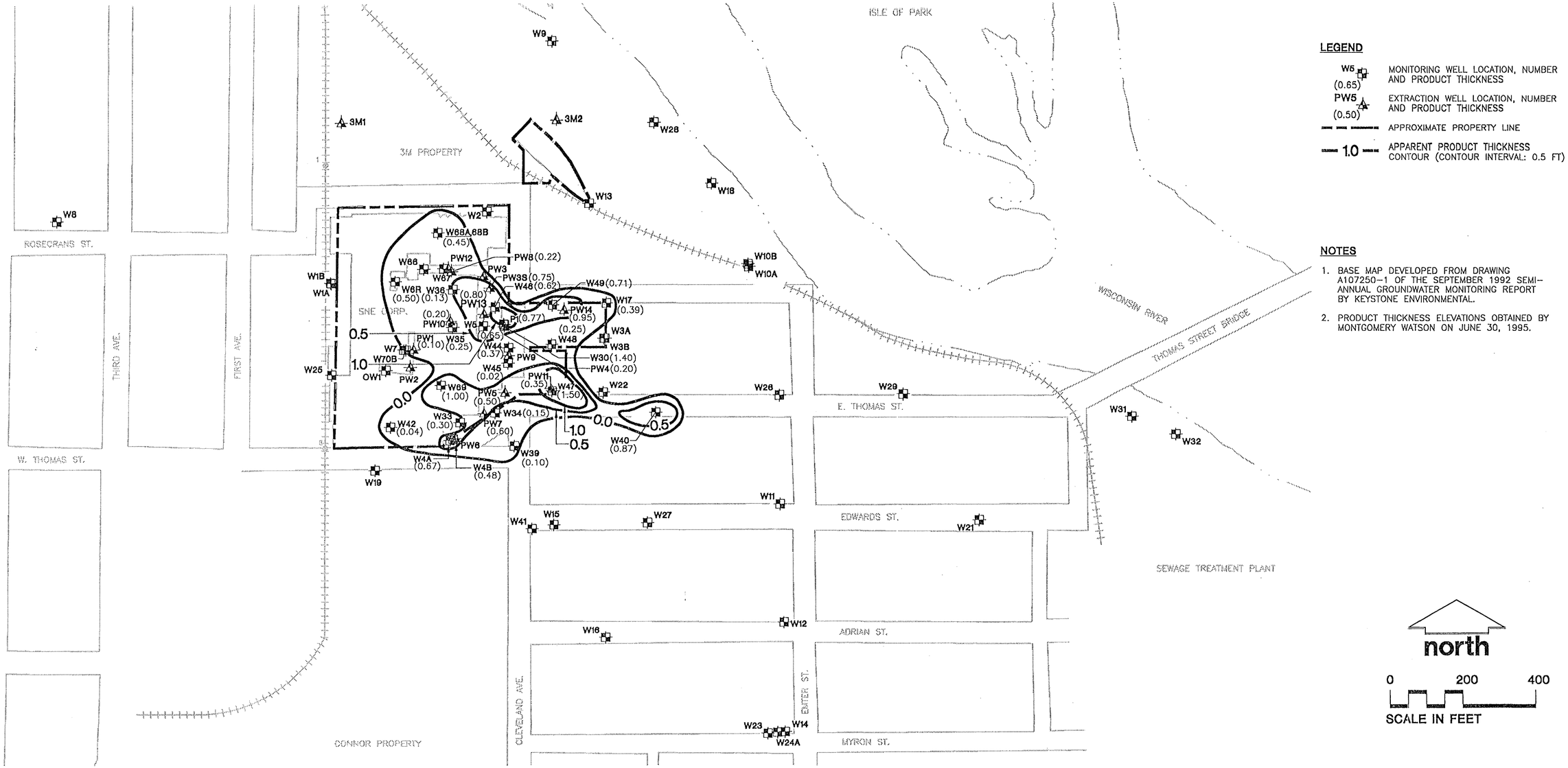
Developed By JDD
Drawn By LCL
Approved By
Date 3-5-96
Reference 1536811-B23
Revisions

PRODUCT THICKNESS MAP (DECEMBER 29, 1994)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B5

MONTGOMERY WATSON



LEGEND

- W5 (0.65) — MONITORING WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- PW5 (0.50) — EXTRACTION WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- APPROXIMATE PROPERTY LINE
- 1.0 — APPARENT PRODUCT THICKNESS CONTOUR (CONTOUR INTERVAL: 0.5 FT)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250–1 OF THE SEPTEMBER 1992 SEMI–ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. PRODUCT THICKNESS ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JUNE 30, 1995.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL								
Graphic Standards	DLF	10–17–95	Technical Review	DJB	11–03–95	Management Review	KJO	11–03–95
Lead Professional	JDD	11–15–95	PM Review			Other		

This document has been developed for a specific project and should not be used without the written approval of Montgomery Watson.

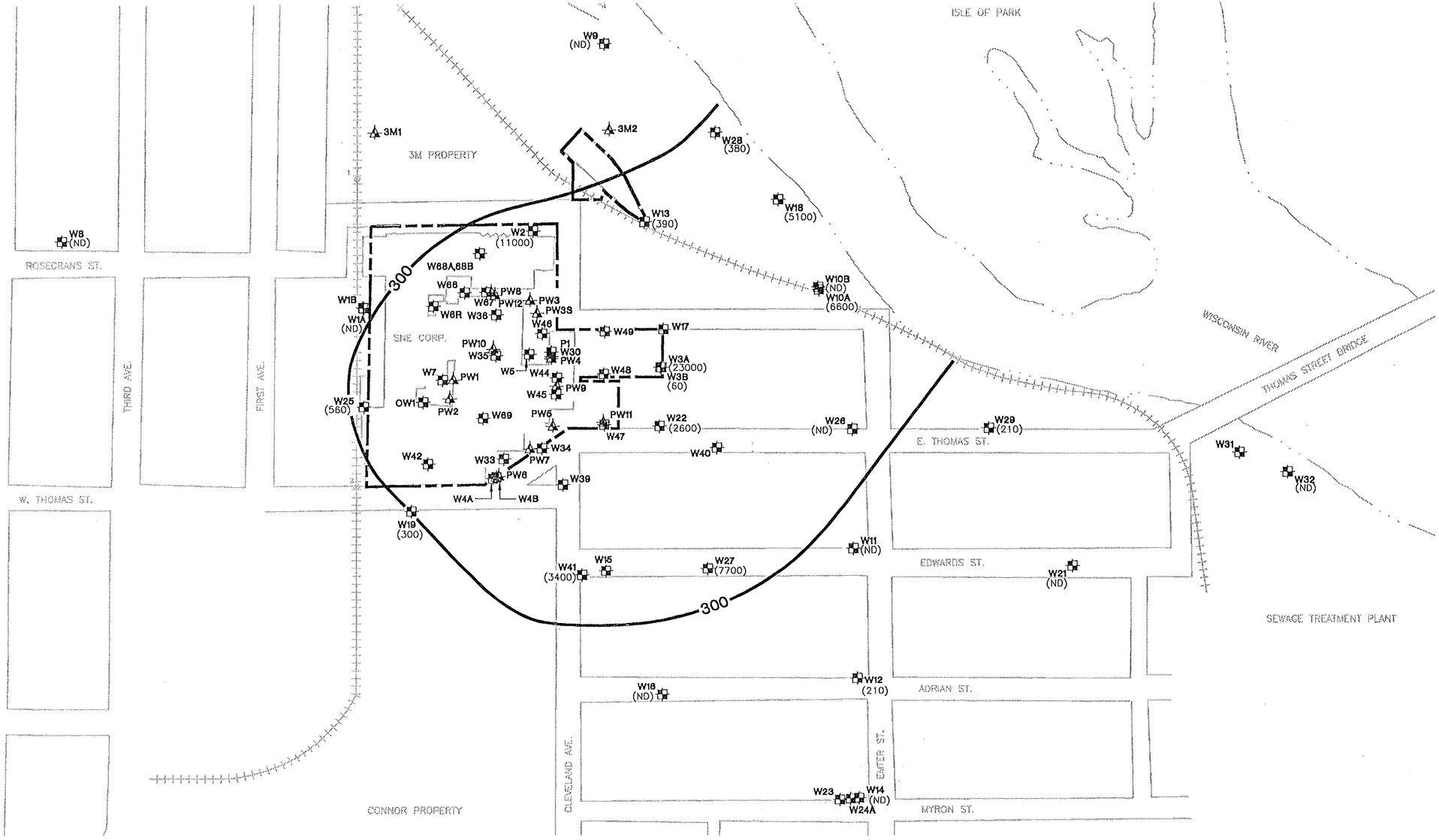
Developed By JDD
Drawn By LCL
Approved By
Date 3-5-96
Reference 1536811-B23
Revisions

PRODUCT THICKNESS MAP (JUNE 30, 1995)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B6

MONTGOMERY WATSON



LEGEND

- W8 (ND) — MONITORING WELL LOCATION, NUMBER AND PCP CONCENTRATION
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 300 — PCP ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.
4. ELEVATED DETECTION LIMIT AT W26: PCP CONCENTRATION <5000 ug/L.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF	10-17-95
Lead Professional	JDD	11-15-95
Technical Review	DJB	11-03-95
PM Review		
Management Review	KJQ	11-03-95
Other		

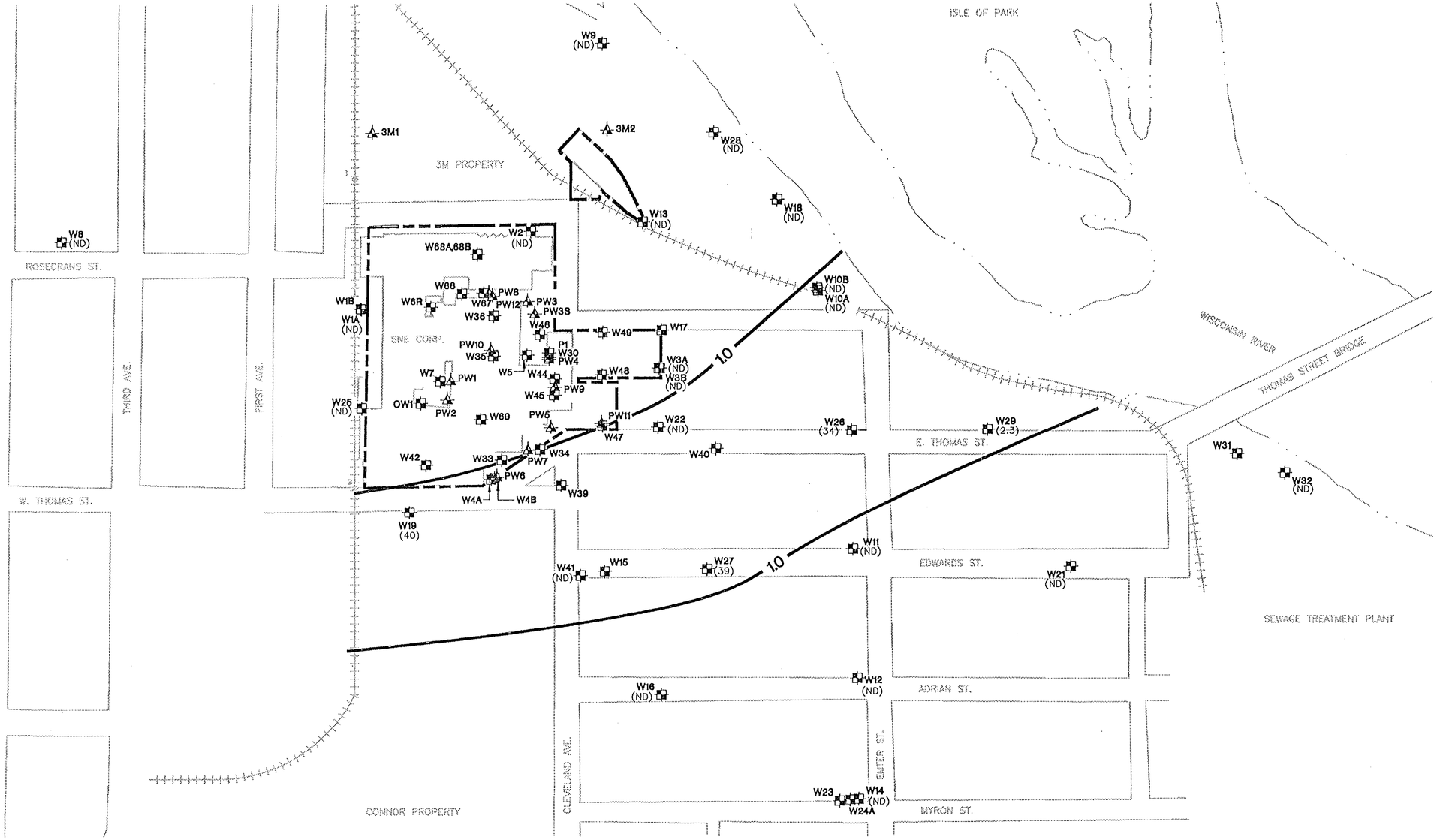
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Developed By JDD
Drawn By DLF
Approved By
Date 2-5-96
Reference
Revisions

PCP ISOCONCENTRATION MAP (JULY 1995)
1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B7

MONTGOMERY WATSON



LEGEND

- W9 (ND) — MONITORING WELL LOCATION, NUMBER AND BENZENE CONCENTRATION
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- —1.0— BENZENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.
4. ELEVATED DETECTION LIMIT FOR BENZENE AT WELLS W10A (<10 ug/L), W22 (<20 ug/L), AND W41 (<20 ug/L).

north

0 200 400

SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF	10-17-95	
Lead Professional	JDD	11-15-95	
Technical Review	DJB	11-03-95	
PM Review			
Management Review	KJQ	11-03-95	
Other			

This document has been developed for a specific application and purpose and should not be used without written approval of Montgomery Watson.

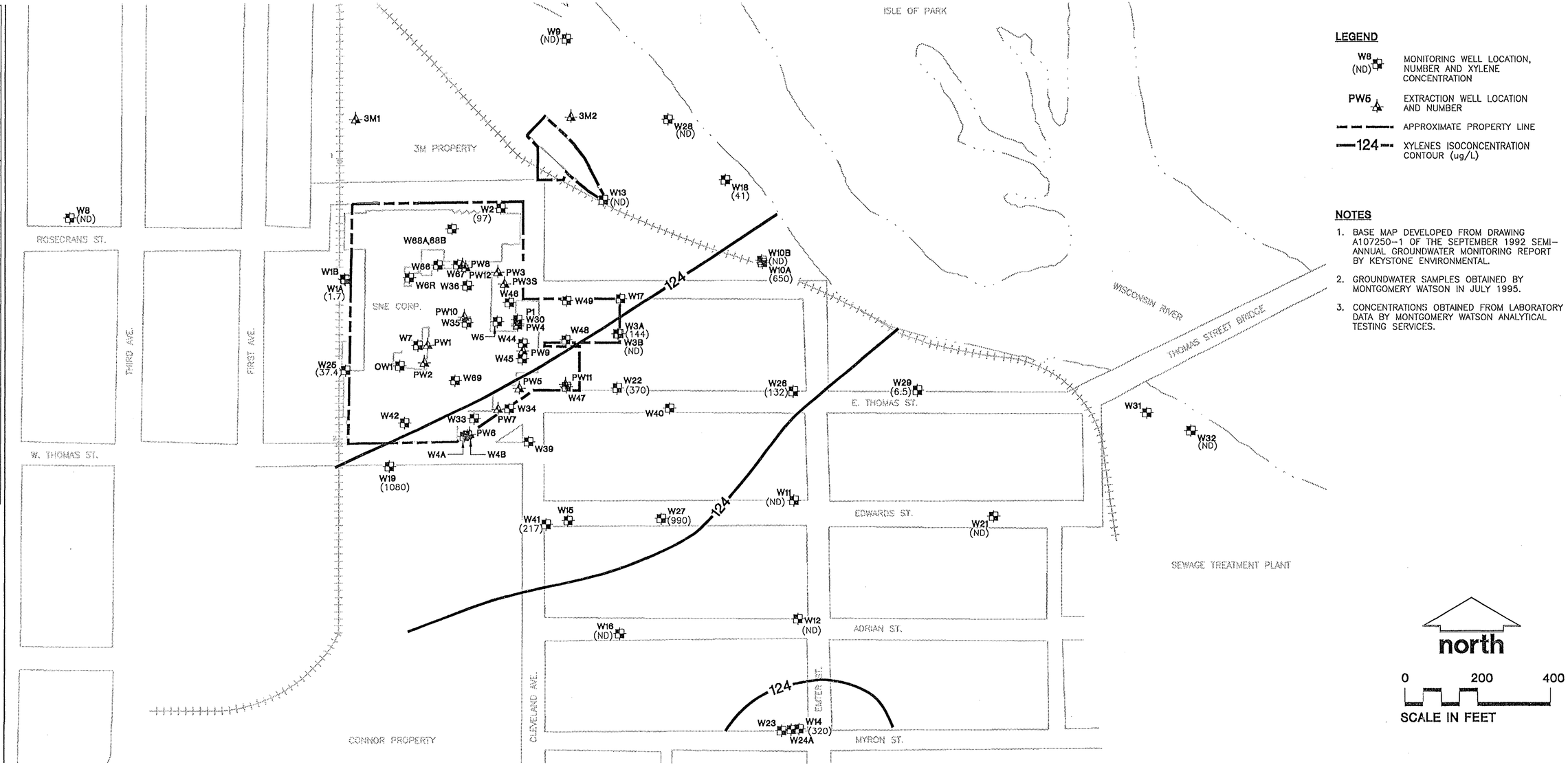
Developed By JDD
Drawn By DLF
Approved By
Date 3-5-96
Reference
Revisions

BENZENE ISOCONCENTRATION MAP (JULY 1995)

1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B8

MONTGOMERY WATSON



LEGEND

- W8 (ND) — MONITORING WELL LOCATION, NUMBER AND XYLENE CONCENTRATION
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 124 — XYLENES ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF	10-17-95
Lead Professional	JDD	11-15-95
Technical Review	DJB	11-03-95
PM Review		
Management Review	KJO	11-03-95
Other		

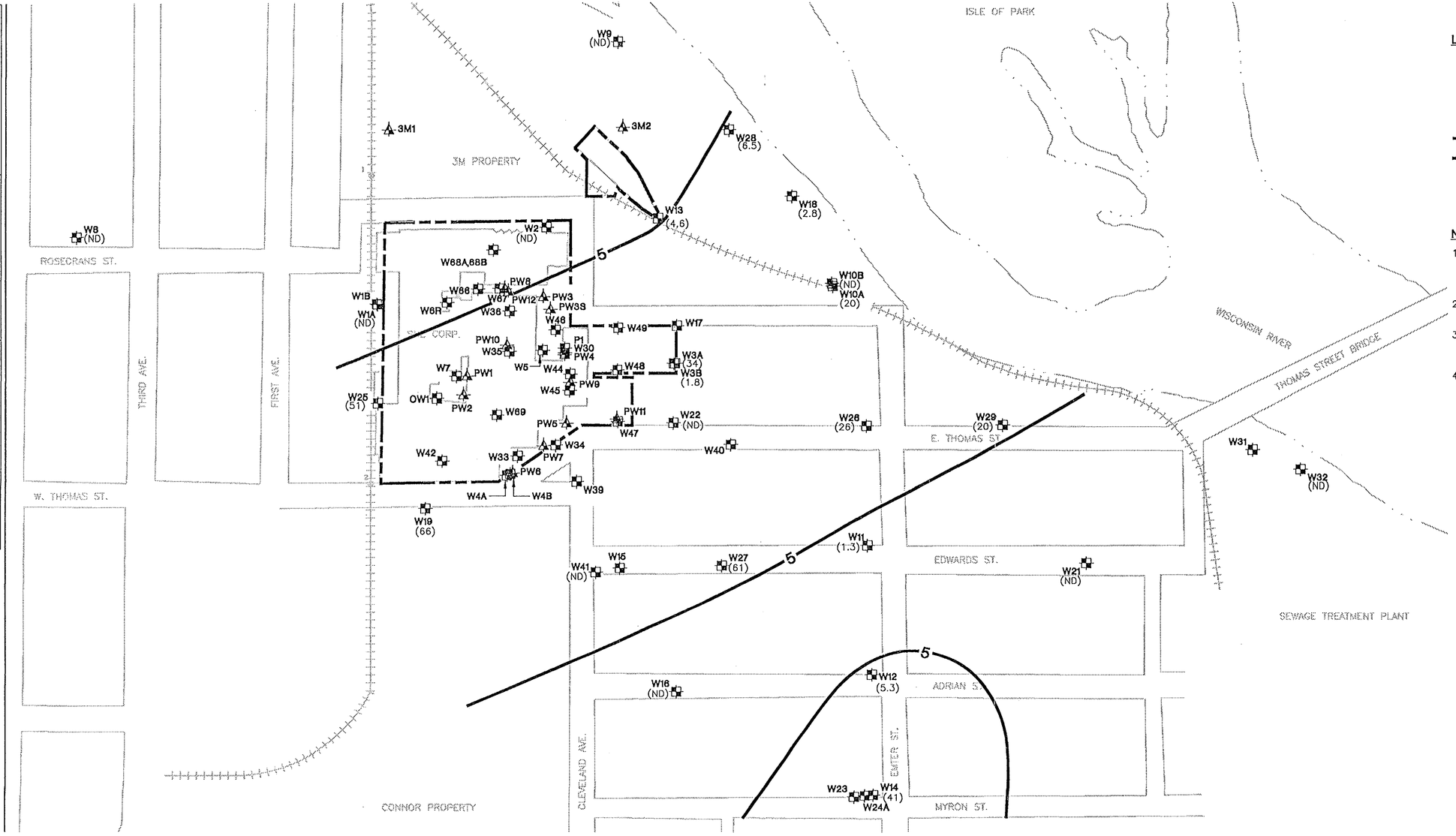
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Developed By JDD
Approved By
Drawn By DLF
Date 3.5.96
Reference
Revisions

XYLENES ISOCONCENTRATION MAP (JULY 1995)
1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B9

MONTGOMERY WATSON



LEGEND

- W8 (ND) — MONITORING WELL LOCATION, NUMBER AND XYLENE CONCENTRATION
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 5 — TRICHLOROETHYLENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250--1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.
4. ELEVATED DETECTION LIMIT FOR TRICHLOROETHYLENE AT WELLS W22 (<20 ug/L) AND W41 (<20 ug/L).

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SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF	10-17-95	
Lead Professional	JDD	11-15-95	
Technical Review	DJB	11-03-95	
PM Review			
Management Review	KJQ	11-03-95	
Other			

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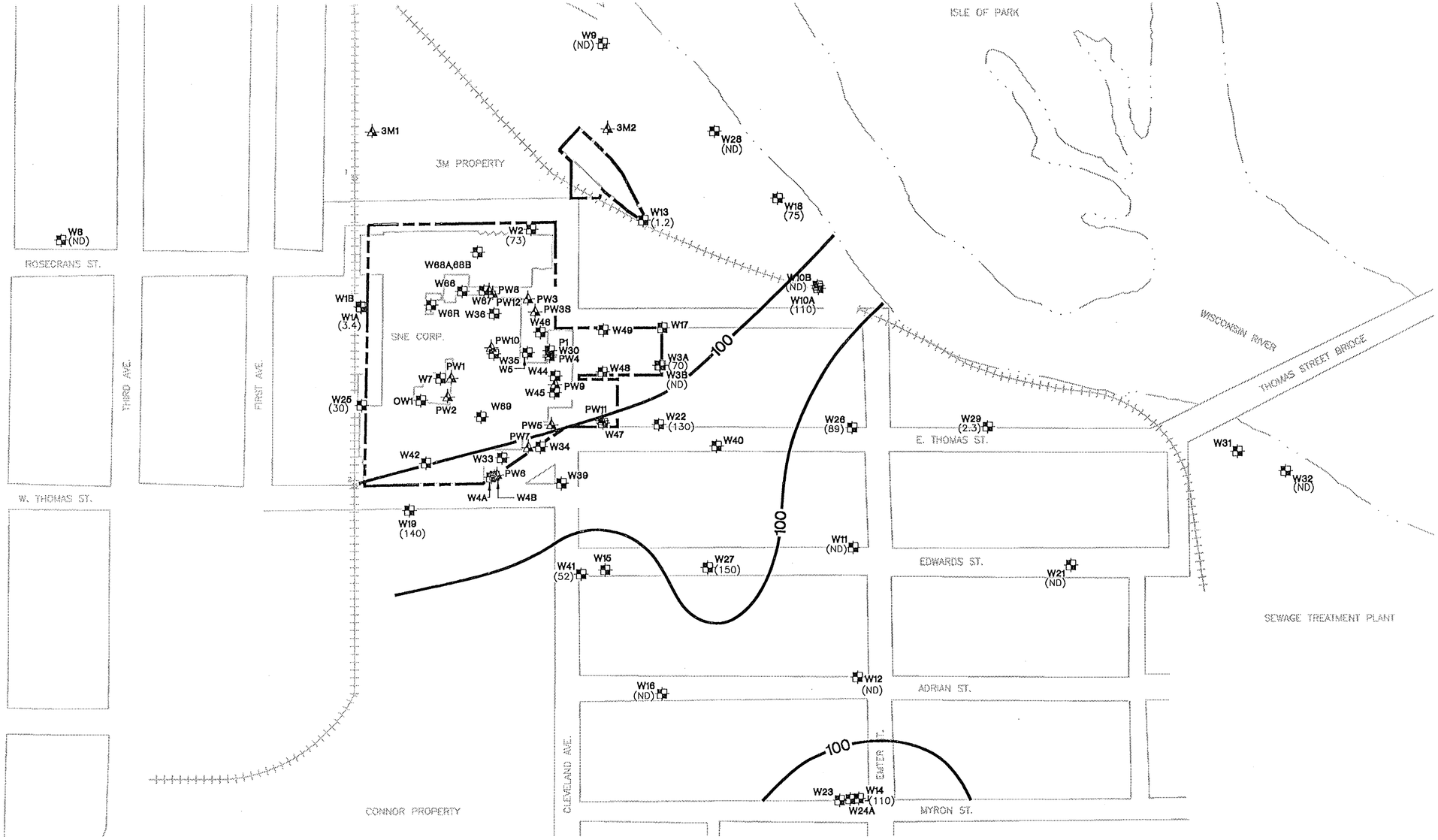
Developed By JDD
Drawn By DLF
Approved By
Date 3.5.96
Reference
Revisions

TRICHLOROETHYLENE ISOCONCENTRATION MAP (JULY 1995)

1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020B10

MONTGOMERY WATSON



LEGEND

- W8 (ND) — MONITORING WELL LOCATION, NUMBER AND TRPH CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- —100— NAPHTHALENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.

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SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF	10-17-95	
Lead Professional	JDD	11-15-95	
Technical Review		11-03-95	DJB
PM Review			
Management Review	KJQ	11-03-95	
Other			

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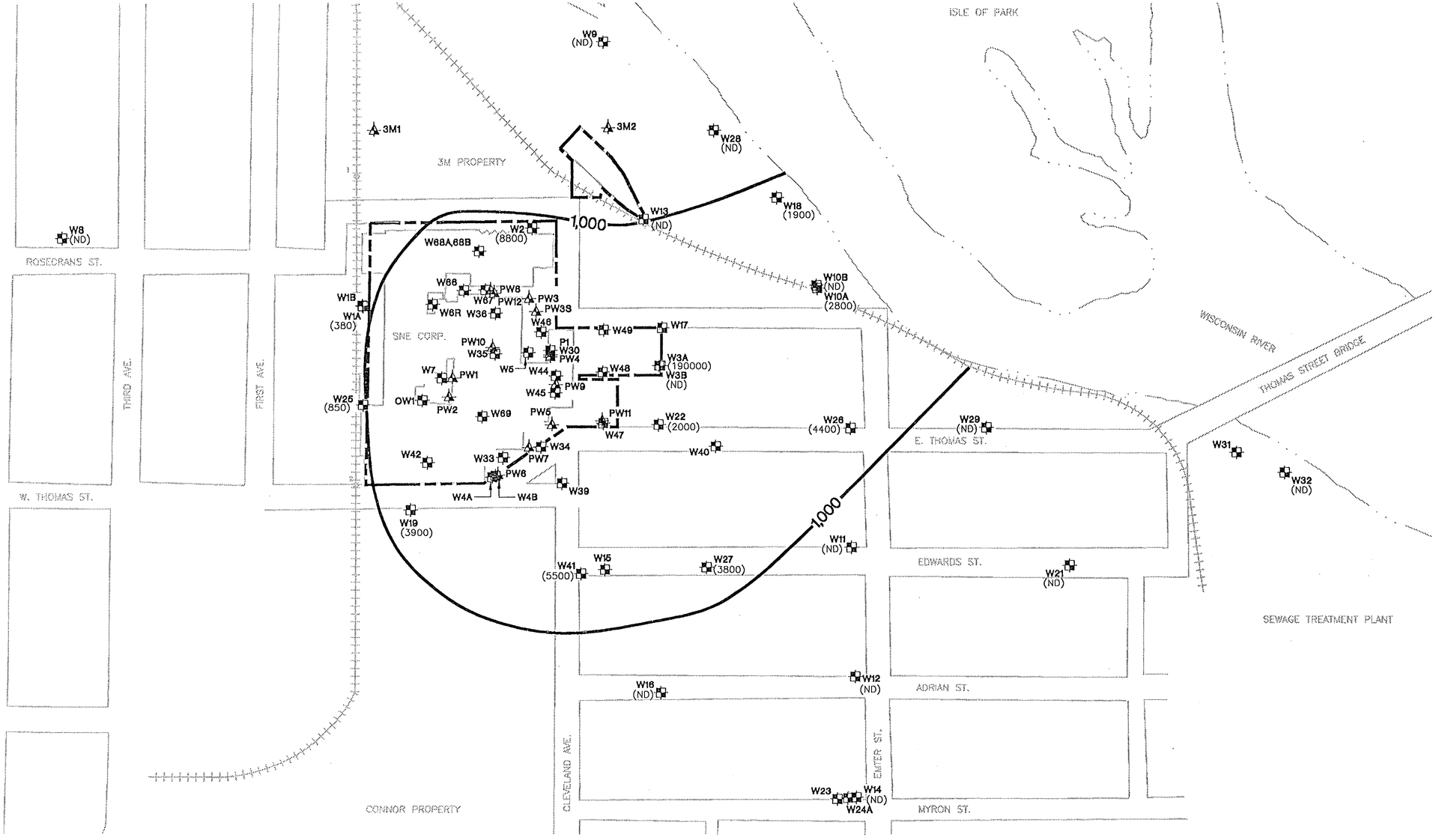
Developed By JDD
Approved By
Reference
Revisions
Drawn By DLF
Date 3-5-96

NAPHTHALENE ISOCONCENTRATION MAP (JULY 1995)

1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020 B11

MONTGOMERY WATSON



LEGEND

- W8 (ND) — MONITORING WELL LOCATION, NUMBER AND TRPH CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 1,000 — TRPH ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.

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SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF	10-17-95	
Lead Professional	JDD	11-15-95	
Technical Review		11-03-95	
PM Review	DJB		
Management Review	KJO	11-03-95	
Other:			

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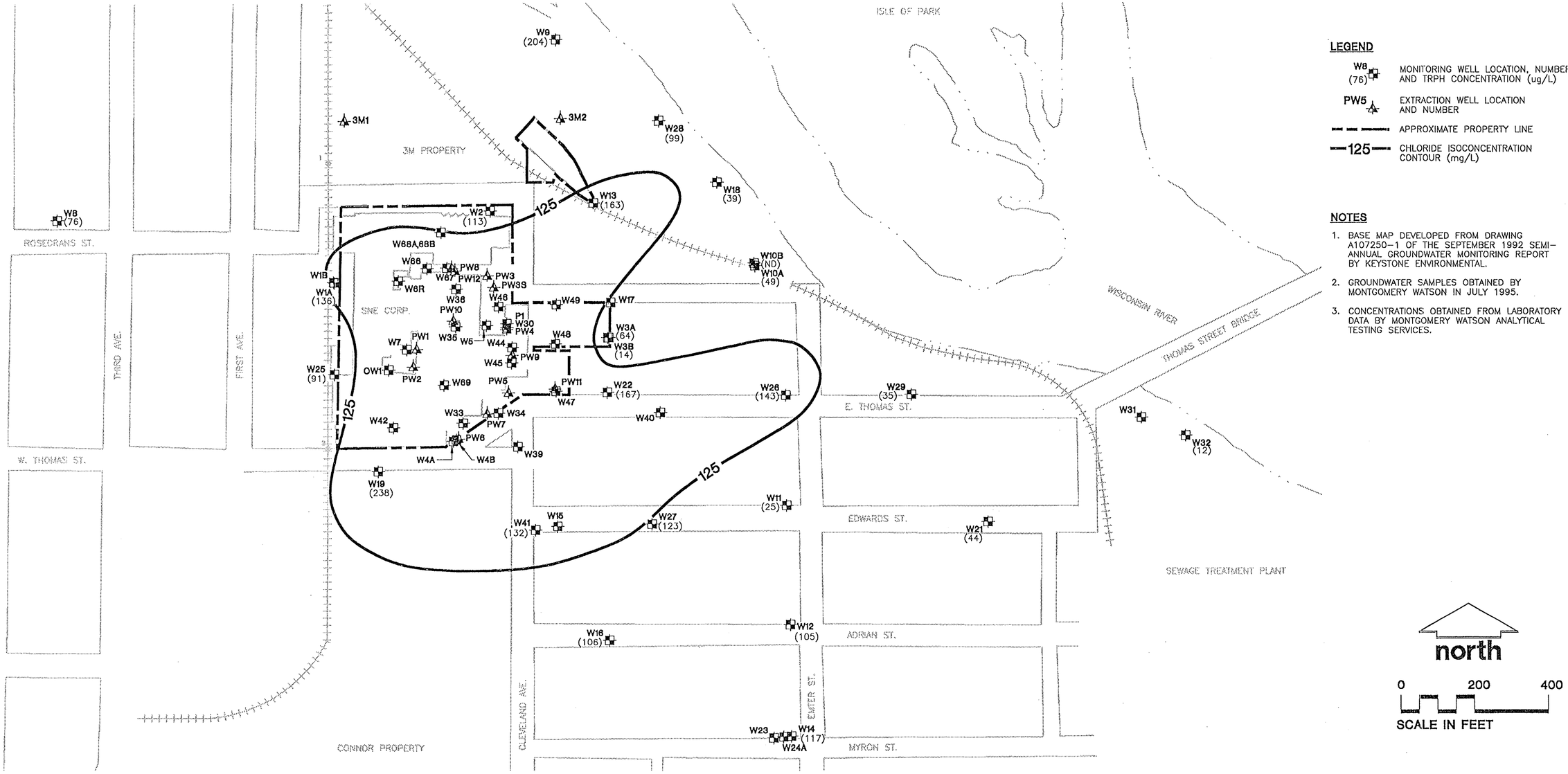
Developed By JDD
Drawn By DLF
Approved By
Date 3-5-96
Reference
Revisions

TRPH ISOCONCENTRATION MAP (JULY 1995)

1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020B12

MONTGOMERY WATSON



LEGEND

- W8 (76) — MONITORING WELL LOCATION, NUMBER AND TRPH CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 125 — CHLORIDE ISOCONCENTRATION CONTOUR (mg/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JULY 1995.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY MONTGOMERY WATSON ANALYTICAL TESTING SERVICES.

north

0 200 400

SCALE IN FEET

QUALITY CONTROL

Graphic Standards	DLF 10-17-95
Lead Professional	JDD 11-15-95
Technical Review	DJB 11-03-95
PM Review	
Management Review	KJO 11-03-95
Other	

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Developed By JDD
Drawn By DLF
Approved By
Date 3-5-96
Reference
Revisions

CHLORIDE ISOCONCENTRATION MAP (JULY 1995)
1995 ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
4113.0020B13

MONTGOMERY WATSON

3/4/96

MONTGOMERY WATSON

RECEIVED
Wis. Dept. of Natural Resources
MAR - 5 1996
N. C. Dist. Hdqtrs.
RHINELANDER, WI

March 4, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: January Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the January Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

JMR/vlr/DJB
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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JANUARY 1996

SUMMARY OF JANUARY 1996 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period.

PCP influent concentrations ranged from 10,050 ug/L to 24,050 ug/L during January 1996 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR effluent concentrations have increased somewhat, although treatment efficiency remains approximately 90 to 95%. A slight decrease in treatment efficiency was anticipated with modifications to the fluidization rate in the FBR. The fluidization rate was increased to stabilize solids production. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

Product Recovery

Product recovery data for the reporting period is presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Although average water levels continued to decrease during January, total product recovery for this month decreased. Product recovery for January was 253 gal compared to 259 gal recovered during December. The decrease in total product recovery was due to decreases at wells PW11 and PW13. Recovery rates increased at PW4 and PW10.

Groundwater pumping began at new product recovery wells PW15 and PW16 during the last week of December. The new product wells replace PW6 and PW14 which had not been contributing to product recovery. As shown in Tables 3 and 4, product has begun to move into the new wells, and product removal from these wells in January contributed approximately 8% of the total product removed by the system.

Groundwater Monitoring

Groundwater elevation and product thickness data for November, December, and January are summarized in Table 4.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system continued normal operation during the month of January. The system was turned off on January 31 due to condensate freezing in the SVE conveyance lines.

JMR/vlr/DJB
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TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)				
	18-JAN-96	< .25		< .25
Chemical Oxygen Demand (mg/L)				
	18-DEC-95	70	60	5
	26-DEC-95	120	75	10
	03-JAN-96	70	35	0
	18-JAN-96	171		< 20
	24-JAN-96	75	30	5
Chloride (mg/L)				
	18-JAN-96	118		134
Dissolved Oxygen (mg/L)				
	18-DEC-95	9.5	5.8	.7
	20-DEC-95	9.2	6.9	1.6
	22-DEC-95	9.2	6.2	1.2
	26-DEC-95	9.8	5.8	1.6
	29-DEC-95	9.6	6.4	1
	03-JAN-96	9	4.5	.7
	05-JAN-96	8.4	4	.6
	08-JAN-96	9	4	.7
	10-JAN-96	8.7	5.3	.6
	12-JAN-96	8.9	4.4	.6
	17-JAN-96	9.5	4.7	.5
	19-JAN-96	9.7	5.2	.8
	22-JAN-96	10	5.5	.8
	24-JAN-96	7.6	3.2	1.7
	26-JAN-96	7.5	3.4	1.4
	29-JAN-96	8.5	5	.9
	31-JAN-96	10	6.6	.6
Gasoline (mg/L)				
	18-JAN-96	< .25		< .25
Kerosene (mg/L)				
	18-JAN-96	< .25		< .25
Mineral Spirits (mg/L)				
	18-JAN-96	4.2		< .25

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Ammonia (mg/L)				
	18-DEC-95	3	0	
	20-DEC-95	3	0	
	22-DEC-95	3	0	
	26-DEC-95	3	0	
	29-DEC-95	2	0	
	03-JAN-96	4	1	
	05-JAN-96	4	1	
	08-JAN-96	4	1	
	10-JAN-96	3	0	
	12-JAN-96	4	1	
	17-JAN-96	4	1	
	19-JAN-96	4	1	
	22-JAN-96	4	1	
	24-JAN-96	4	1	
	26-JAN-96	4	1	
	29-JAN-96	4	1	
	31-JAN-96	3	1	
Nitrogen, Nitrate (mg/L)				
	18-DEC-95	3	3	
	20-DEC-95	3	3	
	22-DEC-95	3	3	
	26-DEC-95	3	3	
	29-DEC-95	3	3	
	03-JAN-96	3	3	
	17-JAN-96	3	3	
	31-JAN-96	3	3	
Nitrogen, Nitrate + Nitrite (mg/L)				
	18-JAN-96	.41		.33
Nitrogen, Total Kjeldahl (mg/L)				
	18-JAN-96	3.42		.58
Oil and Grease (mg/L)				
	18-JAN-96	18		2

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	18-DEC-95	9793	843	0
	19-DEC-95			0
	20-DEC-95	17384	1031	0
	21-DEC-95			1
	22-DEC-95	19354	1858	0
	23-DEC-95			0
	24-DEC-95			0
	25-DEC-95			0
	26-DEC-95	29706	1776	0
	27-DEC-95			0
	28-DEC-95			0
	29-DEC-95	27021	2179	1
	30-DEC-95			0
	31-DEC-95			0
	01-JAN-96			0
	02-JAN-96			0
	03-JAN-96	20140	1450	1
	04-JAN-96			1
	05-JAN-96	19160	1340	1
	06-JAN-96			1
	07-JAN-96			0
	08-JAN-96	18010	1260	0
	09-JAN-96			1
	10-JAN-96	15100	1240	1
	11-JAN-96			1
	12-JAN-96	24050	1670	2
	13-JAN-96			0
	14-JAN-96			0
	15-JAN-96			0
	16-JAN-96			2
	17-JAN-96	20100	1450	1
	18-JAN-96			2
	19-JAN-96	16170	1340	2
	20-JAN-96			1
	21-JAN-96			0
	22-JAN-96	10050	230	1
	23-JAN-96			0
	24-JAN-96	19160	1760	2
	25-JAN-96			1
	26-JAN-96	15170	1450	1
	27-JAN-96			1
	28-JAN-96			0
	29-JAN-96	22450	1430	1
	30-JAN-96			0
	31-JAN-96	12830	272	0
Phosphorus, Ortho (mg/L)				
	18-JAN-96	.89		.79

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Phosphorus, Phosphate (mg/L)				
	18-DEC-95	1	.6	
	20-DEC-95	3	1	
	22-DEC-95	3	.5	
	26-DEC-95	3.3	1	
	29-DEC-95	1	.6	
	03-JAN-96	2	1	
	05-JAN-96	1.5	.5	
	08-JAN-96	1.2	.9	
	10-JAN-96	1	1	
	12-JAN-96	1	.5	
	17-JAN-96	2	2	
	19-JAN-96	2	1.7	
	22-JAN-96	.8	.6	
	24-JAN-96	2	1	
	26-JAN-96	2	1	
	29-JAN-96	2.5	1.5	
	31-JAN-96	.5	.3	
Solids, Total Suspended (mg/L)				
	18-JAN-96	4		< 2
pH (S.U.)				
	18-DEC-95	6.6	6.8	6.6
	20-DEC-95	6.6	6.5	6.4
	22-DEC-95	6.7	6.9	6.6
	26-DEC-95	6.4	6.6	6.5
	29-DEC-95	6.6	6.7	6.6
	03-JAN-96	6.6	6.7	6.7
	05-JAN-96	6.6	6.7	7
	08-JAN-96	6.6	6.8	7
	10-JAN-96	5.7	6.1	6.6
	12-JAN-96	6.1	6.6	7
	17-JAN-96	6.4	6.7	7
	18-JAN-96	6.71		6.82
	19-JAN-96	6.1	6.4	6.6
	22-JAN-96	5.9	6.4	6.8
	24-JAN-96	6.6	6.5	6.1
	26-JAN-96	6.6	7	7
	29-JAN-96	6.6	7	6.5
	31-JAN-96	6.5	6.65	6.6

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
18-JAN-96	2,3,4,6-Tetrachlorophenol (ug/L)	< 100		< 10
	2,4,5-Trichlorophenol (ug/L)	< 100		< 10
	2,4,6-Trichlorophenol (ug/L)	< 100		< 10
	2,4-Dichlorophenol (ug/L)	150		< 10
	2,4-Dimethylphenol (ug/L)	< 100		< 10
	2,4-Dinitrophenol (ug/L)	< 200		< 20
	2,6-Dichlorophenol (ug/L)	< 100		< 10
	2-Methylphenol (ug/L)	< 100		< 10
	2-Nitrophenol (ug/L)	< 100		< 10
	3&4-Methylphenol (ug/L)	< 200		< 20
	4,6-Dinitro-2-methylphenol (ug/L)	1200		< 10
	4-Chloro-3-methylphenol (ug/L)	< 100		< 10
	4-Nitrophenol (ug/L)	< 200		< 20
	Dinoseb (ug/L)	< 100		< 10
	Pentachlorophenol (ug/L)	3200		< 1
	Phenol/2-Chlorophenol (ug/L)	220		< 20

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
01/01/96	23.00	23.00	9566640	0.00
01/02/96	25.00	25.00	9599760	0.00
01/03/96	25.00	25.00	9635760	0.00
01/04/96	25.00	25.00	9671760	0.00
01/05/96	26.00	26.00	9681210	0.00
01/06/96	23.41	23.41	9714920	0.00
01/07/96	26.00	26.00	9752360	0.00
01/08/96	24.05	24.05	9786990	0.00
01/09/96	25.42	25.42	9823590	0.00
01/10/96	23.65	23.65	9857640	0.00
01/11/96	23.86	23.86	9892000	0.00
01/12/96	23.86	23.86	9926360	0.00
01/13/96	23.86	23.86	9960720	0.00
01/14/96	23.86	23.86	9995080	0.00
01/15/96	23.86	23.86	10029440	0.00
01/16/96	25.00	25.00	40190	0.00
01/17/96	22.00	22.00	68700	0.00
01/18/96	22.00	22.00	71868	0.00
01/19/96	26.30	26.30	132090	0.00
01/20/96	26.30	26.30	169962	0.00
01/21/96	26.30	26.30	207834	0.00
01/22/96	22.50	22.50	196130	0.00
01/23/96	22.50	22.50	228530	0.00
01/24/96	22.50	22.50	260930	0.00
01/25/96	26.00	26.00	294330	0.00
01/26/96	17.85	17.85	320040	0.00
01/27/96	17.85	17.85	345750	0.00
01/28/96	17.85	17.85	371460	0.00
01/29/96	23.00	23.00	356190	0.00
01/30/96	18.72	18.72	383150	0.00
01/31/96	20.95	20.95	413320	0.00
AVERAGE:	23.34	23.34		0.00
TOTAL (2):			846,680	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow ratesare daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	Total
1/1/96	3.44	0	0	0	0	1.72	0	1.72	0	0	6.88
1/2/96	5.16	0	0	0	0	1.72	0	1.72	0	0	8.60
1/3/96	6.88	0	0	0	0	0	0	1.72	0	0	8.60
1/4/96	10.32	0	0	0	0	1.72	0	1.72	0	0	13.76
1/5/96	8.6	0	0	0	0	1.72	0	3.44	0	0	13.76
1/6/96	6.88	1.72	0	0	0	1.72	0	3.44	1.72	1.72	17.20
1/7/96	3.44	0	0	0	0	1.72	0	0	0	0	5.16
1/8/96	3.44	0	0	0	0	1.72	0	1.72	0	0	6.88
1/9/96	6.88	1.72	0	0	0	1.72	0	1.72	1.72	0	13.76
1/10/96	5.16	1.72	0	0	0	1.72	0	3.44	0	0	12.04
1/11/96	3.44	1.72	0	0	0	1.72	0	1.72	0	1.72	10.32
1/12/96	3.44	0	0	0	1.72	1.72	0	1.72	0	0	8.60
1/13/96	3.44	0	0	0	0	1.72	0	0	0	0	5.16
1/14/96	3.44	1.72	0	0	0	1.72	0	1.72	0	0	8.60
1/15/96	3.44	0	0	0	0	1.72	0	1.72	0	0	6.88
1/16/96	3.44	1.72	0	0	0	1.72	0	0	0	1.72	8.60
1/17/96	3.44	0	0	0	1.72	3.44	0	1.72	1.72	0	12.04
1/18/96	1.72	1.72	0	0	0	0	0	1.72	1.72	0	6.88
1/19/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
1/20/96	1.72	0	0	0	0	0	0	1.72	0	0	3.44
1/21/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
1/22/96	3.44	0	0	0	0	0	0	1.72	0	0	5.16
1/23/96	1.72	0	0	0	0	0	0	1.72	0	1.72	5.16
1/24/96	3.44	1.72	0	0	0	1.72	0	1.72	0	0	8.60
1/25/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
1/26/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
1/27/96	1.72	0	0	0	1.72	1.72	0	1.72	1.72	0	8.60
1/28/96	1.72	1.72	0	0	0	0	0	1.72	0	0	5.16
1/29/96	1.72	0	0	0	0	1.72	0	1.72	0	1.72	6.88
1/30/96	1.72	0	0	0	0	1.72	0	1.72	0	0	5.16
1/31/96	1.72	1.72	0	0	1.72	0	0	1.72	3.44	0	10.32
Total:	111.80	17.20	0.00	0.00	6.88	43.00	0.00	53.32	12.04	8.60	252.84

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

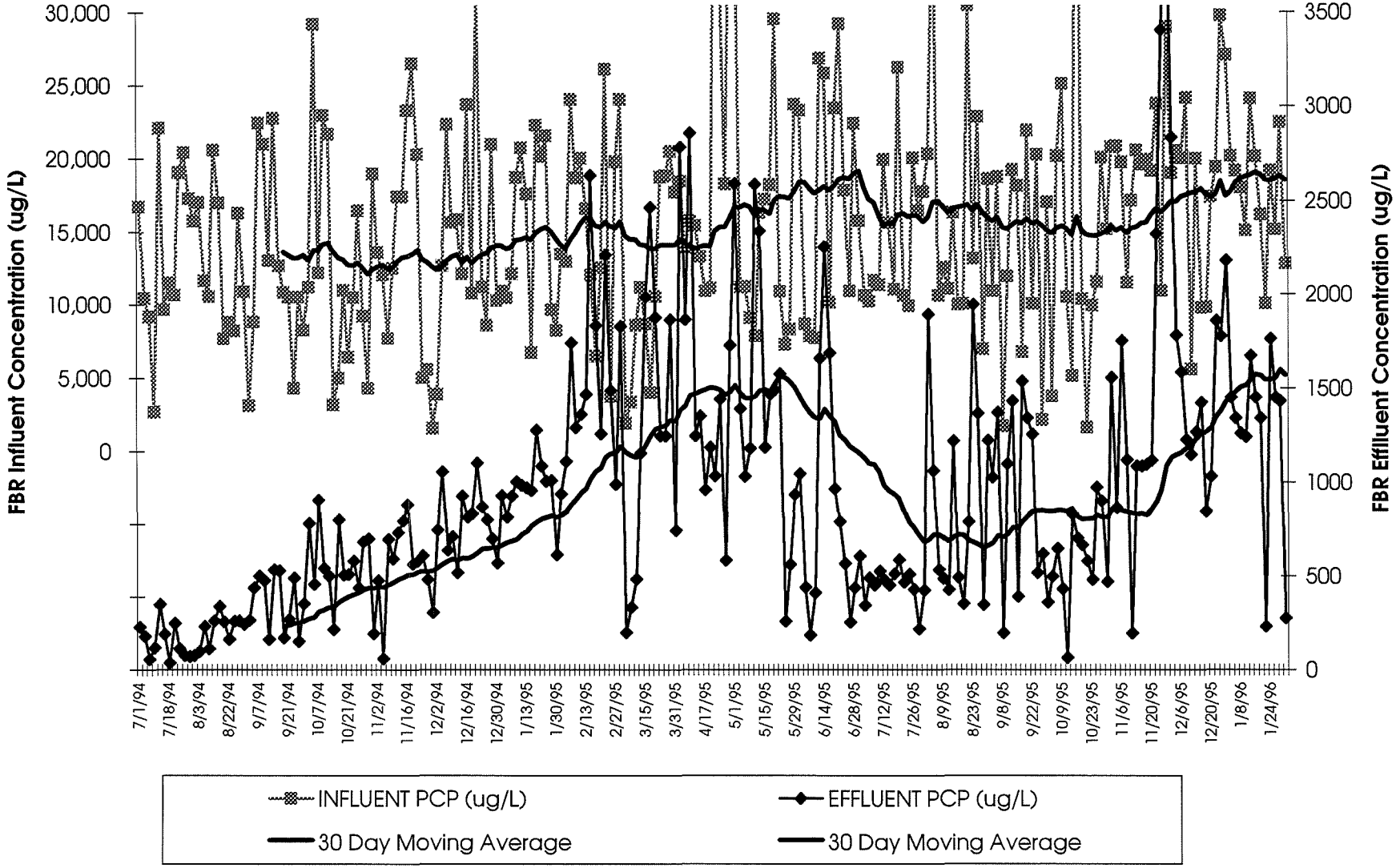
Well	November 30,1995		December 29, 1995		January 31, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1163.85	-----	1163.35	-----	Frozen
PW02	-----	1163.90	-----	1163.30	-----	Frozen
PW03	-----	1163.83	-----	1163.53	-----	1163.35
PW3S	0.60	1161.01	0.57	1160.56	0.66	1160.36
PW04	0.90	1156.60	1.60	1156.90	0.10	1157.30
PW05	0.50	1154.23	-----	1157.33	0.20	1156.73
PW06	0.46	1162.63	0.41	1162.24	-----	Frozen
PW07	0.15	1157.00	-----	1156.70	0.30	1156.40
PW08	0.10	1161.97	0.10	1161.52	0.24	1161.31
PW9I	-----	1161.22	-----	1161.08	-----	1160.58
PW9O	-----	1162.52	-----	1162.19	-----	1162.14
PW10	0.50	1158.56	1.05	1156.96	0.05	1160.21
PW11	1.20	1159.95	1.40	1159.55	0.15	1160.80
PW12	-----	1163.79	-----	1163.41	-----	1163.26
PW13	0.30	1159.90	0.30	1159.40	0.40	1159.30
PW14	-----	1146.56	-----	Frozen	-----	Frozen
PW15	-----	-----	0.43	1160.11	0.70	1155.41
PW16	-----	-----	0.70	1161.63	0.70	1161.58
P01	0.83	1161.61	0.47	1161.54	0.51	1161.42
OW01	-----	1163.18	-----	1163.08	-----	Frozen
W01A	-----	1164.36	-----	1163.88	-----	1163.72
W01B	-----	1164.35	-----	1163.90	-----	1163.72
W02	-----	1163.35	-----	1162.94	-----	1162.89
W03A	-----	1161.89	-----	1161.54	-----	1161.53
W03B	-----	1161.96	-----	1161.74	-----	1160.72
W04A	0.76	1162.38	0.61	1162.09	0.60	1162.10
W04B	0.77	1162.40	0.70	1161.93	0.42	1162.25
W05	0.65	1161.88	0.25	1161.78	0.31	1161.57
W06R	-----	1165.15	-----	1163.71	0.05	1163.48
W07	-----	1163.92	-----	1163.62	-----	Frozen
W08	-----	1174.05	-----	1172.98	-----	1172.83
W09	-----	1162.63	-----	1162.38	-----	1162.52
W10A	-----	1161.18	-----	1161.17	-----	1161.29
W10B	-----	1161.23	-----	1161.15	-----	1161.28
W11	-----	1160.98	-----	1160.90	-----	1160.82
W12	-----	1160.63	-----	1160.51	-----	1160.61
W13	-----	1161.60	-----	1161.54	-----	1161.62
W14	-----	1159.74	-----	1159.50	-----	1159.59
W16	-----	1162.15	-----	1161.76	-----	1162.11
W17	0.31	1161.61	0.36	1161.34	0.30	1161.32
W18	-----	1161.17	-----	1161.25	-----	1161.39
W19	-----	1163.63	-----	1163.28	-----	1163.22

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

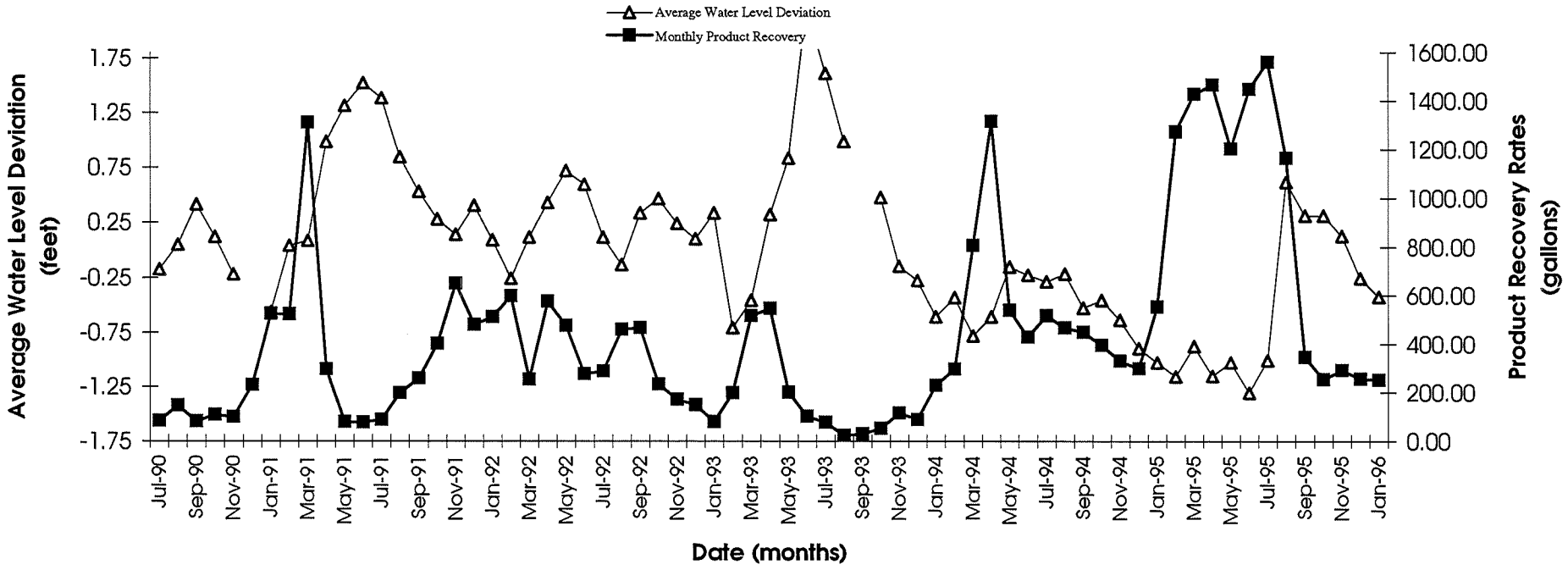
Well	November 30,1995		December 29, 1995		January 31, 1996	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1160.82	-----	1160.59	-----	1160.52
W22	-----	1162.01	-----	1161.61	-----	1161.51
W23	-----	1160.90	-----	1160.80	-----	1160.93
W24A	-----	1160.85	-----	1160.64	-----	1160.76
W25	-----	1164.49	-----	1163.94	-----	1163.77
W26	-----	1161.02	-----	1161.00	-----	1161.12
W27	-----	1161.72	-----	1161.44	-----	1161.49
W28	-----	1161.08	-----	1161.30	-----	1161.44
W29	-----	1160.92	-----	1160.96	-----	1161.06
W30	-----	1161.71	1.10	1160.84	1.14	1160.70
W31	-----	1160.88	-----	1160.97	-----	1161.10
W32	-----	1160.87	-----	1160.98	-----	1161.09
W33	-----	1162.94	-----	1162.55	-----	Frozen
W34	-----	1159.35	0.20	1158.80	0.15	1158.79
W35	0.70	1161.94	0.65	1161.84	1.07	1161.13
W36	0.02	1162.72	-----	1162.21	-----	1162.23
W39	-----	1162.87	-----	1162.42	-----	1162.37
W40	0.40	1161.59	0.44	1161.24	-----	Frozen
W41	-----	1162.99	-----	1162.66	-----	Frozen
W42	0.77	1162.92	0.61	1162.57	0.63	1162.51
W44	0.51	1162.11	0.28	1161.91	0.05	1162.07
W45	-----	1162.55	0.05	1162.13	0.12	1162.01
W46	0.83	1161.57	0.87	1161.25	0.88	1160.24
W47	1.07	1157.47	0.40	1157.59	0.91	1157.60
W48	0.85	1158.11	0.60	1157.88	0.51	1157.90
W49	0.06	1158.86	0.75	1157.86	0.74	1157.80
W66	-----	1164.01	-----	1163.56	-----	1162.42
W67	-----	1162.95	-----	1163.50	-----	1163.39
W68A	-----	1162.97	-----	1163.55	-----	1163.39
W68B	-----	1162.89	-----	1163.49	-----	1163.29
W69	0.80	1162.40	0.67	1162.13	0.68	1161.95
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	Frozen	-----	Frozen	-----	Frozen

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



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FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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2/21/96

MONTGOMERY WATSON

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Wis. Dept. of Natural Resources
FEB 2 1996
N. C. Dist. Hdqtrs.
Rhinelander, WI

February 1, 1996

Ms. Laurel Sukup
Wisconsin Department of Natural Resources
North Central District Headquarters
P.O. Box 818
Rhinelander, Wisconsin 54501

Re: December Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Sukup:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the December Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

If you have any questions or comments regarding this information, please call.

Sincerely,

MONTGOMERY WATSON

John D. Dadisman
Environmental Chemist

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: Section Chief - WDNR (Madison, WI) (w/2 encl)
Wastewater Engineer - WDNR (Wausau, WI) (w/1 encl)
J. Gehin - Wausau Utilities Director (w/1 encl)
C. Fribance (w/1 encl)
R. Kammer (w/1 encl)
P. Peshek (w/1 encl)

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4113.0010-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
DECEMBER 1995

SUMMARY OF DECEMBER 1995 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening results for the system effluent samples, which represent the discharge water to the municipal sewer, indicate PCP concentrations were below the permit level of 10 ug/L during the reporting period.

PCP influent concentrations ranged from 5,556 ug/L to 29,706 ug/L during December 1995 (Table 1). PCP influent and effluent concentrations in the Fluidized Bed Reactor (FBR) are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, FBR effluent concentrations have increased somewhat, although treatment efficiency remains approximately 90 to 95%. A slight decrease in treatment efficiency was anticipated with modifications to the fluidization rate in the FBR. The fluidization rate was increased to stabilize solids production. Daily groundwater flow through the treatment system and discharge to the City of Wausau POTW is shown in Table 2 for the reporting period.

Product Recovery

Product recovery data for the reporting period is presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Average water levels continued to decrease during December, although total product recovery for this month decreased. Product recovery for December was 257 gal compared to 292 gal recovered during November. The decrease in total product recovery was due to decreases at wells PW11 and PW13. Recovery rates increased at PW4 and PW5.

Groundwater pumping began at new product recovery wells PW15 and PW16 during the last week of December. The new product wells replace PW6 and PW14 which had not been contributing to product recovery. As shown in Table 4, product has begun to move into the new wells, and product removal is expected to begin in January.

Groundwater Monitoring

Groundwater elevation and product thickness data for October, November, and December are summarized in Table 4. The 4th round of quarterly groundwater monitoring for 1995 took place during the week beginning December 18th, 1995.

Phase II Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Study

The Phase II AS/SVE pilot study system continued normal operation during the month of December.

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TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
#2 Fuel Oil (mg/L)				
	12-DEC-95	< .25	< .25	< .25
Chemical Oxygen Demand (mg/L)				
	13-NOV-95	100	40	0
	14-NOV-95			0
	15-NOV-95			0
	16-NOV-95			0
	17-NOV-95	0	0	0
	18-NOV-95			0
	19-NOV-95			0
	20-NOV-95	50	30	0
	21-NOV-95			0
	22-NOV-95			0
	23-NOV-95			0
	24-NOV-95			0
	25-NOV-95			0
	26-NOV-95			0
	27-NOV-95	70	45	0
	28-NOV-95			0
	29-NOV-95			0
	30-NOV-95			0
	04-DEC-95	65	30	5
	12-DEC-95	67	71	37
	13-DEC-95	60	25	0
	18-DEC-95	70	60	5
	26-DEC-95	120	75	10
Chloride (mg/L)				
	13-NOV-95	138	141	
	20-NOV-95	139	140	
	27-NOV-95	130	146	
	04-DEC-95	135	145	
	12-DEC-95	153	165	138

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Dissolved Oxygen (mg/L)				
	13-NOV-95	8.2	3.8	2
	15-NOV-95	9	3.2	2
	17-NOV-95	8.4	4.8	1.8
	20-NOV-95	8.6	4.4	2.4
	22-NOV-95	8.8	5.4	1.6
	27-NOV-95	8.6	5.6	1.6
	29-NOV-95	9.2	5	.8
	01-DEC-95	9.8	6	2
	04-DEC-95	9.8	6	1.8
	06-DEC-95	9	5.8	2
	08-DEC-95	10	7	.6
	11-DEC-95	9.7	6.8	.6
	13-DEC-95	10.5	6.5	1.3
	15-DEC-95	10	6.2	1.4
	18-DEC-95	9.5	5.8	.7
	20-DEC-95	9.2	6.9	1.6
	22-DEC-95	9.2	6.2	1.2
	26-DEC-95	9.8	5.8	1.6
	29-DEC-95	9.6	6.4	1
Gasoline (mg/L)				
	12-DEC-95	< .25	< .25	< .25
Kerosene (mg/L)				
	12-DEC-95	< .25	< .25	< .25
Mineral Spirits (mg/L)				
	12-DEC-95	1	< .25	< .25
Nitrogen, Ammonia (mg/L)				
	13-NOV-95	3	1	
	15-NOV-95	1	0	
	17-NOV-95	2	0	
	20-NOV-95	1	1	
	22-NOV-95	4	3	
	27-NOV-95	8	7	
	29-NOV-95	8	7	
	01-DEC-95	3	1	
	04-DEC-95	4	1	
	06-DEC-95	4	1	
	08-DEC-95	2	0	
	11-DEC-95	3	0	
	13-DEC-95	3	0	
	15-DEC-95	3	0	
	18-DEC-95	3	0	
	20-DEC-95	3	0	
	22-DEC-95	3	0	
	26-DEC-95	3	0	
	29-DEC-95	2	0	

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Nitrogen, Nitrate (mg/L)				
	13-NOV-95	3	3	
	15-NOV-95	3	2	
	17-NOV-95	3	3	
	20-NOV-95	3	3	
	22-NOV-95	3	3	
	27-NOV-95	3	3	
	29-NOV-95	3	3	
	01-DEC-95	3	3	
	04-DEC-95	3	3	
	06-DEC-95	3	3	
	08-DEC-95	3	3	
	11-DEC-95	3	3	
	13-DEC-95	3	3	
	15-DEC-95	3	3	
	18-DEC-95	3	3	
	20-DEC-95	3	3	
	22-DEC-95	3	3	
	26-DEC-95	3	3	
	29-DEC-95	3	3	
Nitrogen, Nitrate + Nitrite (mg/L)				
	12-DEC-95	.61	1.35	.22
Nitrogen, Total Kjeldahl (mg/L)				
	12-DEC-95	2.59	2.32	.19
Oil and Grease (mg/L)				
	12-DEC-95	17	< 1	< 1

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Pentachlorophenol-Screen (ug/L)				
	13-NOV-95	20541	1085	0
	14-NOV-95			1
	15-NOV-95	19598	1085	0
	16-NOV-95			0
	17-NOV-95	19913	1095	0
	18-NOV-95			0
	19-NOV-95			0
	20-NOV-95	19152	1115	0
	21-NOV-95			0
	22-NOV-95	23742	2323	1
	23-NOV-95			0
	24-NOV-95			0
	25-NOV-95			0
	26-NOV-95			0
	27-NOV-95	10950	3403	1
	28-NOV-95			1
	29-NOV-95	28981	4221	1
	30-NOV-95			0
	01-DEC-95	19019	2834	0
	02-DEC-95			0
	03-DEC-95			0
	04-DEC-95	20514	1780	0
	05-DEC-95			0
	06-DEC-95	20000	1584	0
	07-DEC-95			0
	08-DEC-95	24130	1227	0
	09-DEC-95			0
	10-DEC-95			0
	11-DEC-95	5556	1146	0
	12-DEC-95			0
	13-DEC-95	19962	1269	1
	14-DEC-95			0
	15-DEC-95	9758	1423	0
	16-DEC-95			0
	17-DEC-95			0
	18-DEC-95	9793	843	0
	19-DEC-95			0
	20-DEC-95	17384	1031	0
	21-DEC-95			1
	22-DEC-95	19354	1858	0
	23-DEC-95			0
	24-DEC-95			0
	25-DEC-95			0
	26-DEC-95	29706	1776	0
	27-DEC-95			0
	28-DEC-95			0
	29-DEC-95	27021	2179	1
	30-DEC-95			0
	31-DEC-95			0

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

PARAMETER (UNIT)	SAMPLED	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
Phosphorus, Ortho (mg/L)				
	12-DEC-95	.69	.54	1.04
Phosphorus, Phosphate (mg/L)				
	13-NOV-95	3.3	1	0
	15-NOV-95	1.3	.3	
	17-NOV-95	1.6	.3	
	20-NOV-95	3.3	1	5
	22-NOV-95	3	1	
	27-NOV-95	2.6	1.6	0
	29-NOV-95	3	.6	
	01-DEC-95	3	2	
	04-DEC-95	3.3	2.6	
	06-DEC-95	3.3	2.5	
	08-DEC-95	3.5	1.5	
	11-DEC-95	3.5	2	
	13-DEC-95	2.5	2	
	15-DEC-95	3.3	1.6	
	18-DEC-95	1	.6	
	20-DEC-95	3	1	
	22-DEC-95	3	.5	
	26-DEC-95	3.3	1	
	29-DEC-95	1	.6	
Solids, Total Suspended (mg/L)				
	12-DEC-95	26	18	< 2
pH (S.U.)				
	13-NOV-95	6.3	6.5	6.6
	15-NOV-95	6.7	6.8	7
	17-NOV-95	6.8	7	7.2
	20-NOV-95	7	7.2	7
	22-NOV-95	6.8	7	7.2
	27-NOV-95	7.2	7	7.3
	29-NOV-95	6.7	7.2	6.9
	01-DEC-95	6.4	6.7	6.6
	04-DEC-95	6.4	7	6.6
	06-DEC-95	6.5	6.4	6.6
	08-DEC-95	6.8	6.8	6.75
	11-DEC-95	6.8	6.8	6.75
	12-DEC-95	6.75	6.87	7.84
	13-DEC-95	6.7	7	6.9
	15-DEC-95	6.7	7	6.8
	18-DEC-95	6.6	6.8	6.6
	20-DEC-95	6.6	6.5	6.4
	22-DEC-95	6.7	6.9	6.6
	26-DEC-95	6.4	6.6	6.5
	29-DEC-95	6.6	6.7	6.6

FBR - Fluidized Bed Reactor

TABLE 1

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

SAMPLED	PARAMETER (UNIT)	FBR INFLUENT	FBR EFFLUENT	SYSTEM EFFLUENT
12-DEC-95	2,3,4,6-Tetrachlorophenol (ug/L)	< 500	< 10	< 10
	2,4,5-Trichlorophenol (ug/L)	< 500	< 10	< 10
	2,4,6-Trichlorophenol (ug/L)	< 500	< 10	< 10
	2,4-Dichlorophenol (ug/L)	< 500	< 10	< 10
	2,4-Dimethylphenol (ug/L)	< 500	< 10	< 10
	2,4-Dinitrophenol (ug/L)	< 1000	< 20	< 20
	2,6-Dichlorophenol (ug/L)	< 500	< 10	< 10
	2-Chlorophenol (ug/L)	< 500	< 10	< 10
	2-Methylphenol (ug/L)	< 500	< 10	< 10
	2-Nitrophenol (ug/L)	< 500	< 10	< 10
	3&4-Methylphenol (ug/L)	< 1000	< 20	< 20
	4,6-Dinitro-2-methylphenol (ug/L)	1400	33	< 10
	4-Chloro-3-methylphenol (ug/L)	< 500	< 10	< 10
	4-Nitrophenol (ug/L)	< 1000	< 20	< 20
	Dinoseb (ug/L)	< 500	< 10	< 10
	Pentachlorophenol (ug/L)	8600	160	< 1
	Phenol (ug/L)	< 500	< 10	< 10

FBR - Fluidized Bed Reactor

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent (1) Groundwater Flow Rate (gpm)	POTW (1) Discharge Flow Rate (gpm)	POTW Totalized Discharge (gallons)	Seepage Bed (1) Discharge Flow Rate (gpm)
12/01/95	22.10	22.10	8508670	0.00
12/02/95	22.10	22.10	8540494	0.00
12/03/95	22.10	22.10	8572318	0.00
12/04/95	27.80	27.80	6614580	0.00
12/05/95	21.13	21.13	6645000	0.00
12/06/95	20.50	20.50	8670140	0.00
12/07/95	25.42	25.42	8706750	0.00
12/08/95	24.84	24.84	8742520	0.00
12/09/95	25.60	25.60	8779390	0.00
12/10/95	25.60	25.60	8816260	0.00
12/11/95	25.60	25.60	8853130	0.00
12/12/95	18.81	18.81	8880220	0.00
12/13/95	24.22	24.22	8915100	0.00
12/14/95	26.01	26.01	8952560	0.00
12/15/95	25.81	25.81	8989730	0.00
12/16/95	25.81	25.81	9026900	0.00
12/17/95	25.81	25.81	9064070	0.00
12/18/95	23.28	23.28	9097600	0.00
12/19/95	23.28	23.28	9131130	0.00
12/20/95	27.32	27.32	9170470	0.00
12/21/95	24.38	24.38	9205580	0.00
12/22/95	25.15	25.15	9241800	0.00
12/23/95	27.08	27.08	9280800	0.00
12/24/95	27.08	27.08	9319800	0.00
12/25/95	27.08	27.08	9358800	0.00
12/26/95	15.03	15.03	9380450	0.00
12/27/95	24.08	24.08	9415130	0.00
12/28/95	24.22	24.22	9450000	0.00
12/29/95	27.00	27.00	9488880	0.00
12/30/95	27.00	27.00	9527760	0.00
12/31/95	27.00	27.00	9566640	0.00
AVERAGE:	24.46	24.46		0.00
TOTAL (2):			2952060	

Footnotes:

(1) Influent, POTW, and Seepage Bed flow rates are daily averages.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW06	PW07	PW09	PW10	PW11	PW12	PW13	PW14	Total
12/1/95	1.72	0	0	0	0	0	3.44	0	1.72	0	6.88
12/2/95	3.44	0	0	0	0	0	1.72	0	1.72	0	6.88
12/3/95	1.72	0	0	0	0	0	1.72	0	1.72	0	5.16
12/4/95	1.72	0	0	0	0	0	3.44	0	3.44	0	8.60
12/5/95	6.88	0	0	0	0	0	1.72	0	1.72	0	10.32
12/6/95	3.44	1.72	0	0	0	0	1.72	0	3.44	0	10.32
12/7/95	5.16	0	0	0	0	0	1.72	0	3.44	0	10.32
12/8/95	1.72	0	0	0	0	0	1.72	0	1.72	0	5.16
12/9/95	1.72	1.72	0	0	0	0	3.44	0	1.72	0	8.60
12/10/95	1.72	0	0	0	0	0	1.72	0	3.44	0	6.88
12/11/95	1.72	1.72	0	0	0	0	1.72	0	3.44	0	8.60
12/12/95	1.72	0	0	0	0	0	1.72	0	3.44	0	6.88
12/13/95	1.72	0	0	0	0	0	1.72	0	1.72	0	5.16
12/14/95	1.72	0	0	0	0	0	3.44	0	1.72	0	6.88
12/15/95	1.72	1.72	0	0	0	0	1.72	0	1.72	0	6.88
12/16/95	1.72	0	0	0	0	0	1.72	0	0.00	0	3.44
12/17/95	1.72	0	0	0	0	0	3.44	0	1.72	0	6.88
12/18/95	3.44	0	0	0	0	0	3.44	0	1.72	0	8.60
12/19/95	5.16	1.72	0	0	0	0	3.44	0	0.00	0	10.32
12/20/95	3.44	0	0	0	0	0	3.44	0	1.72	0	8.60
12/21/95	10.32	0	0	0	0	0	1.72	0	1.72	0	13.76
12/22/95	3.44	0	0	0	0	0	3.44	0	1.72	0	8.60
12/23/95	3.44	0	0	0	0	0	1.72	0	1.72	0	6.88
12/24/95	3.44	0	0	0	0	0	1.72	0	1.72	0	6.88
12/25/95	3.44	0	0	0	0	0	0	0	1.72	0	5.16
12/26/95	3.44	0	0	0	0	0	1.72	0	1.72	0	6.88
12/27/95	3.44	0	0	0	0	0	3.44	0	3.44	0	10.32
12/28/95	1.72	1.72	0	0	0	0	1.72	0	1.72	0	6.88
12/29/95	1.72	1.72	0	0	0	0	1.72	0	1.72	0	6.88
12/30/95	5.16	1.72	0	0	0	0	1.72	0	1.72	0	10.32
12/31/95	8.6	5.16	0	0	0	0	6.88	0	1.72	0	22.36
Total:	101.48	18.92	0.00	0.00	0.00	0.00	73.96	0.00	61.92	0.00	256.28

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

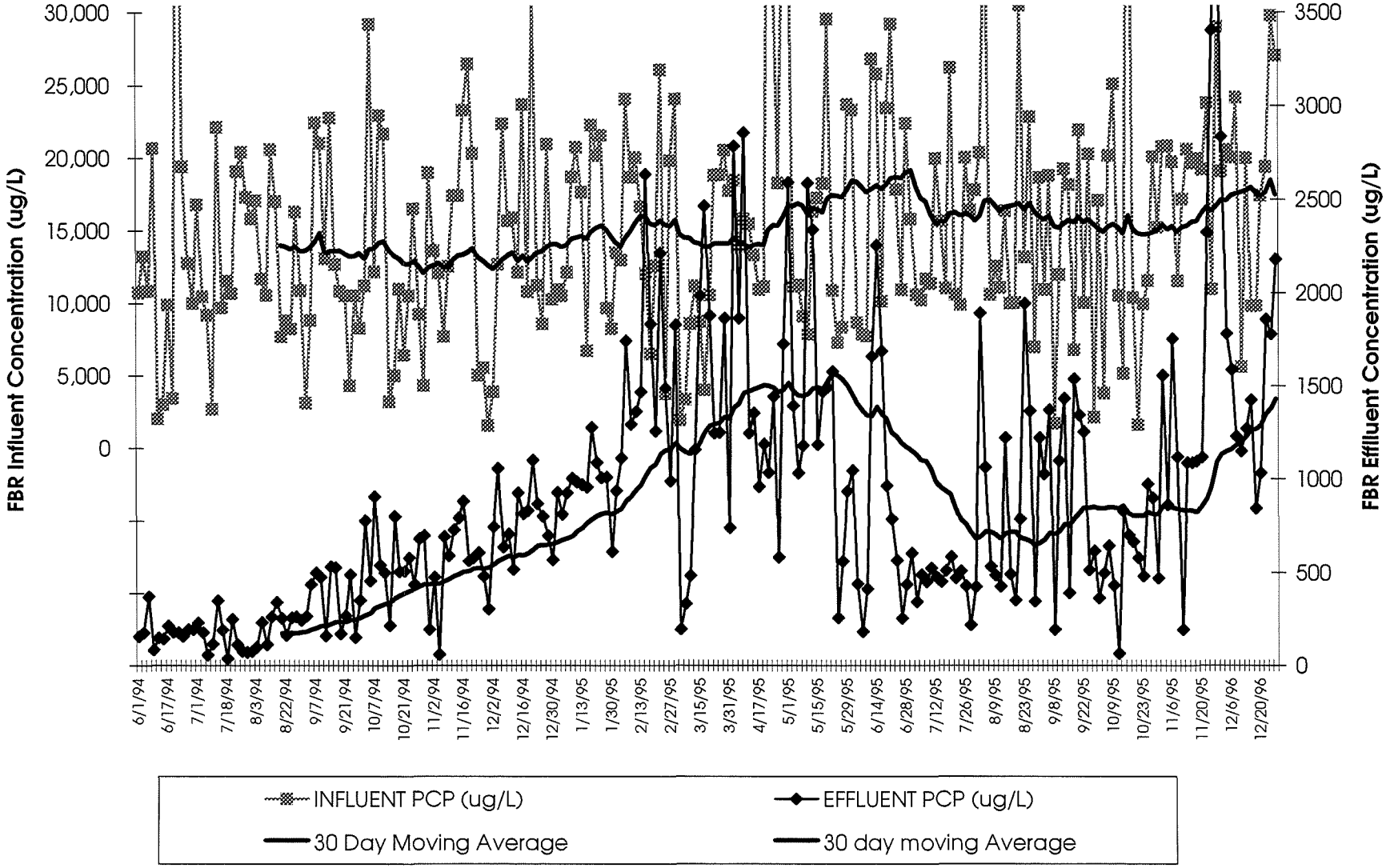
Well	October 31,1995		November 30,1995		December 29, 1995	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
PW01	-----	1164.05	-----	1163.85	-----	1163.35
PW02	-----	1164.00	-----	1163.90	-----	1163.30
PW03	-----	1163.98	-----	1163.83	-----	1163.53
PW3S	0.50	1161.21	0.60	1161.01	0.57	1160.56
PW04	0.05	1159.50	0.90	1156.60	1.60	1156.90
PW05	-----	1157.53	0.50	1154.23	-----	1157.33
PW06	0.40	1162.04	0.46	1162.63	0.41	1162.24
PW07	0.30	1157.70	0.15	1157.00	-----	1156.70
PW08	0.15	1162.02	0.10	1161.97	0.10	1161.52
PW9I	-----	1161.50	-----	1161.22	-----	1161.08
PW9O	-----	1163.39	-----	1162.52	-----	1162.19
PW10	0.70	1157.16	0.50	1158.56	1.05	1156.96
PW11	0.46	1161.27	1.20	1159.95	1.40	1159.55
PW12	-----	1164.01	-----	1163.79	-----	1163.41
PW13	0.80	1160.00	0.30	1159.90	0.30	1159.40
PW14	-----	1142.26	-----	1146.56	-----	Frozen
PW15	-----	-----	-----	-----	0.43	New Well
PW16	-----	-----	-----	-----	0.70	New Well
P01	0.60	1162.11	0.83	1161.61	0.47	1161.54
OW01	-----	1163.38	-----	1163.18	-----	1163.08
W01A	-----	1164.47	-----	1164.36	-----	1163.88
W01B	-----	1164.49	-----	1164.35	-----	1163.90
W02	-----	1163.53	-----	1163.35	-----	1162.94
W03A	-----	1162.16	-----	1161.89	-----	1161.54
W03B	-----	1162.14	-----	1161.96	-----	1161.74
W04A	0.80	1162.61	0.76	1162.38	0.61	1162.09
W04B	0.85	1162.58	0.77	1162.40	0.70	1161.93
W05	0.65	1162.13	0.65	1161.88	0.25	1161.78
W06R	-----	1164.30	-----	1165.15	-----	1163.71
W07	-----	1164.07	-----	1163.92	-----	1163.62
W08	-----	1174.55	-----	1174.05	-----	1172.98
W09	-----	1162.85	-----	1162.63	-----	1162.38
W10A	-----	1161.36	-----	1161.18	-----	1161.17
W10B	-----	1161.36	-----	1161.23	-----	1161.15
W11	-----	1161.16	-----	1160.98	-----	1160.90
W12	-----	1160.76	-----	1160.63	-----	1160.51
W13	-----	1161.88	-----	1161.60	-----	1161.54
W14	-----	1159.64	-----	1159.74	-----	1159.50
W16	-----	1162.29	-----	1162.15	-----	1161.76
W17	0.10	1162.12	0.31	1161.61	0.36	1161.34
W18	-----	1161.42	-----	1161.17	-----	1161.25
W19	-----	1163.85	-----	1163.63	-----	1163.28

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

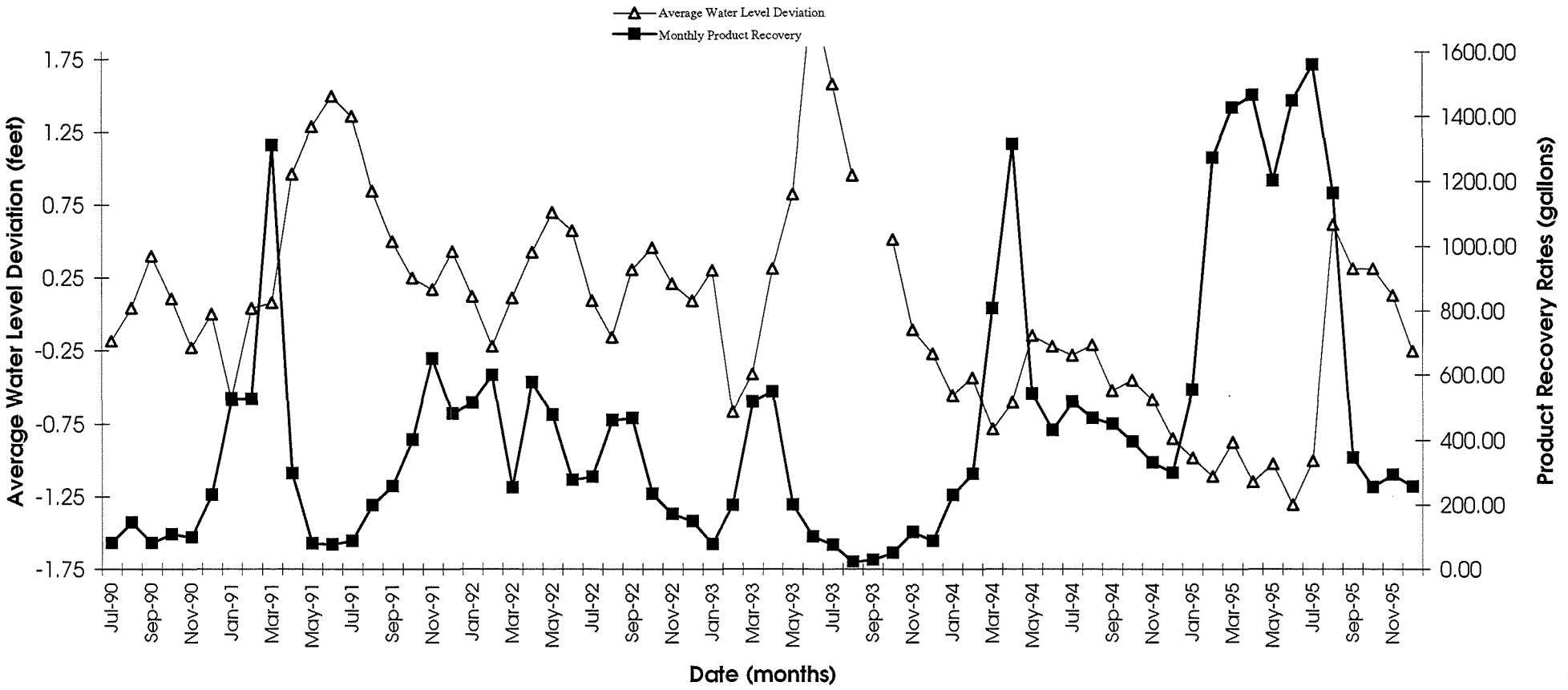
Well	October 31,1995		November 30,1995		December 29, 1995	
	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation	Oil Thickness	Water Elevation
W21	-----	1161.02	-----	1160.82	-----	1160.59
W22	-----	1162.23	-----	1162.01	-----	1161.61
W23	-----	1160.85	-----	1160.90	-----	1160.80
W24A	-----	1160.80	-----	1160.85	-----	1160.64
W25	-----	1164.87	-----	1164.49	-----	1163.94
W26	-----	1161.32	-----	1161.02	-----	1161.00
W27	-----	1161.94	-----	1161.72	-----	1161.44
W28	-----	1161.38	-----	1161.08	-----	1161.30
W29	-----	1161.07	-----	1160.92	-----	1160.96
W30	1.00	1161.64	-----	1161.71	1.10	1160.84
W31	-----	1161.08	-----	1160.88	-----	1160.97
W32	-----	1161.08	-----	1160.87	-----	1160.98
W33	-----	1163.04	-----	1162.94	-----	1162.55
W34	-----	1159.63	-----	1159.35	0.20	1158.80
W35	1.70	1161.14	0.70	1161.94	0.65	1161.84
W36	0.03	1162.84	0.02	1162.72	-----	1162.21
W39	-----	1163.00	-----	1162.87	-----	1162.42
W40	0.40	1161.69	0.40	1161.59	0.44	1161.24
W41	-----	1163.09	-----	1162.99	-----	1162.66
W42	0.60	1163.32	0.77	1162.92	0.61	1162.57
W44	0.80	1162.13	0.51	1162.11	0.28	1161.91
W45	-----	1163.15	-----	1162.55	0.05	1162.13
W46	0.85	1161.87	0.83	1161.57	0.87	1161.25
W47	0.98	1157.96	1.07	1157.47	0.40	1157.59
W48	0.80	1158.48	0.85	1158.11	0.60	1157.88
W49	0.02	1159.16	0.06	1158.86	0.75	1157.86
W66	-----	1164.16	-----	1164.01	-----	1163.56
W67	-----	1164.10	-----	1162.95	-----	1163.50
W68A	-----	1164.10	-----	1162.97	-----	1163.55
W68B	-----	1163.94	-----	1162.89	-----	1163.49
W69	0.80	1162.50	0.80	1162.40	0.67	1162.13
W70B	-----	1158.27	-----	1158.27	-----	1158.27
River	-----	1161.18	-----	Frozen	-----	Frozen

FIGURE 1
FBR INFLUENT/EFFLUENT
PCP CONCENTRATIONS



j/wauleco/ONM95/MNTLY.XLS/FIG1FBRio

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



j:/wauleco/ONM94/MNTLY.XLS
1/9/96