



MWH
MONTGOMERY WATSON HARZA

December 13, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

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WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson Harza (MWH) is submitting two copies (enclosed) of the November Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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,

MWH

Lisa A. Sanders
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, Wisconsin) (1 copy)
J. Gehin - Wausau Utilities Director (1 copy)
P. Peshek (3 copies)
R. Brandt (1 copy)
T. Dushek - MWH Wauleco (1 copy)

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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
NOVEMBER 2001**

SUMMARY OF NOVEMBER 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 1 ug/L for the month of November, with a maximum concentration of 1 ug/L.

Laboratory results from the November sampling event are also included in Table 1. The laboratory result for pentachlorophenol (PCP) in the system effluent for November was <3 ug/L on November 15, 2001. The on-site results for the same period ranged from undetected to 1 ug/L. 2,4,5-Trichlorophenol was also detected in the laboratory system effluent samples. Other phenolic compounds are typical breakdown products of PCP and their presence in the effluent is not unexpected. The total phenol concentration in the effluent was 4.2 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP (and total phenol) concentrations were below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 4,671 ug/L to 11,517 ug/L during November (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent decreased during the month. The average PCP removal efficiency for the FBR during November was 90% compared to an average of 85% during the previous year.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on November 10, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was below detection limits.

Daily groundwater flow through the treatment system (Table 2) averaged 53 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased during November. Product recovery for November was 151 gallons, up from 49 gallons in October. By comparison, total product recovery was 375 gallons in November 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for September, October and November are summarized in Table 4.

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TABLES

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	11/15/01	7	5				2	
Chemical Oxygen Demand	mg/L	11/15/01	<	<				<	
Chloride	mg/L	11/15/01	260	260				240	
Dissolved Oxygen	mg/L	11/01/01	8.6	4.4	4.2				
	mg/L	11/07/01	8.8	3.4	4.1				
	mg/L	11/15/01	8.6	5.2	5.4				
	mg/L	11/21/01	7.1	2.5	3.2				
	mg/L	11/30/01	7.5	3.4	5				
Nitrogen, Ammonia	mg/L	11/01/01	2	0.6	0.5				
	mg/L	11/07/01	2.2	0.6	0.8				
	mg/L	11/15/01	2.5	0.6	0.6				
	mg/L	11/21/01	2	0.4	0.4				
	mg/L	11/30/01	2	0.3	0.6				
Nitrogen, Nitrate	mg/L	11/01/01	<	<	<				
	mg/L	11/07/01	0.6	1	0.9				
	mg/L	11/15/01	0.8	1	0.8				
	mg/L	11/21/01	0.1	0.3	0.1				
	mg/L	11/30/01	<	0.8	0.9				
Nitrogen, Nitrate + Nitrite	mg/L	11/15/01	0.85	1.3				0.3	
Nitrogen, Total Kjeldahl	mg/L	11/15/01	1.9	2				0.63	
Pentachlorophenol-Screen	µg/L	11/01/01	6589	827	821			1	
	µg/L	11/02/01						1	
	µg/L	11/03/01						<	
	µg/L	11/04/01						<	
	µg/L	11/05/01						<	
	µg/L	11/06/01						<	
	µg/L	11/07/01	7931	709	521			1	
	µg/L	11/08/01						1	
	µg/L	11/09/01						<	
	µg/L	11/10/01						<	
	µg/L	11/11/01						<	
	µg/L	11/12/01						<	
	µg/L	11/13/01						<	
	µg/L	11/14/01						<	
	µg/L	11/15/01	4671	396	254			<	
	µg/L	11/16/01						1	
	µg/L	11/17/01						1	
	µg/L	11/18/01						1	
	µg/L	11/19/01						1	
	µg/L	11/20/01						1	
	µg/L	11/21/01	10293	952	1118			1	
	µg/L	11/22/01						<	
	µg/L	11/23/01						<	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters 1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	11/24/01						1	
	µg/L	11/25/01						1	
	µg/L	11/26/01						1	
	µg/L	11/27/01						<	
	µg/L	11/28/01						1	
	µg/L	11/29/01						1	
	µg/L	11/30/01	11517	1335	1519			1	
pH	S.U.	11/01/01	6.2	6.3	6.35				
	S.U.	11/07/01	6.15	6.2	6.3				
	S.U.	11/15/01	6.3	6.4	6.5				
	S.U.	11/21/01	6.15	6.2	6.35				
	S.U.	11/30/01	6.25	6.25	6.45				
Phosphorus, Ortho	mg/L	11/15/01	0.16	0.11				0.23	
Phosphorus, Phosphate	mg/L	11/01/01	1.5	0.6	0.6				
	mg/L	11/07/01	1	0.6	0.6				
	mg/L	11/15/01	1.4	0.8	0.8				
	mg/L	11/21/01	1.5	0.6	0.8				
	mg/L	11/30/01	1.2	0.6	0.8				
Solids, Total Suspended	mg/L	11/15/01	13	10		5	<	<	
Mercury	µg/L	11/15/01	0.19	0.17				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	11/15/01	<	70	40	42	<	<	<
2,4,5-Trichlorophenol	µg/L	11/15/01	<	<	<	<	<	4.2	3.4
2,4,6-Trichlorophenol	µg/L	11/15/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	11/15/01	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	11/15/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	11/15/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	11/15/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	11/15/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	11/15/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	11/15/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	11/15/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	11/15/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	11/15/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	11/15/01	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	11/15/01	7500	990	490	440	5	<	<
Phenol	µg/L	11/15/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
11/01/01	56.68	41.79	58,599,375
11/02/01	56.48	43.33	58,661,771
11/03/01	53.66	41.03	58,720,848
11/04/01	53.41	40.78	58,779,566
11/05/01	53.05	40.37	58,837,700
11/06/01	53.45	40.41	58,895,895
11/07/01	56.06	42.89	58,957,658
11/08/01	56.50	43.29	59,020,002
11/09/01	56.53	43.59	59,082,767
11/10/01	56.24	42.99	59,144,666
11/11/01	55.80	39.97	59,202,226
11/12/01	44.88	34.64	59,252,105
11/13/01	43.47	34.84	59,302,273
11/14/01	41.68	31.66	59,347,867
11/15/01	47.00	35.26	59,398,644
11/16/01	54.54	42.04	59,459,181
11/17/01	55.87	43.25	59,521,454
11/18/01	55.26	42.13	59,582,117
11/19/01	53.87	41.32	59,641,614
11/20/01	54.70	41.69	59,701,643
11/21/01	54.34	41.77	59,761,787
11/22/01	54.05	41.57	59,821,646
11/23/01	53.52	41.08	59,880,807
11/24/01	53.53	41.08	59,939,964
11/25/01	53.02	40.67	59,998,525
11/26/01	53.12	40.76	60,057,223
11/27/01	54.06	41.93	60,117,599
11/28/01	54.66	42.08	60,178,190
11/29/01	54.36	40.93	60,237,122
11/30/01	53.96	42.37	60,298,135

Average	53.26	40.72	
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Total ⁽²⁾ :			1,758,943
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
11/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
11/02/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
11/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7
11/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
11/05/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
11/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	3.4
11/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	3.4
11/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	5.1
11/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7
11/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	5.1
11/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	3.4
11/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
11/13/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	6.8
11/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
11/15/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
11/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
11/17/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
11/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
11/19/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
11/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	6.8
11/21/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	6.8
11/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	6.8
11/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
11/24/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	8.5
11/25/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	6.8
11/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	8.5
11/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	5.2	1.7	0.0	0.0	0.0	0.0	10.3
11/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	8.5
11/29/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	10.2
11/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	8.5
Well Total	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	0.0	45.9	0.0	5.1	0.0	0.0	0.0	51.1	20.4	15.3	0.0	0.0	0.0	151.4

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:

PW04, PW05, PW07, PW09, PW10, PW12, PW13, PW15, PW16, PW17, PW19, PW21, PW22, PW23, PW27, PW28, PW29

TABLE 4

**Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Well</u>	September 26, 2001		October 15, 2001		November 16, 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.46	-----	1162.15	-----	1161.90
PW02	-----	1162.47	-----	1162.15	-----	1161.90
PW03	-----	1162.56	-----	1162.26	-----	1162.06
PW3S	-----	-----	-----	1159.41	-----	-----
PW04	-----	1152.46	-----	1154.62	-----	1153.83
PW05	0.02	1155.84	0.04	1154.65	0.03	1153.65
PW06	-----	-----	0.34	1161.12	-----	-----
PW07	0.34	1157.65	0.47	1157.20	0.28	1157.56
PW08	-----	-----	0.28	1160.47	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.15	-----	1160.62	-----	1160.42
PW10	-----	1161.06	-----	1160.58	-----	1160.43
PW11	0.21	1156.92	0.96	1155.21	1.17	1154.76
PW12	-----	1161.41	-----	1160.33	-----	1160.54
PW13	0.01	1157.31	0.02	1156.71	0.02	1157.21
PW14	-----	-----	-----	1160.23	-----	-----
PW15	0.03	1160.43	0.05	1159.81	0.05	1159.74
PW16	-----	1158.46	-----	1157.05	-----	1156.97
PW17	0.26	1156.67	0.18	1158.27	-----	1156.56
PW18	0.03	1158.98	0.69	1157.86	1.19	1157.59
PW19	0.44	1158.82	0.49	1157.57	0.44	1157.81
PW20	1.06	1158.32	0.77	1157.82	1.51	1156.91
PW21	0.09	1159.62	0.06	1159.27	0.06	1158.27
PW22	-----	1161.17	-----	1160.69	-----	1160.51
PW23	0.23	1157.43	0.22	1156.91	0.14	1157.13
PW24	0.34	1158.16	0.45	1157.50	0.79	1156.68
PW25	0.18	1157.83	0.46	1156.99	0.68	1156.56
PW26	0.74	1156.98	1.59	1155.59	0.67	1156.62
PW27	0.10	1155.49	0.42	1154.60	0.91	1155.04
PW28	0.27	1161.14	0.50	1160.66	0.54	1160.41
PW29	-----	1161.46	-----	1161.20	-----	1160.97
P01	0.15	1160.46	0.17	1159.99	0.16	1159.89
OW01	-----	-----	-----	1162.59	-----	-----
W01A	-----	1163.05	-----	1162.79	-----	1162.65
W01B	-----	-----	-----	1162.74	-----	-----
W02	0.22	1162.18	0.18	1161.93	0.17	1161.74
W03A	0.20	1160.30	0.21	1159.79	0.25	1159.74
W03B	-----	1161.23	-----	1161.04	-----	1160.95
W04A	-----	1161.85	0.03	1161.41	0.12	1161.16
W04B	-----	-----	0.04	1161.35	-----	-----
W05	0.29	1160.48	0.37	1159.95	0.35	1159.83
W06R	0.07	1162.84	0.08	1162.54	0.19	1162.19
W07	-----	-----	0.55	1161.82	-----	-----
W08	-----	-----	-----	1172.91	-----	-----
W09	-----	-----	-----	1161.72	-----	-----
W10A	-----	-----	-----	1160.85	-----	-----

TABLE 4

**Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Well</u>	September 26, 2001		October 15, 2001		November 16, 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W10B	-----	-----	-----	1160.86	-----	-----
W11	-----	-----	-----	1160.79	-----	-----
W12	-----	-----	-----	1160.46	-----	-----
W13	-----	1161.21	-----	1161.07	-----	1160.99
W14	-----	-----	-----	1159.61	-----	-----
W16	-----	-----	-----	1161.41	-----	-----
W17	-----	-----	0.25	1159.95	-----	-----
W18	-----	-----	-----	1160.87	-----	-----
W19	-----	-----	-----	1161.93	-----	-----
W21	-----	-----	-----	1160.80	-----	-----
W22	0.04	1160.72	0.03	1160.28	0.05	1160.35
W23	-----	-----	-----	1160.76	-----	-----
W24A	-----	-----	-----	1160.74	-----	-----
W25	-----	1163.01	-----	1162.71	-----	1162.47
W26	-----	-----	-----	1160.81	-----	-----
W27	-----	-----	-----	1161.09	-----	-----
W28	-----	-----	-----	1160.93	-----	-----
W29	-----	-----	-----	1160.82	-----	-----
W30	0.01	1160.54	0.03	1160.08	0.10	1159.90
W31	-----	-----	-----	1160.87	-----	-----
W32	-----	-----	-----	1158.88	-----	-----
W33	-----	-----	0.23	1160.89	-----	-----
W34	0.03	1158.05	0.05	1157.61	0.04	1157.48
W35	0.17	1160.76	0.18	1160.29	0.21	1160.13
W36	-----	1161.52	-----	1161.04	-----	1160.89
W39	-----	-----	-----	1161.15	-----	-----
W40	-----	-----	0.47	1150.19	-----	-----
W41	-----	1161.71	-----	1161.43	-----	1161.27
W42	-----	-----	-----	1161.92	-----	-----
W44	0.02	1160.96	0.16	1160.38	0.17	1160.22
W45	0.04	1161.46	0.03	1160.89	0.03	1160.39
W46	-----	1160.38	0.05	1159.84	-----	1159.84
W47	-----	1156.23	0.35	1155.29	0.38	1155.29
W48	0.05	1156.49	0.21	1155.77	0.23	1155.72
W49	-----	1157.25	0.06	1156.61	0.08	1156.53
W66	-----	1162.80	-----	1162.49	-----	1162.27
W67	-----	1162.75	-----	1162.44	-----	1162.21
W68A	-----	-----	0.30	1162.30	-----	-----
W68B	-----	-----	-----	1162.46	-----	-----
W69	0.80	1160.80	0.99	1160.23	0.83	1160.16
W70B	-----	-----	-----	1162.27	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURES

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

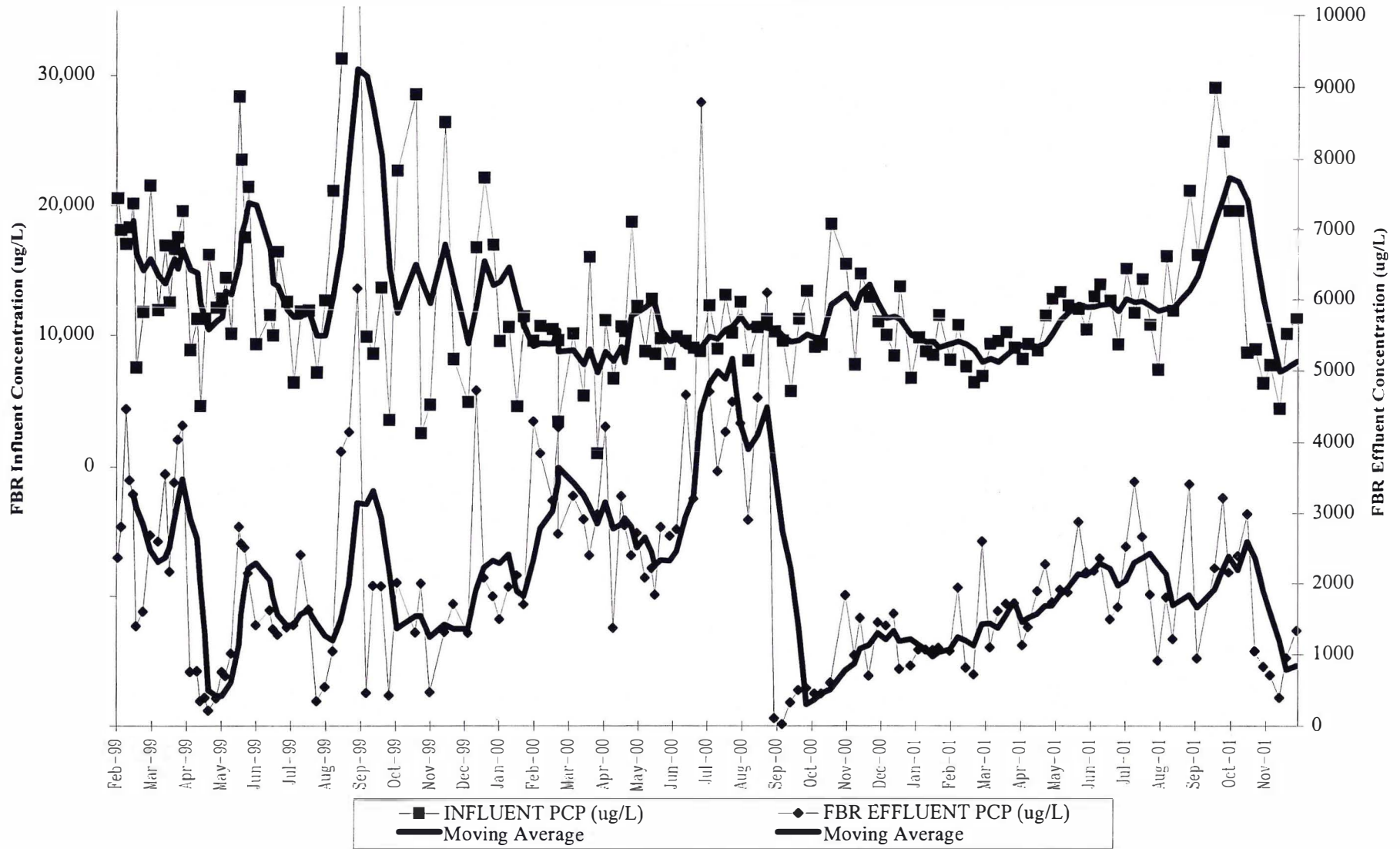
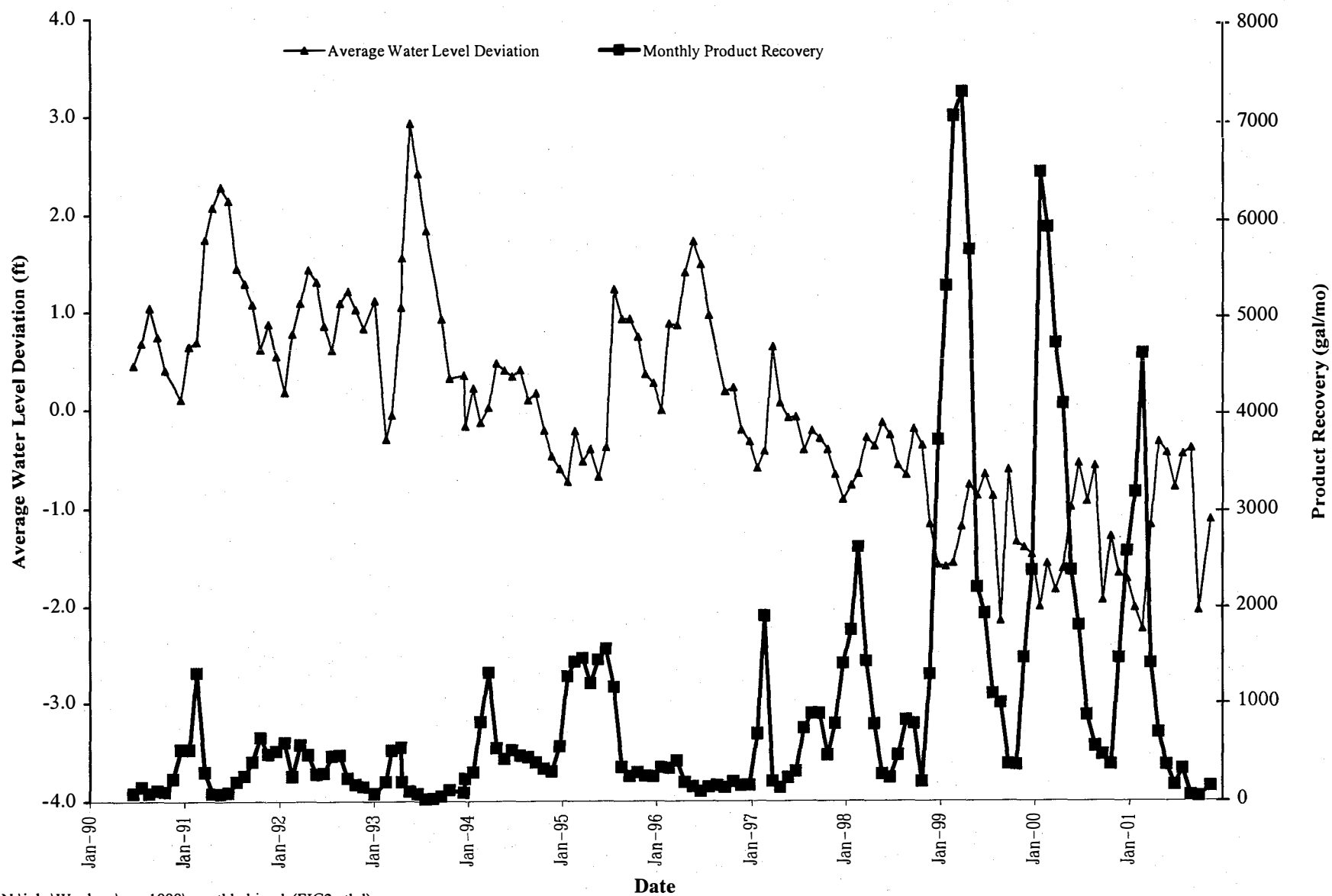


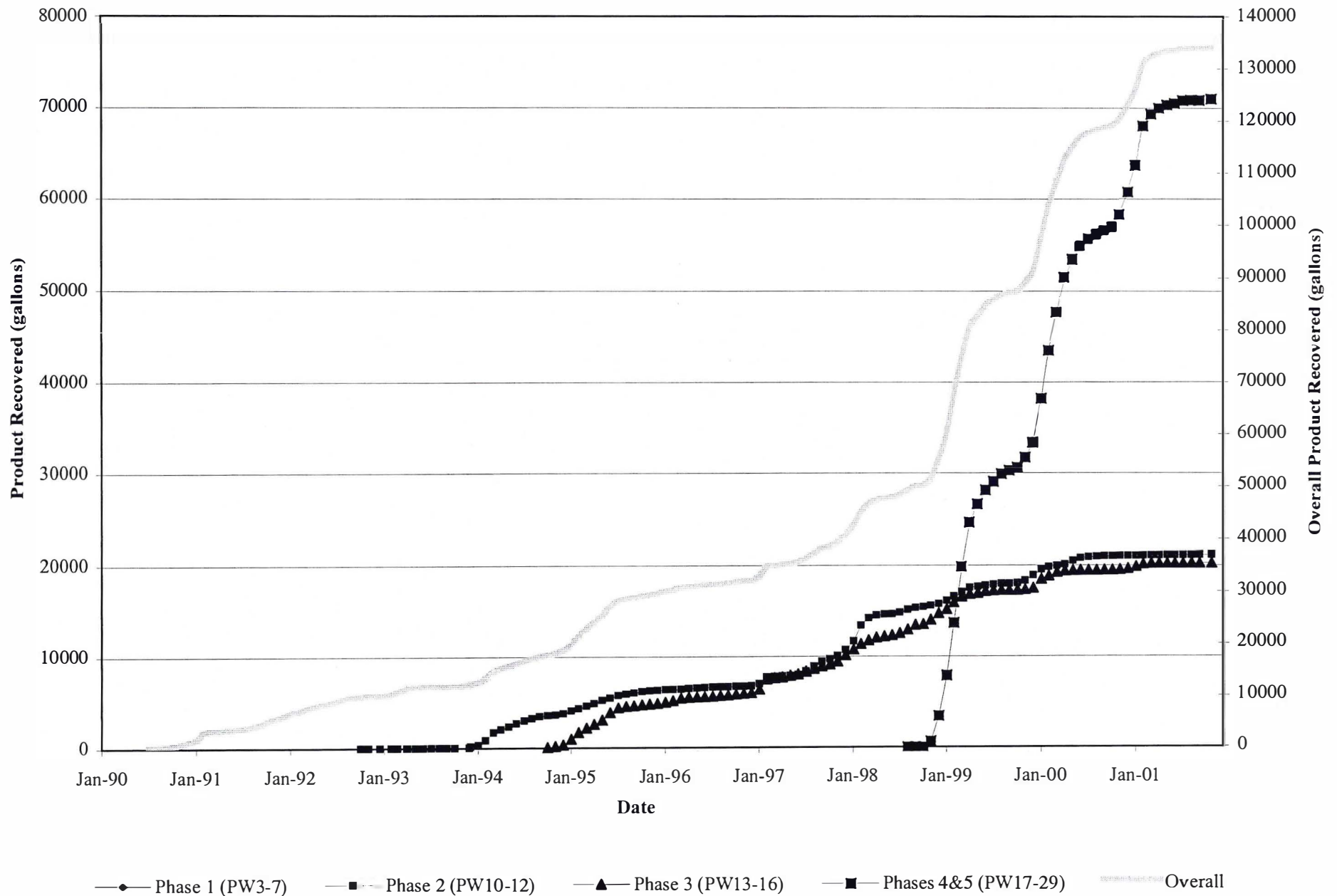
FIGURE 2

Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MWH

MONTGOMERY WATSON HARZA

November 26, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

NOV 28 2001

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson Harza is submitting two copies (enclosed) of the October Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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 HARZA

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
OCTOBER 2001**

SUMMARY OF OCTOBER 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 4 ug/L for the month of October, with a maximum concentration of 10 ug/L on October 19.

Laboratory results from the October sampling event are also included in Table 1. The laboratory result for pentachlorophenol (PCP) in the system effluent for October was <3 ug/L on October 10, 2001. The on-site results for the same period ranged from 3 to 8 ug/L. 2,4,5-Trichlorophenol was also detected in the laboratory system effluent samples. Other phenolic compounds are typical breakdown products of PCP and their presence in the effluent is not unexpected. The total phenol concentration in the effluent was 7.8 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP (and total phenol) concentrations were below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 8869 ug/L to 19,887 ug/L during October (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent decreased during the month. The average PCP removal efficiency for the FBR during October was 83% compared to an average of 85% during the previous year.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on October 10, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was 0.14 ug/L.

Daily groundwater flow through the treatment system (Table 2) averaged 57 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased during October. Product recovery for October was 49 gallons, down from 61 gallons in September. By comparison, total product recovery

was 474 gallons in October 2000. The low product recovery experienced this month is chiefly due to the maintenance shutdown that occurred in September.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for August, September, and October are summarized in Table 4.

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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	10/10/01	7	5				<	
Chemical Oxygen Demand	mg/L	10/10/01	37	25				<	
Chloride	mg/L	10/10/01	220	220				220	
Dissolved Oxygen	mg/L	10/02/01	8.7	4.7	4.9				
	mg/L	10/10/01	8.5	4.9	5.8				
	mg/L	10/18/01	8.6	4.4	4.8				
	mg/L	10/25/01	8.6	4	4.5				
Nitrogen, Ammonia	mg/L	10/02/01	2	0.6	0.5				
	mg/L	10/10/01	2	1	1				
	mg/L	10/18/01	2.5	0.8	0.7				
	mg/L	10/25/01	2	0.6	0.6				
Nitrogen, Nitrate	mg/L	10/02/01	<	<	<				
	mg/L	10/10/01	<	<	<				
	mg/L	10/18/01	<	<	<				
	mg/L	10/25/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	10/10/01	0.61	13				0.31	
Nitrogen, Total Kjeldahl	mg/L	10/10/01	<	<				0.38	
Pentachlorophenol-Screen	µg/L	10/01/01						1	
	µg/L	10/02/01	19879	2157	1257			1	
	µg/L	10/03/01						3	
	µg/L	10/04/01						5	
	µg/L	10/05/01						7	
	µg/L	10/06/01						7	
	µg/L	10/07/01						7	
	µg/L	10/08/01						8	
	µg/L	10/09/01						6	
	µg/L	10/10/01	19887	2393	1257			3	
	µg/L	10/11/01						3	
	µg/L	10/12/01						4	
	µg/L	10/13/01						4	
	µg/L	10/14/01						4	
	µg/L	10/15/01						4	
	µg/L	10/16/01						3	
	µg/L	10/17/01						6	
	µg/L	10/18/01	8869	2987	705			2	
	µg/L	10/19/01						10	
	µg/L	10/20/01						1	
	µg/L	10/21/01						1	
	µg/L	10/22/01						1	
	µg/L	10/23/01						2	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	10/24/01						1	
	µg/L	10/25/01	9118	1045	917			1	
	µg/L	10/26/01						1	
	µg/L	10/27/01						4	
	µg/L	10/28/01						4	
	µg/L	10/29/01						4	
	µg/L	10/30/01						1	
	µg/L	10/31/01						1	
pH	S.U.	10/02/01	6.2	6.4	6.4				
	S.U.	10/10/01	6.25	6.35	6.4				
	S.U.	10/18/01	6.25	6.25	6.4				
	S.U.	10/25/01	6.2	6.3	6.4				
Phosphorus, Ortho	mg/L	10/10/01	<	<				0.19	
Phosphorus, Phosphate	mg/L	10/02/01	0.8	0.3	0.3				
	mg/L	10/10/01	0.8	0.4	0.3				
	mg/L	10/18/01	1.5	0.8	0.8				
	mg/L	10/25/01	1.5	0.8	0.8				
Solids, Total Suspended	mg/L	10/10/01	<	9		11	<	<	
Mercury	ug/L	10/10/01	0.52	0.39				0.14	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	10/10/01	<	68	76	90	<	<	<
2,4,5-Trichlorophenol	µg/L	10/10/01	<	<	<	<	<	7.8	7.2
2,4,6-Trichlorophenol	µg/L	10/10/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	10/10/01	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	10/10/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	10/10/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	10/10/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	10/10/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	10/10/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	10/10/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	10/10/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	10/10/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	10/10/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	10/10/01	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	10/10/01	7500	390	390	530	<	<	<
Phenol	µg/L	10/10/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
10/01/01	56.94	42.99	56,655,619
10/02/01	56.54	42.12	56,716,278
10/03/01	55.93	42.37	56,777,296
10/04/01	58.13	44.23	56,840,992
10/05/01	57.75	43.96	56,904,289
10/06/01	57.48	43.50	56,966,928
10/07/01	57.10	43.45	57,029,490
10/08/01	56.90	43.33	57,091,883
10/09/01	57.61	42.63	57,153,268
10/10/01	57.44	45.06	57,218,153
10/11/01	57.19	43.69	57,281,061
10/12/01	57.84	44.03	57,344,462
10/13/01	57.46	43.54	57,407,161
10/14/01	56.72	43.31	57,469,521
10/15/01	56.30	42.95	57,531,372
10/16/01	57.35	44.12	57,594,905
10/17/01	58.44	44.52	57,659,020
10/18/01	58.06	43.76	57,722,035
10/19/01	57.60	44.22	57,785,712
10/20/01	57.85	43.65	57,848,562
10/21/01	57.33	43.54	57,911,266
10/22/01	54.36	41.22	57,970,618
10/23/01	56.34	43.03	58,032,588
10/24/01	57.72	43.79	58,095,648
10/25/01	57.59	43.81	58,158,740
10/26/01	57.63	42.49	58,219,926
10/27/01	57.61	44.69	58,284,285
10/28/01	59.57	45.20	58,349,370
10/29/01	56.71	43.19	58,411,565
10/30/01	57.32	43.45	58,474,140
10/31/01	58.84	42.49	58,538,570

Average	57.34	43.49	
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Total ⁽²⁾ :			1,944,858
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
10/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/07/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
10/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7
10/09/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
10/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7
10/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/13/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
10/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/15/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
10/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
10/17/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/19/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
10/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
10/21/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
10/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/23/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
10/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/25/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
10/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/28/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
10/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7
10/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
10/31/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
Well Total	0.0	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	3.4	20.4	0.0	0.0	0.0	49.3

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:

PW04, PW05, PW07, PW09, PW10, PW12, PW13, PW15, PW16, PW17, PW19, PW20, PW21, PW22, PW23, PW24, PW27, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	August 14, 2001		September 26, 2001		October 15, 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1160.46
W13	-----	1161.14	-----	1161.21	-----	1161.07
W14	-----	-----	-----	-----	-----	1159.61
W16	-----	-----	-----	-----	-----	1161.41
W17	-----	-----	-----	-----	0.25	1159.95
W18	-----	-----	-----	-----	-----	1160.87
W19	-----	-----	-----	-----	-----	1161.93
W21	-----	-----	-----	-----	-----	1160.80
W22	0.05	1160.59	0.04	1160.72	0.03	1160.28
W23	-----	-----	-----	-----	-----	1160.76
W24A	-----	-----	-----	-----	-----	1160.74
W25	-----	1162.87	-----	1163.01	-----	1162.71
W26	-----	-----	-----	-----	-----	1160.81
W27	-----	-----	-----	-----	-----	1161.09
W28	-----	-----	-----	-----	-----	1160.93
W29	-----	-----	-----	-----	-----	1160.82
W30	0.03	1160.52	0.01	1160.54	0.03	1160.08
W31	-----	-----	-----	-----	-----	1160.87
W32	-----	-----	-----	-----	-----	1158.88
W33	-----	-----	-----	-----	0.23	1160.89
W34	0.06	1157.95	0.03	1158.05	0.05	1157.61
W35	0.27	1160.65	0.17	1160.76	0.18	1160.29
W36	-----	1161.43	-----	1161.52	-----	1161.04
W39	-----	-----	-----	-----	-----	1161.15
W40	-----	-----	-----	-----	0.47	1150.19
W41	-----	1161.63	-----	1161.71	-----	1161.43
W42	-----	-----	-----	-----	-----	1161.92
W44	0.10	1160.83	0.02	1160.96	0.16	1160.38
W45	0.03	1161.42	0.04	1161.46	0.03	1160.89
W46	-----	1160.48	-----	1160.38	0.05	1159.84
W47	0.17	1156.24	-----	1156.23	0.35	1155.29
W48	0.25	1155.97	0.05	1156.49	0.21	1155.77
W49	0.09	1156.89	-----	1157.25	0.06	1156.61
W66	-----	1162.80	-----	1162.80	-----	1162.49
W67	-----	1162.76	-----	1162.75	-----	1162.44
W68A	-----	-----	-----	-----	0.30	1162.30
W68B	-----	-----	-----	-----	-----	1162.46
W69	0.70	1160.82	0.80	1160.80	0.99	1160.23
W70B	-----	-----	-----	-----	-----	1162.27
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	August 14, 2001		September 26, 2001		October 15, 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.47	-----	1162.46	-----	1162.15
PW02	-----	1162.47	-----	1162.47	-----	1162.15
PW03	-----	1162.56	-----	1162.56	-----	1162.26
PW3S	-----	-----	-----	-----	-----	1159.41
PW04	-----	1153.03	-----	1152.46	-----	1154.62
PW05	0.14	1154.89	0.02	1155.84	0.04	1154.65
PW06	-----	-----	-----	-----	0.34	1161.12
PW07	0.45	1157.52	0.34	1157.65	0.47	1157.20
PW08	-----	-----	-----	-----	0.28	1160.47
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.07	-----	1161.15	-----	1160.62
PW10	0.02	1161.00	-----	1161.06	-----	1160.58
PW11	1.01	1156.57	0.21	1156.92	0.96	1155.21
PW12	-----	1162.37	-----	1161.41	-----	1160.33
PW13	0.59	1157.02	0.01	1157.31	0.02	1156.71
PW14	-----	-----	-----	-----	-----	1160.23
PW15	0.11	1160.08	0.03	1160.43	0.05	1159.81
PW16	-----	1158.27	-----	1158.46	-----	1157.05
PW17	0.75	1157.90	0.26	1156.67	0.18	1158.27
PW18	0.09	1158.11	0.03	1158.98	0.69	1157.86
PW19	0.59	1158.16	0.44	1158.82	0.49	1157.57
PW20	1.53	1157.85	1.06	1158.32	0.77	1157.82
PW21	0.47	1158.81	0.09	1159.62	0.06	1159.27
PW22	-----	1161.07	-----	1161.17	-----	1160.69
PW23	0.52	1156.93	0.23	1157.43	0.22	1156.91
PW24	0.53	1157.51	0.34	1158.16	0.45	1157.50
PW25	0.69	1157.30	0.18	1157.83	0.46	1156.99
PW26	0.18	1157.44	0.74	1156.98	1.59	1155.59
PW27	0.78	1156.09	0.10	1155.49	0.42	1154.60
PW28	0.26	1161.12	0.27	1161.14	0.50	1160.66
PW29	-----	1161.45	-----	1161.46	-----	1161.20
P01	0.16	1160.46	0.15	1160.46	0.17	1159.99
OW01	-----	-----	-----	-----	-----	1162.59
W01A	-----	1162.98	-----	1163.05	-----	1162.79
W01B	-----	-----	-----	-----	-----	1162.74
W02	0.21	1162.18	0.22	1162.18	0.18	1161.93
W03A	0.50	1159.87	0.20	1160.30	0.21	1159.79
W03B	-----	1161.10	-----	1161.23	-----	1161.04
W04A	0.17	1161.62	-----	1161.85	0.03	1161.41
W04B	-----	-----	-----	-----	0.04	1161.35
W05	0.07	1160.67	0.29	1160.48	0.37	1159.95
W06R	0.11	1162.79	0.07	1162.84	0.08	1162.54
W07	-----	-----	-----	-----	0.55	1161.82
W08	-----	-----	-----	-----	-----	1172.91
W09	-----	-----	-----	-----	-----	1161.72
W10A	-----	-----	-----	-----	-----	1160.85
W10B	-----	-----	-----	-----	-----	1160.86
W11	-----	-----	-----	-----	-----	1160.79

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

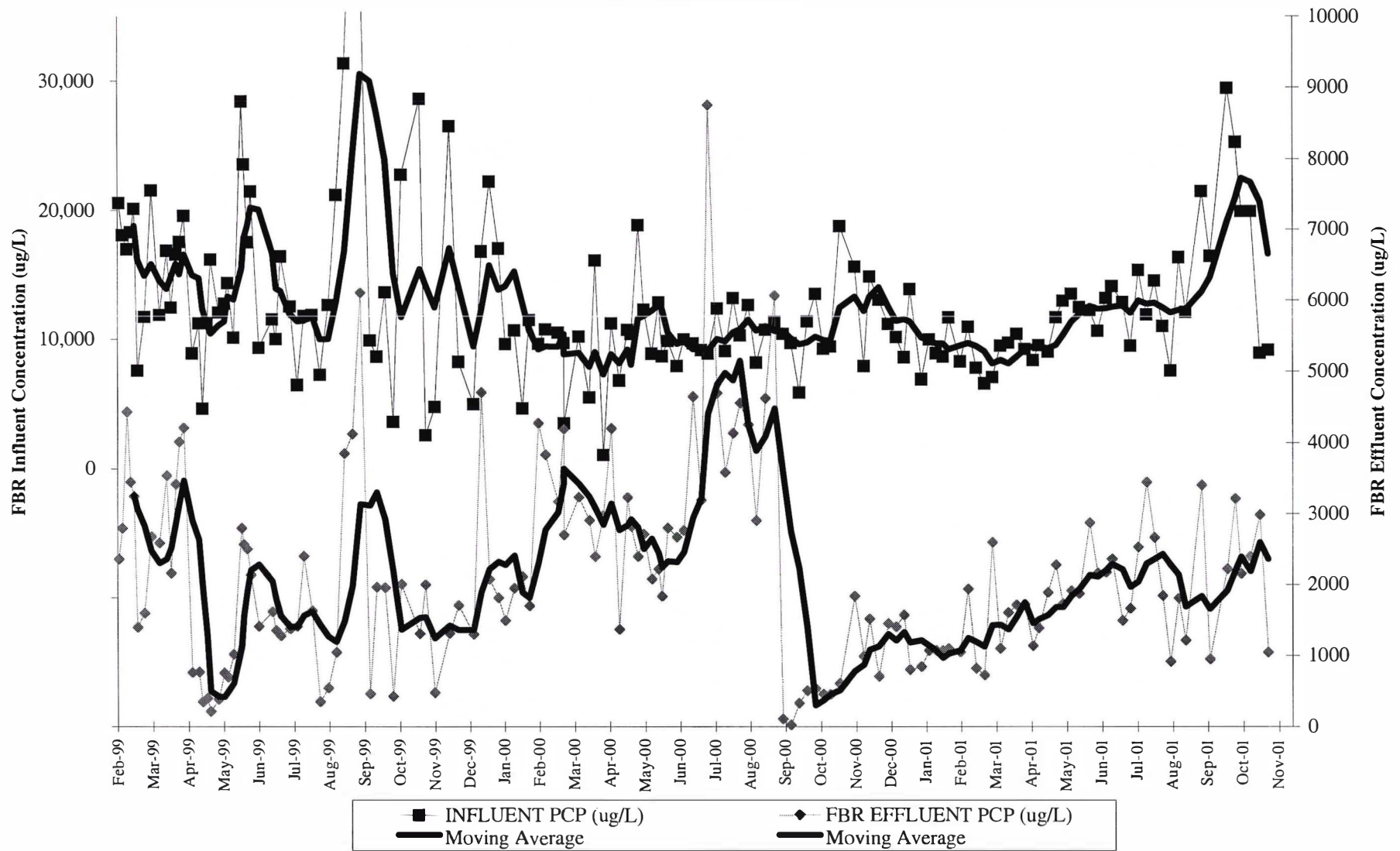
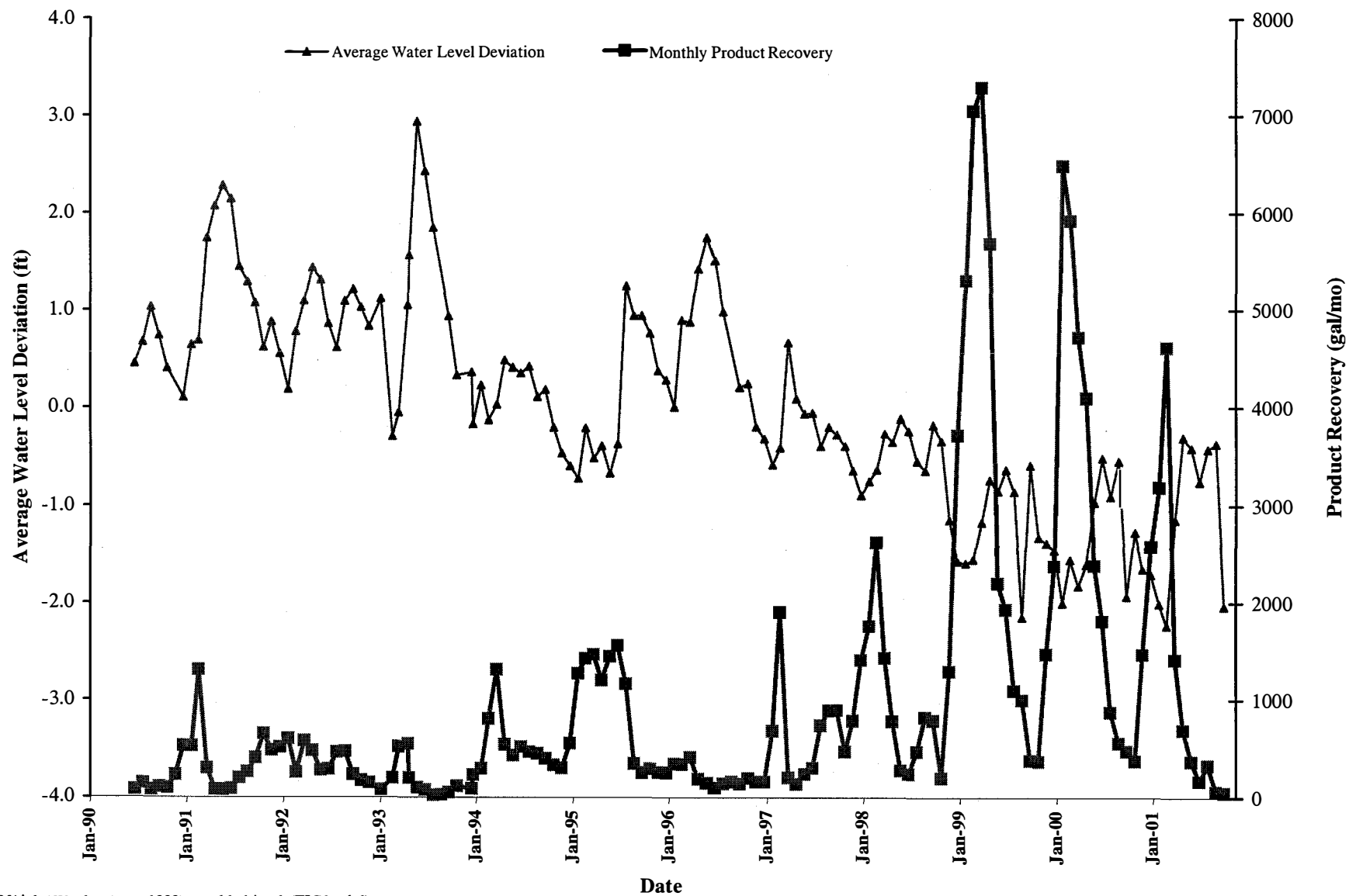
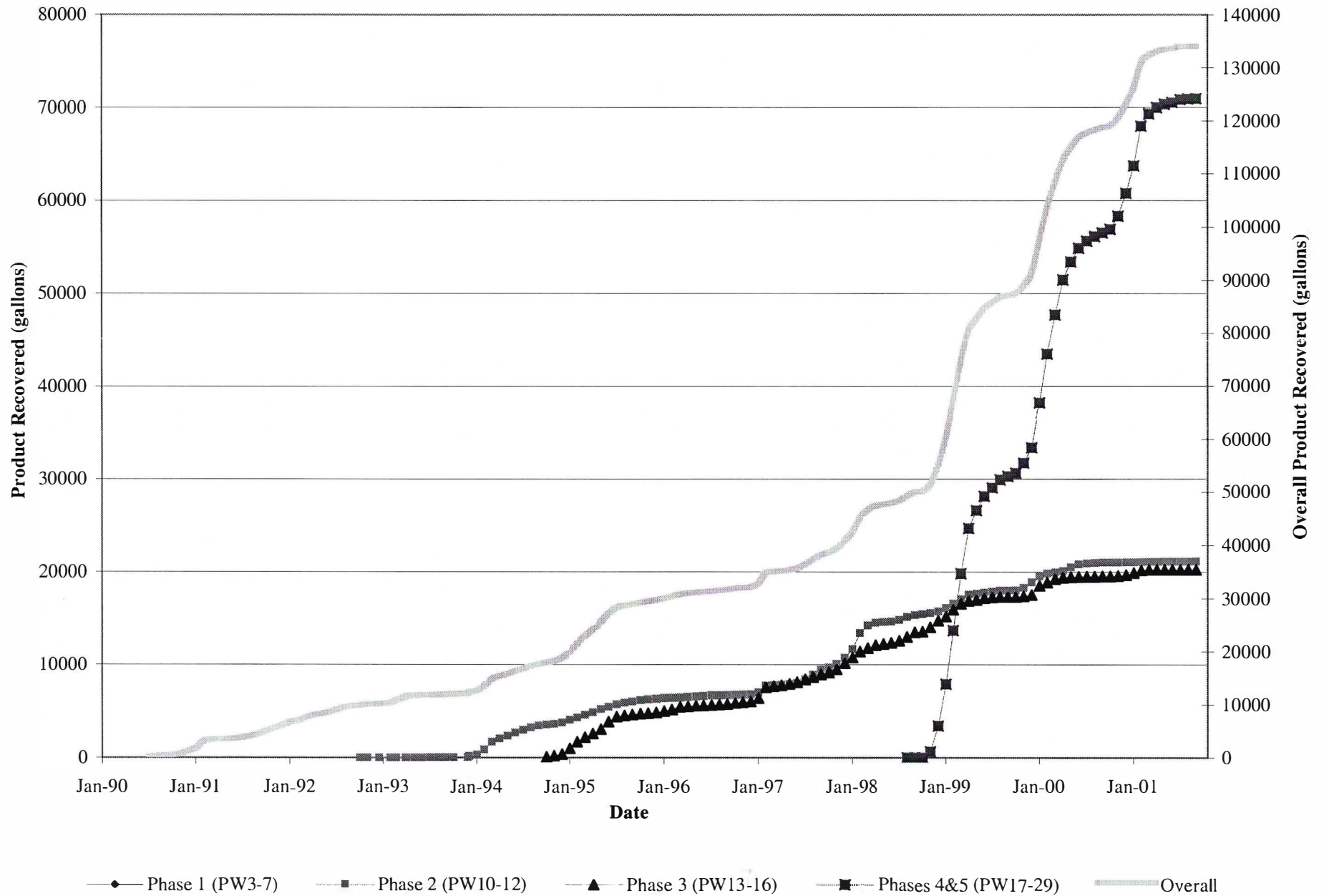


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MWH
MONTGOMERY WATSON HARZA

October 19, 2001

RECEIVED

OCT 22 2001

WAUSAU DNR

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

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

BRR TS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson Harza is submitting two copies (enclosed) of the September Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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 HARZA

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
SEPTEMBER 2001**

SUMMARY OF SEPTEMBER 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 17 ug/L for the month of September, with a maximum concentration of 42 ug/L on September 1 through 4.

Laboratory results from the September sampling event are also included in Table 1. The laboratory result for pentachlorophenol (PCP) in the system effluent for September was <3 ug/L on September 20, 2001. The on-site results for the same period ranged from 4 to 11 ug/L. 2,4,5-Trichlorophenol, 2,4-Dimethylphenol, and 2,4-Dinitrophenol were also detected in the laboratory system effluent samples. Other phenolic compounds are typical breakdown products of PCP and their presence in the effluent is not unexpected. The total phenol concentration in the effluent was 31 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP (and total phenol) concentrations were below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 16,415 ug/L to 29,246 ug/L during September (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent and effluent increased during the month. The average PCP removal efficiency for the FBR during September was 91% compared to an average of 86% during the previous year.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on September 20, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was 0.18 ug/L.

Daily groundwater flow through the treatment system (Table 2) averaged 39 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

A number of maintenance activities occurred during the month of September. These activities were scheduled in order to coincide with the historically least productive month of product recovery. By performing all these activities in one event, the need for additional shutdowns during the next year will be minimized. A timeline of the maintenance activities is presented on the following page:

Date	Activities
September 9	– Shut down pumping wells in order to drain oil/water separator and settling tank
September 10	– Redevelop pumping wells (PW-4, 11, 13, 18, 24, 25, 26, and 27) – Vacuum and clean oil/water separator & settling tank – Vacuum FBR and spread carbon to dry (to be sent for regeneration) – Perform air compressor maintenance
September 11	– Vacuum carbon finishing vessels 1 through 8 and begin transfer to FBR – Jet open FBR lines – Install backwash lines for carbon finishing vessels 3 through 8 – Perform air dryer maintenance
September 12	– Refill carbon finishing vessels with virgin carbon – Install bypass lines between carbon finishing vessels 1 & 2, and 3 & 8 – Complete carbon transfer to FBR
September 13	– Soak carbon in all vessels – Cleanup
September 14	– System restarted
September 19	– All pumping wells on, flow returned to standard rates

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site remained stable during September. Product recovery for September was 61 gallons, down from 331 gallons in August. By comparison, total product recovery was 557 gallons in September 2000. The low product recovery experienced this month is chiefly due to the brief shutdown.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

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TABLE 1

Page 1 of 2

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	09/20/01	10	4				<	
Chemical Oxygen Demand	mg/L	09/20/01	35	22				<	
Chloride	mg/L	09/20/01	200	190				190	
Dissolved Oxygen	mg/L	09/05/01	8.5	4	4.8				
	mg/L	09/20/01	8.6	6.4	6.4				
	mg/L	09/27/01	8.8	4.7	5.2				
Nitrogen, Ammonia	mg/L	09/05/01	2	0.8	0.6				
	mg/L	09/20/01	2	1.5	0.9				
	mg/L	09/27/01	1.5	0.3	0.3				
Nitrogen, Nitrate	mg/L	09/05/01	<	<	<				
	mg/L	09/20/01	<	0.4	<				
	mg/L	09/27/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	09/20/01	0.66	0.97				<	
Nitrogen, Total Kjeldahl	mg/L	09/20/01	<	<				<	
Pentachlorophenol-Screen	µg/L	09/01/01						42	
	µg/L	09/02/01						42	
	µg/L	09/03/01						42	
	µg/L	09/04/01						42	
	µg/L	09/05/01	16415	946	251			37	
	µg/L	09/06/01						22	
	µg/L	09/07/01						28	
	µg/L	09/08/01						30	
	µg/L	09/09/01						30	
	µg/L	09/10/01						30	
	µg/L	09/11/01						30	
	µg/L	09/14/01						12	
	µg/L	09/15/01						12	
	µg/L	09/16/01						12	
	µg/L	09/17/01						12	
	µg/L	09/18/01						4	
	µg/L	09/19/01						11	
	µg/L	09/20/01	29426	2218	735			9	
	µg/L	09/21/01						4	
	µg/L	09/22/01						4	
	µg/L	09/23/01						4	
	µg/L	09/24/01						4	
	µg/L	09/25/01						6	
	µg/L	09/26/01						6	
	µg/L	09/27/01	25272	3215	2667			4	
	µg/L	09/28/01						2	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Pentachlorophenol-Screen	µg/L	09/29/01						1	
	µg/L	09/30/01						1	
pH	S.U.	09/05/01	6.3	6.3	6.5				
	S.U.	09/20/01	6.3	6.5	6.7				
	S.U.	09/27/01	6.2	6.45	6.5				
Phosphorus, Ortho	mg/L	09/20/01	<	<				0.12	
Phosphorus, Phosphate	mg/L	09/05/01	1.5	0.8	0.6				
	mg/L	09/20/01	1	0.4	0.4				
	mg/L	09/27/01	1	0.3	0.3				
Solids, Total Suspended	mg/L	09/20/01	4	7		4	<	<	
Mercury	µg/L	09/20/01	0.56	0.44				0.18	
<u>Phenols</u>									
2,3,4,6-Tetrachlorophenol	µg/L	09/20/01	<	110	41	43	<	<	<
2,4,5-Trichlorophenol	µg/L	09/20/01	<	<	<	<	<	9.3	9.7
2,4,6-Trichlorophenol	µg/L	09/20/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	09/20/01	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	09/20/01	<	<	<	<	5.2	3.9	3.1
2,4-Dinitrophenol	µg/L	09/20/01	<	70	36	37	22	13	6.3
2,6-Dichlorophenol	µg/L	09/20/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	09/20/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	09/20/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	09/20/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	09/20/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	09/20/01	<	<	<	<	12	<	<
4-Chloro-3-Methylphenol	µg/L	09/20/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	09/20/01	<	<	<	<	<	5	<
Pentachlorophenol	µg/L	09/20/01	9100	660	240	260	<	<	<
Phenol	µg/L	09/20/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
09/01/01	50.49	38.75	55,329,512
09/02/01	50.11	40.08	55,387,232
09/03/01	50.12	40.04	55,444,887
09/04/01	50.08	39.49	55,501,758
09/05/01	50.09	39.52	55,558,673
09/06/01	50.08	39.88	55,616,093
09/07/01	49.99	38.60	55,671,674
09/08/01	38.40	29.06	55,713,517
09/09/01	46.50	36.18	55,765,619
09/10/01	14.47	13.62	55,785,233
09/11/01	0.00	0.70	55,786,248
09/12/01	0.00	1.32	55,788,150
09/13/01	0.00	0.00	55,788,151
09/14/01	7.04	0.00	55,788,151
09/15/01	19.75	15.15	55,809,974
09/16/01	27.21	21.56	55,841,024
09/17/01	27.24	21.74	55,872,329
09/18/01	24.67	19.47	55,900,366
09/19/01	29.85	24.37	55,935,455
09/20/01	44.51	36.23	55,987,622
09/21/01	47.38	38.41	56,042,938
09/22/01	52.75	39.77	56,100,207
09/23/01	53.99	42.10	56,160,825
09/24/01	53.91	42.16	56,221,533
09/25/01	57.20	45.57	56,287,156
09/26/01	57.19	44.83	56,351,711
09/27/01	57.03	43.30	56,414,064
09/28/01	56.97	41.08	56,473,223
09/29/01	56.89	44.05	56,536,655
09/30/01	56.95	39.62	56,593,712

Average	39.36	30.56	
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Total ⁽²⁾:

1,319,999

Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
09/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	0.0	0.0	0.0	8.5
09/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.4	1.7	0.0	0.0	6.8
09/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	0.0	0.0	0.0	8.5
09/04/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.4	1.7	0.0	0.0	10.2
09/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	0.0	0.0	0.0	8.5
09/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	5.1
09/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	5.1
09/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	5.1
09/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	3.4
09/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/13/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/15/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/17/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/19/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/21/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/25/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well Total	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	13.6	11.9	20.4	5.1	0.0	0.0	61.2

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:

PW04, PW05, PW07, PW09, PW10, PW12, PW13, PW15, PW16, PW17, PW19, PW20, PW21, PW22, PW23, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	July 09, 2001		August 14, 2001		September 26, 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.38	-----	1162.47	-----	1162.46
PW02	-----	1162.39	-----	1162.47	-----	1162.47
PW03	-----	1162.45	-----	1162.56	-----	1162.56
PW3S	-----	1159.61	-----	-----	-----	-----
PW04	0.66	1154.29	-----	1153.03	-----	1152.46
PW05	0.08	1155.35	0.14	1154.89	0.02	1155.84
PW06	0.42	1161.31	-----	-----	-----	-----
PW07	0.43	1157.46	0.45	1157.52	0.34	1157.65
PW08	0.36	1160.58	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.83	-----	1161.07	-----	1161.15
PW10	0.03	1160.77	0.02	1161.00	-----	1161.06
PW11	0.85	1155.87	1.01	1156.57	0.21	1156.92
PW12	-----	1162.14	-----	1162.37	-----	1161.41
PW13	0.60	1155.16	0.59	1157.02	0.01	1157.31
PW14	-----	1160.34	-----	-----	-----	-----
PW15	0.14	1159.84	0.11	1160.08	0.03	1160.43
PW16	-----	1158.70	-----	1158.27	-----	1158.46
PW17	0.95	1156.91	0.75	1157.90	0.26	1156.67
PW18	0.36	1156.19	0.09	1158.11	0.03	1158.98
PW19	0.55	1158.42	0.59	1158.16	0.44	1158.82
PW20	1.16	1157.92	1.53	1157.85	1.06	1158.32
PW21	0.79	1158.01	0.47	1158.81	0.09	1159.62
PW22	-----	1160.91	-----	1161.07	-----	1161.17
PW23	0.75	1156.65	0.52	1156.93	0.23	1157.43
PW24	0.46	1157.38	0.53	1157.51	0.34	1158.16
PW25	0.36	1157.26	0.69	1157.30	0.18	1157.83
PW26	0.42	1157.16	0.18	1157.44	0.74	1156.98
PW27	0.84	1155.78	0.78	1156.09	0.10	1155.49
PW28	0.24	1161.07	0.26	1161.12	0.27	1161.14
PW29	-----	1161.40	-----	1161.45	-----	1161.46
P01	0.18	1160.14	0.16	1160.46	0.15	1160.46
OW01	-----	1162.86	-----	-----	-----	-----
W01A	-----	1162.99	-----	1162.98	-----	1163.05
W01B	-----	1162.87	-----	-----	-----	-----
W02	0.20	1162.11	0.21	1162.18	0.22	1162.18
W03A	0.52	1159.74	0.50	1159.87	0.20	1160.30
W03B	-----	1161.12	-----	1161.10	-----	1161.23
W04A	0.18	1161.52	0.17	1161.62	-----	1161.85
W04B	0.04	1161.61	-----	-----	-----	-----
W05	0.13	1160.35	0.07	1160.67	0.29	1160.48
W06R	0.16	1162.69	0.11	1162.79	0.07	1162.84
W07	0.52	1162.08	-----	-----	-----	-----
W08	-----	1174.12	-----	-----	-----	-----
W09	-----	1161.93	-----	-----	-----	-----
W10A	-----	1160.86	-----	-----	-----	-----
W10B	-----	1160.87	-----	-----	-----	-----
W11	-----	1160.76	-----	-----	-----	-----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	July 09, 2001		August 14, 2001		September 26, 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1160.43	-----	-----	-----	-----
W13	-----	1161.11	-----	1161.14	-----	1161.21
W14	-----	1159.48	-----	-----	-----	-----
W16	-----	1161.56	-----	-----	-----	-----
W17	0.20	1160.17	-----	-----	-----	-----
W18	-----	1160.84	-----	-----	-----	-----
W19	-----	1162.21	-----	-----	-----	-----
W21	-----	1160.69	-----	-----	-----	-----
W22	0.05	1160.52	0.05	1160.59	0.04	1160.72
W23	-----	1160.65	-----	-----	-----	-----
W24A	-----	1160.61	-----	-----	-----	-----
W25	-----	1162.82	-----	1162.87	-----	1163.01
W26	-----	1160.80	-----	-----	-----	-----
W27	-----	1161.21	-----	-----	-----	-----
W28	-----	1160.86	-----	-----	-----	-----
W29	-----	1160.75	-----	-----	-----	-----
W30	0.07	1160.20	0.03	1160.52	0.01	1160.54
W31	-----	1160.68	-----	-----	-----	-----
W32	-----	1160.67	-----	-----	-----	-----
W33	0.30	1161.06	-----	-----	-----	-----
W34	0.09	1157.77	0.06	1157.95	0.03	1158.05
W35	0.15	1160.50	0.27	1160.65	0.17	1160.76
W36	-----	1161.61	-----	1161.43	-----	1161.52
W39	-----	1158.38	-----	-----	-----	-----
W40	0.61	1160.29	-----	-----	-----	-----
W41	-----	1161.73	-----	1161.63	-----	1161.71
W42	0.05	1162.14	-----	-----	-----	-----
W44	0.20	1160.51	0.10	1160.83	0.02	1160.96
W45	0.03	1160.96	0.03	1161.42	0.04	1161.46
W46	0.04	1160.01	-----	1160.48	-----	1160.38
W47	0.45	1155.75	0.17	1156.24	-----	1156.23
W48	0.40	1155.63	0.25	1155.97	0.05	1156.49
W49	0.20	1156.61	0.09	1156.89	-----	1157.25
W66	-----	1162.73	-----	1162.80	-----	1162.80
W67	-----	1162.68	-----	1162.76	-----	1162.75
W68A	0.26	1162.53	-----	-----	-----	-----
W68B	-----	1162.68	-----	-----	-----	-----
W69	1.10	1160.35	0.70	1160.82	0.80	1160.80
W70B	-----	1162.50	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

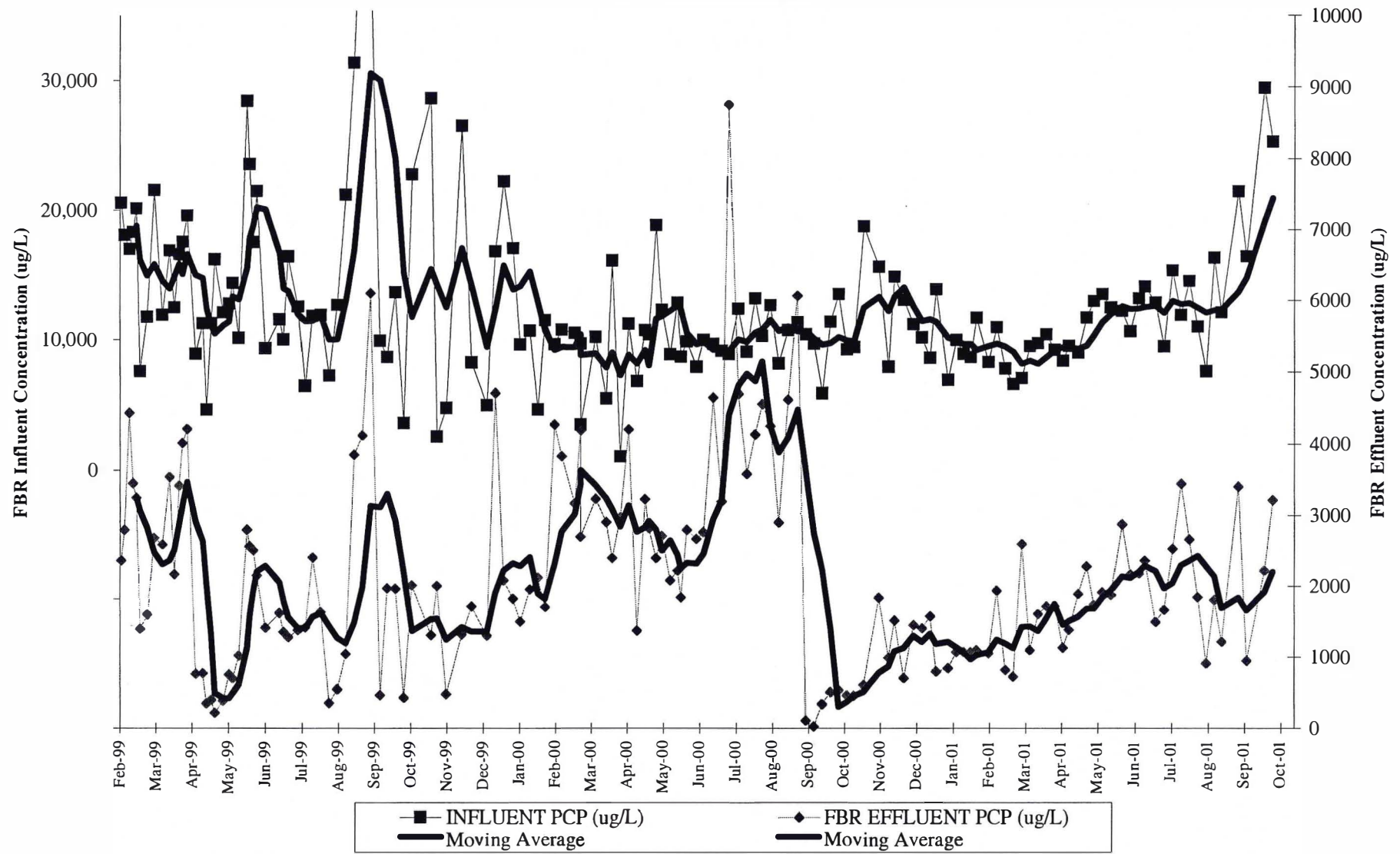
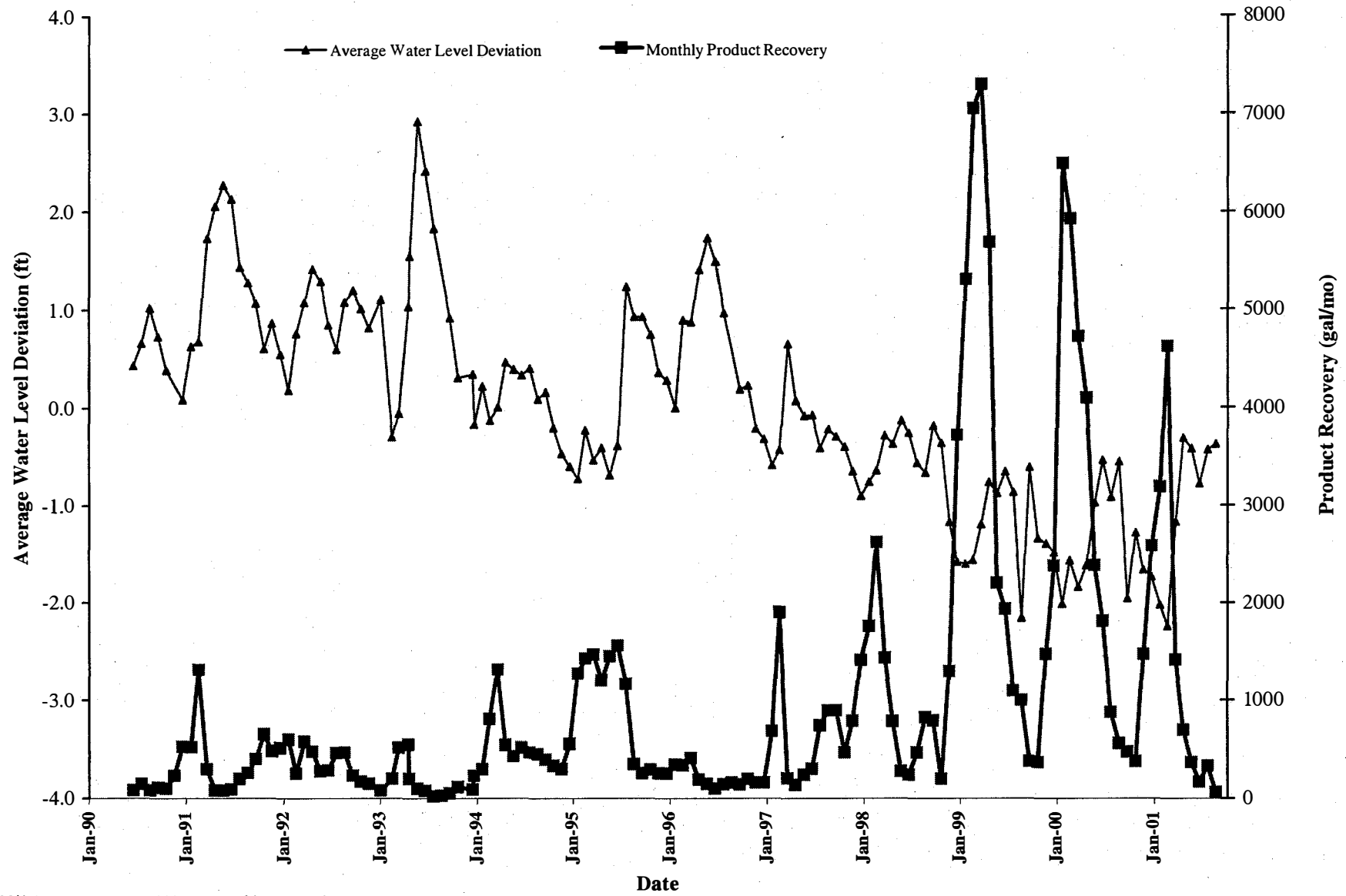
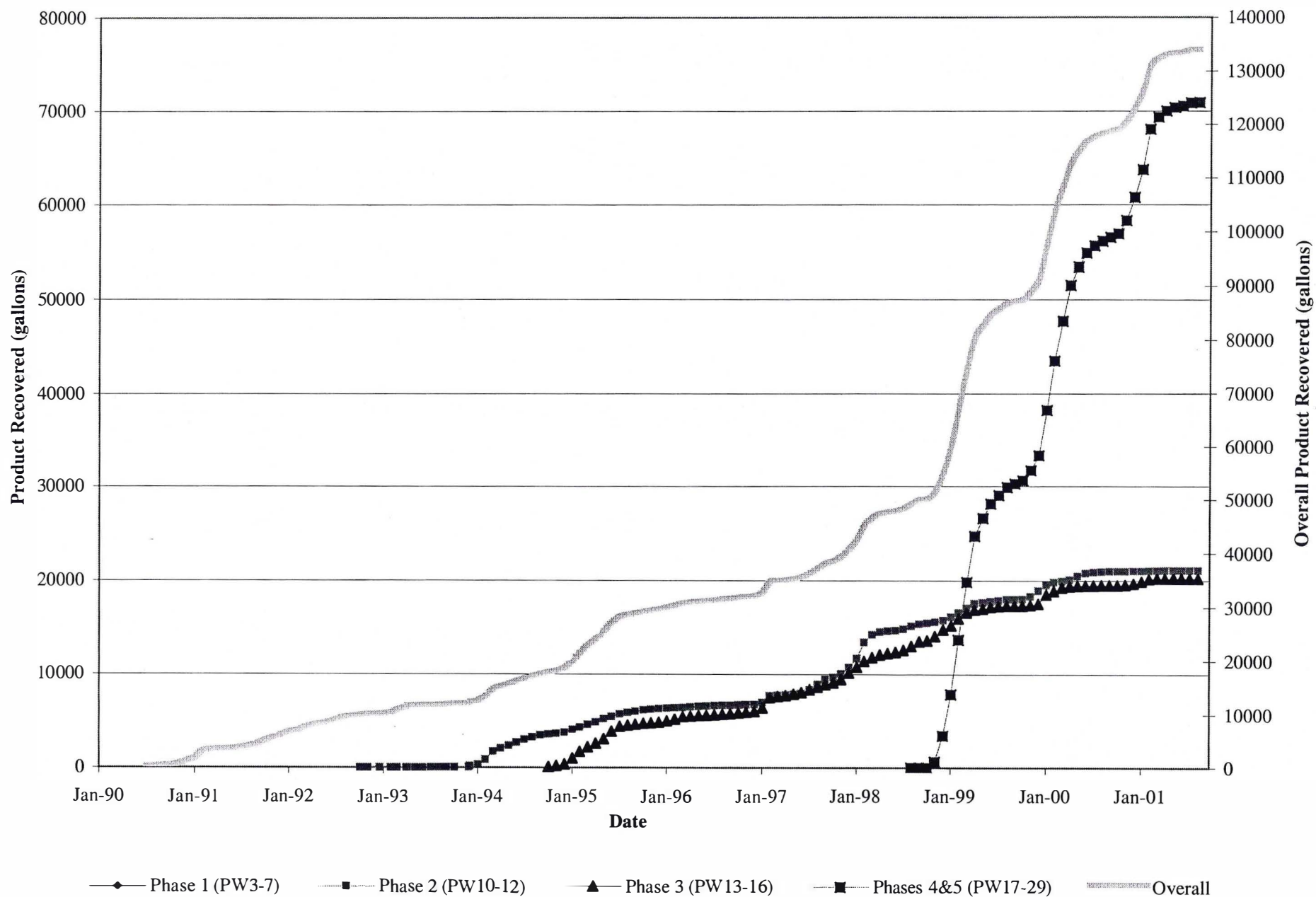


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MWH

MONTGOMERY WATSON HARZA

September 10, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED

SEP 11 2001

WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson Harza is submitting two copies (enclosed) of the August Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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 HARZA

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
AUGUST 2001**

SUMMARY OF AUGUST 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 9.1 ug/L for the month of August, with a maximum concentration of 61 ug/L on August 30.

Laboratory results from the August sampling event are also included in Table 1. The laboratory result for pentachlorophenol (PCP) in the system effluent for August was <3 ug/L on August 15, 2001. The on-site results for the same period ranged from 1 to 5 ug/L. 2,4,5-Trichlorophenol was detected in the laboratory system effluent samples. Other phenolic compounds are typical breakdown products of PCP and their presence in the effluent is not unexpected. The total phenol concentration in the effluent was 11 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP (and total phenol) concentrations were below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 7534 ug/L to 21,438 ug/L during August (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent increased during the month, while effluent PCP concentrations increased during the last week of the month. The average PCP removal efficiency for the FBR during August was 88% compared to an average of 86% during the previous year. The activated carbon in the FBR is scheduled to be changed out in early September.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on August 15, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was <0.14 ug/L.

Daily groundwater flow through the treatment system (Table 2) averaged 51 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased during August. Product recovery for August

was 331 gallons, up from 168 gallons in July. By comparison, total product recovery was 871 gallons in August 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

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TABLE 1
Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Biological Oxygen Demand	mg/L	08/15/01	11	3				<	
Chemical Oxygen Demand	mg/L	08/15/01	56	97				22	
Chloride	mg/L	08/15/01	230	230				230	
Dissolved Oxygen	mg/L	08/02/01	7.4	4.1	4.2				
	mg/L	08/09/01	8.1	2.8	3.8				
	mg/L	08/15/01	8.6	3.8	4.3				
	mg/L	08/23/01	8.2	3.1	4.8				
	mg/L	08/29/01	8.4	5.8	5				
Nitrogen, Ammonia	mg/L	08/02/01	2.5	0.5	0.5				
	mg/L	08/09/01	2	0.6	0.6				
	mg/L	08/15/01	1.5	1	1				
	mg/L	08/23/01	2	0.5	0.5				
	mg/L	08/29/01	2.5	0.5	0.6				
Nitrogen, Nitrate	mg/L	08/02/01	<	0.3	<				
	mg/L	08/09/01	<	<	<				
	mg/L	08/15/01	<	<	<				
	mg/L	08/23/01	<	<	0.2				
	mg/L	08/29/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	08/15/01	0.4	0.3				<	
Nitrogen, Total Kjeldahl	mg/L	08/15/01	1.5	0.61				<	
Pentachlorophenol-Screen	µg/L	08/01/01						2	
	µg/L	08/02/01	7534	913	627			3	
	µg/L	08/03/01						6	
	µg/L	08/04/01						2	
	µg/L	08/05/01						2	
	µg/L	08/06/01						2	
	µg/L	08/07/01						7	
	µg/L	08/08/01						5	
	µg/L	08/09/01	16317	1806	1163			6	
	µg/L	08/10/01						3	
	µg/L	08/11/01						1	
	µg/L	08/12/01						1	
	µg/L	08/13/01						1	
	µg/L	08/14/01						2	
	µg/L	08/15/01	12066	1214	556			1	
	µg/L	08/16/01						5	
	µg/L	08/17/01						4	
	µg/L	08/18/01						7	
	µg/L	08/19/01						7	
	µg/L	08/20/01						7	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Pentachlorophenol-Screen	µg/L	08/21/01						11	
	µg/L	08/22/01						13	
	µg/L	08/23/01		2187	1155			9	
	µg/L	08/24/01						12	
	µg/L	08/25/01						8	
	µg/L	08/26/01						8	
	µg/L	08/27/01						8	
	µg/L	08/28/01						8	
	µg/L	08/29/01	21438	3408	3433			12	
	µg/L	08/30/01						61	
	µg/L	08/31/01						57	
pH	S.U.	08/02/01	6.3	6.3	6.35				
	S.U.	08/09/01	6.3	6.3	6.35				
	S.U.	08/15/01	6.2	6.3	6.3				
	S.U.	08/23/01	6.2	6.25	6.4				
	S.U.	08/29/01	6.2	6.35	6.4				
Phosphorus, Ortho	mg/L	08/15/01	1	0.78					
Phosphorus, Phosphate	mg/L	08/02/01	1.4	0.9	0.9				
	mg/L	08/09/01	1.5	0.8	0.8				
	mg/L	08/15/01	1.5	0.9	0.8				
	mg/L	08/23/01	1.5	0.7	0.7				
	mg/L	08/29/01	1.5	0.8	0.9				
Solids, Total Suspended	mg/L	08/15/01	6	12		<	6	<	
Mercury	µg/L	08/15/01	0.32	0.26				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	08/15/01	<	<	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	08/15/01	<	<	<	<	<	11	14
2,4,6-Trichlorophenol	µg/L	08/15/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	08/15/01	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	08/15/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	08/15/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	08/15/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	08/15/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	08/15/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	08/15/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	08/15/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	08/15/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	08/15/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	08/15/01	1000	<	53	54	<	<	<
Pentachlorophenol	µg/L	08/15/01	9200	1100	480	470	110	<	<
Phenol	µg/L	08/15/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
08/01/01	53.10	40.72	53,593,031
08/02/01	52.96	41.30	53,652,507
08/03/01	52.88	41.31	53,711,996
08/04/01	52.99	41.29	53,771,457
08/05/01	53.22	40.96	53,830,446
08/06/01	53.25	40.31	53,888,496
08/07/01	53.15	40.41	53,946,690
08/08/01	49.01	36.03	53,998,575
08/09/01	47.86	36.95	54,051,783
08/10/01	47.51	36.23	54,103,956
08/11/01	50.07	37.85	54,158,453
08/12/01	50.28	38.14	54,213,378
08/13/01	49.21	38.02	54,268,131
08/14/01	52.24	40.20	54,326,024
08/15/01	51.49	39.89	54,383,463
08/16/01	50.76	39.42	54,440,234
08/17/01	51.96	40.13	54,498,015
08/18/01	52.31	40.38	54,556,165
08/19/01	51.69	39.80	54,613,476
08/20/01	51.46	39.38	54,670,182
08/21/01	51.54	38.89	54,726,179
08/22/01	51.38	39.65	54,783,280
08/23/01	50.59	37.18	54,836,822
08/24/01	50.35	39.47	54,893,652
08/25/01	50.39	37.70	54,947,938
08/26/01	50.20	36.74	55,000,850
08/27/01	51.51	35.89	55,052,525
08/28/01	48.90	36.82	55,105,542
08/29/01	50.64	39.47	55,162,384
08/30/01	49.18	38.47	55,217,785
08/31/01	50.61	38.84	55,273,713

Average	51.05	38.96	
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Total ⁽²⁾ :			1,739,318
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
08/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	3.4
08/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.7	0.0	0.0	5.1
08/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	3.4
08/04/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.7	0.0	0.0	8.5
08/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	1.7	0.0	0.0	0.0	3.4	1.7	0.0	1.7	0.0	0.0	15.4
08/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.6	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	3.4	0.0	0.0	17.1
08/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	12.0
08/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	0.0	13.7
08/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	12.0
08/10/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	0.0	15.4
08/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	1.7	1.7	0.0	1.7	0.0	0.0	15.4
08/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	0.0	17.1
08/13/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	10.3	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	18.8
08/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	18.8
08/15/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	10.3	1.7	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	20.5
08/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	1.7	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	0.0	15.4
08/17/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	5.2	1.7	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	15.4
08/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	10.3
08/19/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	8.5
08/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	6.8
08/21/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	6.8
08/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
08/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
08/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
08/25/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
08/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
08/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.7	0.0	0.0	5.1
08/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	8.5
08/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	8.5
08/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	1.7	0.0	3.4	0.0	0.0	0.0	10.2
08/31/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	0.0	10.2
Well Total	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	8.5	152.7	11.9	3.4	0.0	0.0	0.0	69.7	37.4	27.2	11.9	0.0	0.0	331.2

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:
PW04, PW05, PW07, PW09, PW10, PW12, PW13, PW15, PW16, PW21, PW22, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	June 20 2001		July 09 2001		August 14 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	----	1162.51	----	1162.38	----	1162.47
PW02	----	1162.53	----	1162.39	----	1162.47
PW03	----	1162.59	----	1162.45	----	1162.56
PW3S	----	----	----	1159.61	----	----
PW04	0.30	1155.70	0.66	1154.29	----	1153.03
PW05	0.02	1155.86	0.08	1155.35	0.14	1154.89
PW06	----	----	0.42	1161.31	----	----
PW07	0.44	1157.73	0.43	1157.46	0.45	1157.52
PW08	----	----	0.36	1160.58	----	----
PW9I	----	----	----	----	----	----
PW9O	----	1161.08	----	1160.83	----	1161.07
PW10	0.03	1161.00	0.03	1160.77	0.02	1161.00
PW11	1.03	1156.10	0.85	1155.87	1.01	1156.57
PW12	----	1162.32	----	1162.14	----	1162.37
PW13	0.62	1156.05	0.60	1155.16	0.59	1157.02
PW14	----	----	----	1160.34	----	----
PW15	0.15	1160.21	0.14	1159.84	0.11	1160.08
PW16	----	1159.08	----	1158.70	----	1158.27
PW17	0.76	1155.31	0.95	1156.91	0.75	1157.90
PW18	0.18	1158.15	0.36	1156.19	0.09	1158.11
PW19	0.50	1158.75	0.55	1158.42	0.59	1158.16
PW20	0.73	1158.64	1.16	1157.92	1.53	1157.85
PW21	0.43	1158.66	0.79	1158.01	0.47	1158.81
PW22	----	1161.15	----	1160.91	----	1161.07
PW23	0.70	1156.49	0.75	1156.65	0.52	1156.93
PW24	1.15	1157.21	0.46	1157.38	0.53	1157.51
PW25	0.79	1157.30	0.36	1157.26	0.69	1157.30
PW26	0.43	1157.53	0.42	1157.16	0.18	1157.44
PW27	0.69	1156.46	0.84	1155.78	0.78	1156.09
PW28	0.19	1161.27	0.24	1161.07	0.26	1161.12
PW29	----	1161.62	----	1161.40	----	1161.45
P01	0.17	1160.45	0.18	1160.14	0.16	1160.46
OW01	----	----	----	1162.86	----	----
W01A	----	1162.85	----	1162.99	----	1162.98
W01B	----	----	----	1162.87	----	----
W02	0.23	1162.27	0.20	1162.11	0.21	1162.18
W03A	0.54	1160.07	0.52	1159.74	0.50	1159.87
W03B	----	----	----	1161.12	----	1161.10
W04A	0.08	1161.82	0.18	1161.52	0.17	1161.62
W04B	----	----	0.04	1161.61	----	----
W05	0.11	1160.63	0.13	1160.35	0.07	1160.67
W06R	0.06	1162.92	0.16	1162.69	0.11	1162.79
W07	----	----	0.52	1162.08	----	----
W08	----	----	----	1174.12	----	----
W09	----	----	----	1161.93	----	----
W10A	----	----	----	1160.86	----	----
W10B	----	----	----	1160.87	----	----
W11	----	----	----	1160.76	----	----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	June 20 2001		July 09 2001		August 14 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	1160.43	-----	-----
W13	-----	1161.05	-----	1161.11	-----	1161.14
W14	-----	-----	-----	1159.48	-----	-----
W16	-----	-----	-----	1161.56	-----	-----
W17	-----	-----	0.20	1160.17	-----	-----
W18	-----	-----	-----	1160.84	-----	-----
W19	-----	-----	-----	1162.21	-----	-----
W21	-----	-----	-----	1160.69	-----	-----
W22	0.05	1160.83	0.05	1160.52	0.05	1160.59
W23	-----	-----	-----	1160.65	-----	-----
W24A	-----	-----	-----	1160.61	-----	-----
W25	-----	1163.11	-----	1162.82	-----	1162.87
W26	-----	-----	-----	1160.80	-----	-----
W27	-----	-----	-----	1161.21	-----	-----
W28	-----	-----	-----	1160.86	-----	-----
W29	-----	-----	-----	1160.75	-----	-----
W30	0.02	1160.54	0.07	1160.20	0.03	1160.52
W31	-----	-----	-----	1160.68	-----	-----
W32	-----	-----	-----	1160.67	-----	-----
W33	-----	-----	0.30	1161.06	-----	-----
W34	0.06	1158.04	0.09	1157.77	0.06	1157.95
W35	0.30	1160.63	0.15	1160.50	0.27	1160.65
W36	-----	1161.66	-----	1161.61	-----	1161.43
W39	-----	-----	-----	1158.38	-----	-----
W40	-----	-----	0.61	1160.29	-----	-----
W41	-----	1161.99	-----	1161.73	-----	1161.63
W42	-----	-----	0.05	1162.14	-----	-----
W44	0.20	1160.76	0.20	1160.51	0.10	1160.83
W45	0.03	1161.27	0.03	1160.96	0.03	1161.42
W46	0.02	1160.40	0.04	1160.01	-----	1160.48
W47	0.16	1156.38	0.45	1155.75	0.17	1156.24
W48	0.14	1156.21	0.40	1155.63	0.25	1155.97
W49	0.17	1157.01	0.20	1156.61	0.09	1156.89
W66	-----	1162.90	-----	1162.73	-----	1162.80
W67	-----	1162.85	-----	1162.68	-----	1162.76
W68A	-----	-----	0.26	1162.53	-----	-----
W68B	-----	-----	-----	1162.68	-----	-----
W69	0.74	1160.86	1.10	1160.35	0.70	1160.82
W70B	-----	-----	-----	1162.50	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

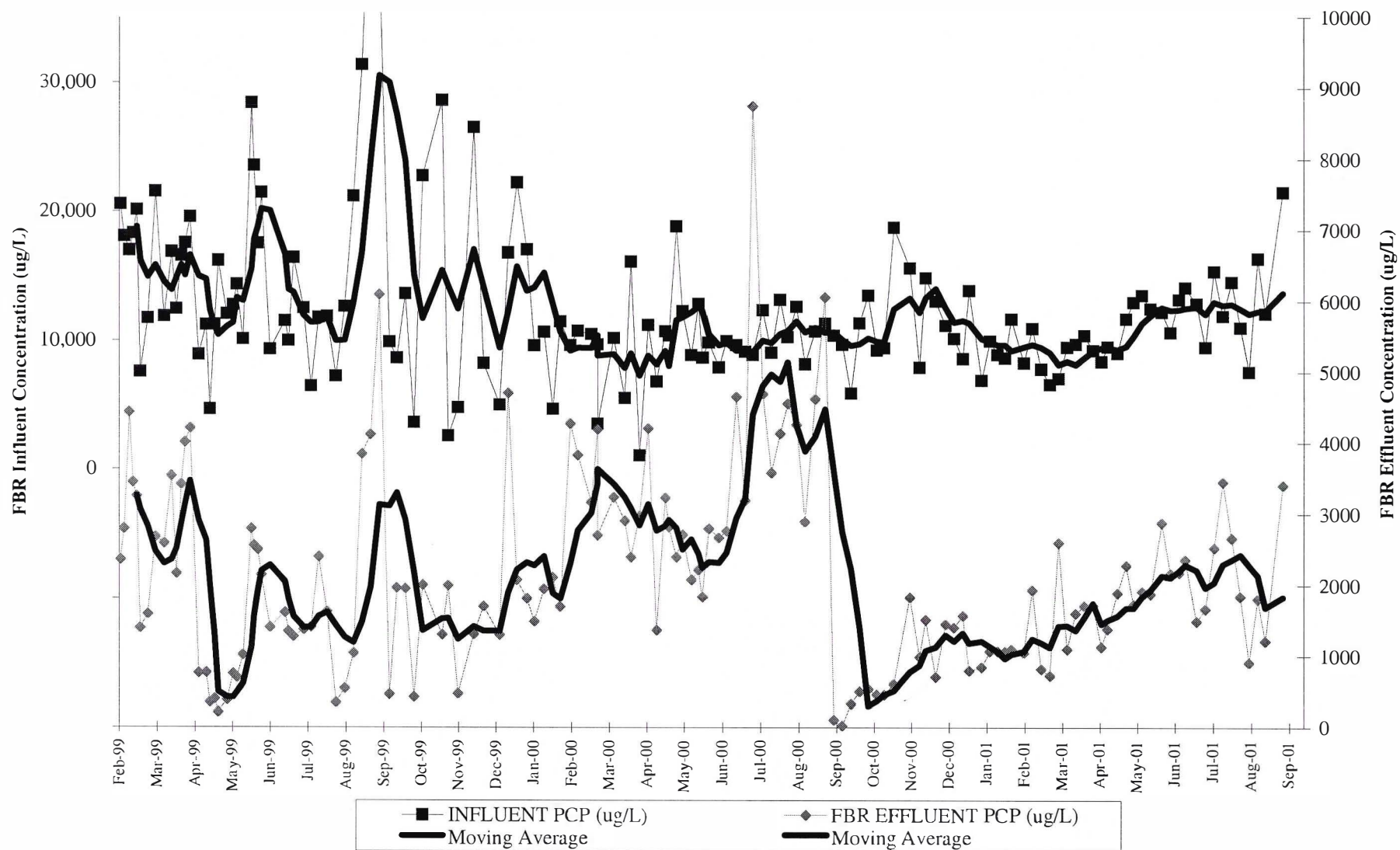
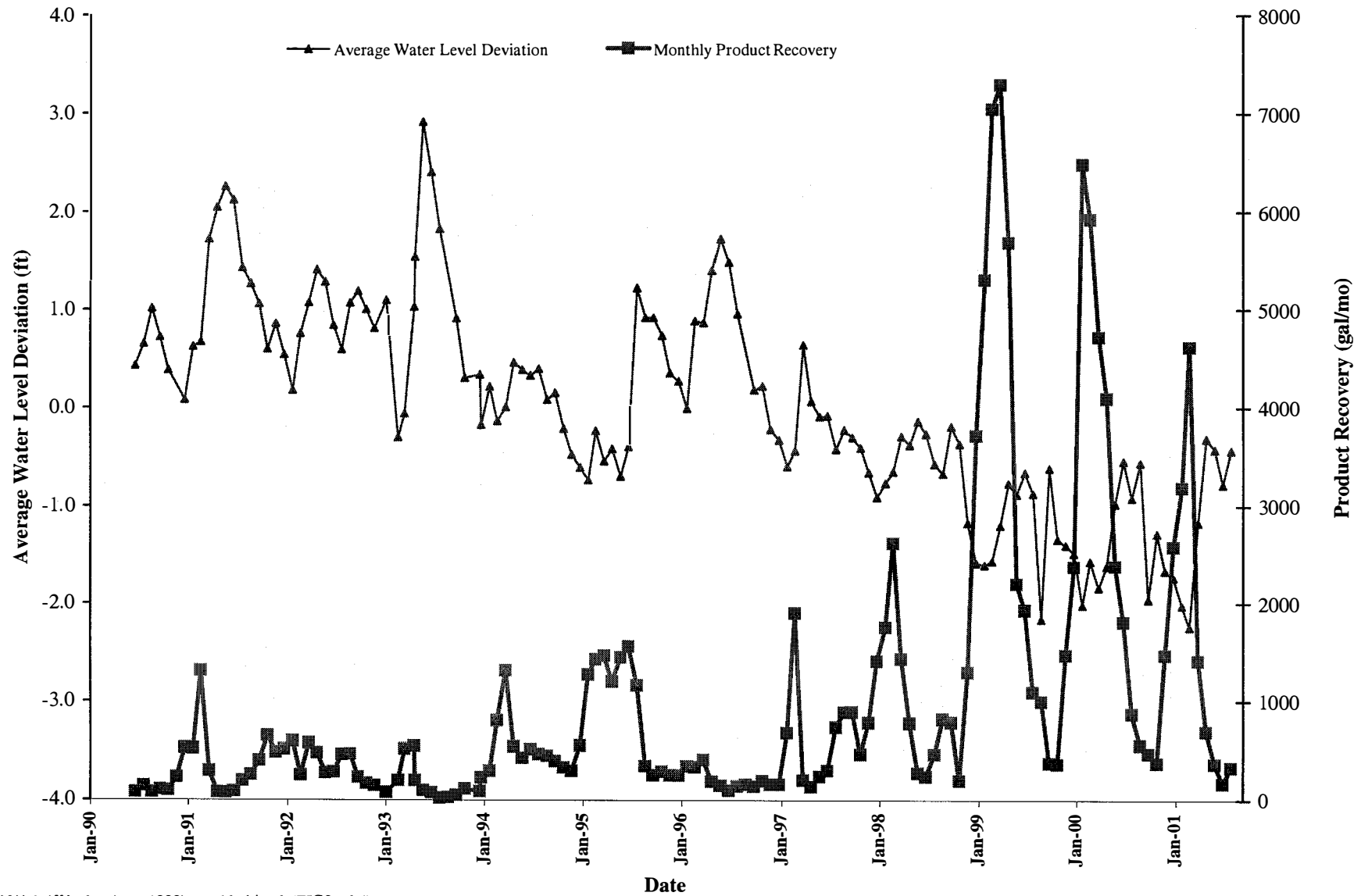
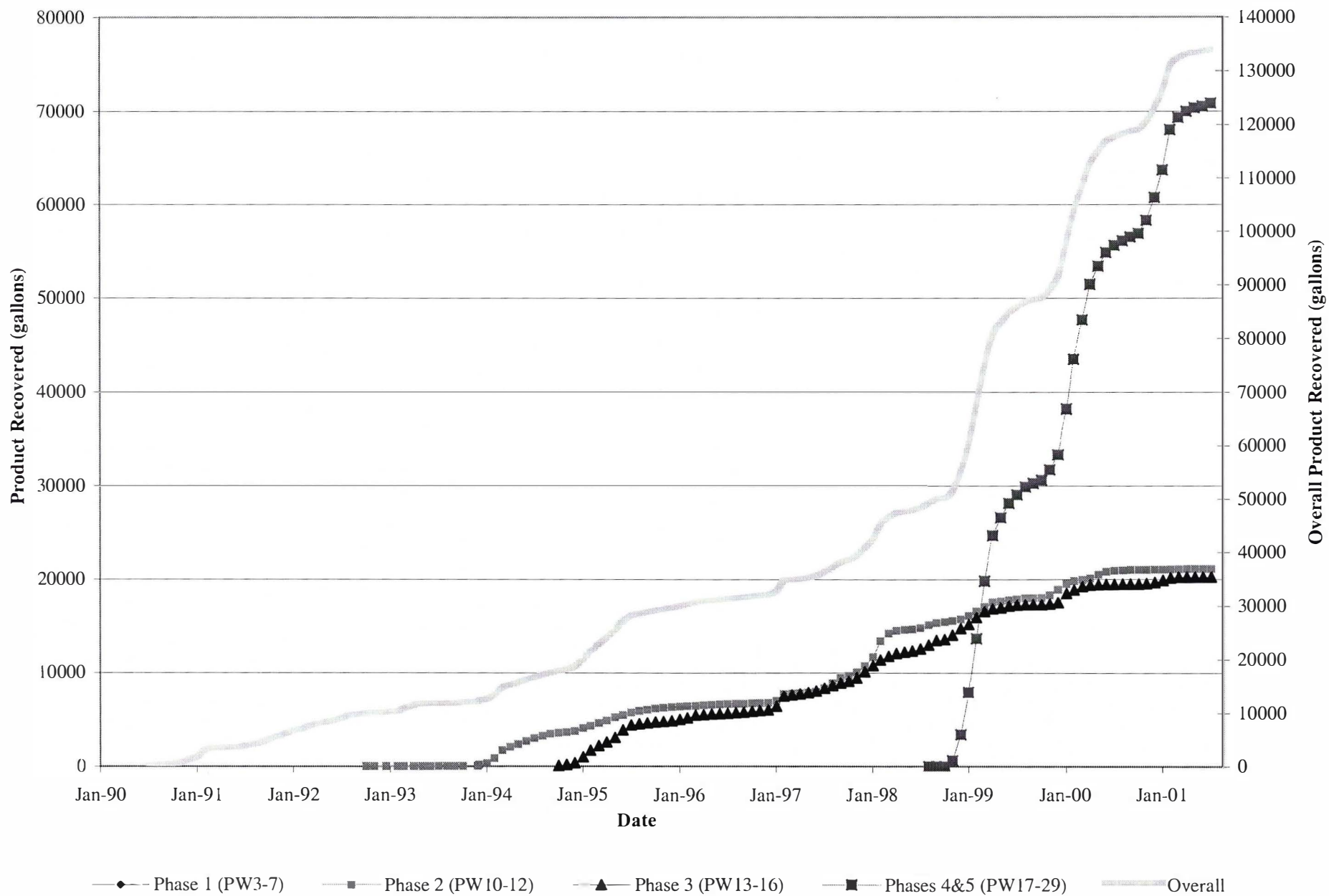


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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 2082336.06160101

FIGURE 3
Cumulative Product Recovery by Phase and Overall





MWH

MONTGOMERY WATSON HARZA

August 20, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED

AUG 21 2001

WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the July Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JULY 2001**

SUMMARY OF JULY 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 4.8 ug/L for the month of July, with a maximum concentration of 10 ug/L from July 10 to July 12.

Laboratory results from the July sampling event are also included in Table 1. The laboratory result for PCP in the system effluent for July was 3.9 ug/L on July 12, 2001. The on-site results for the same period ranged from 6 to 10 ug/L. 2,4,5-Trichlorophenol was also detected in the laboratory system effluent samples. Other phenolic compounds are typical breakdown products of PCP and their presence in the effluent is not unexpected. The total phenol concentration in the effluent was 20 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP (and total phenol) concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 10,962 ug/L to 15,346 ug/L during July (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent remained relatively constant, while effluent PCP concentrations increased slightly during the month. The average PCP removal efficiency for the FBR during July was 80% compared to an average of 84% during the previous year. The activated carbon in the FBR is scheduled to be changed out in early September.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on July 12, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was <0.14 ug/L.

Daily groundwater flow through the treatment system (Table 2) averaged 56 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased during July. Product recovery for July was 168 gallons, down from 369 gallons in June. By comparison, total product recovery was 1812 gallons in July 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for April, May, and July are summarized in Table 4. The semiannual groundwater monitoring event was performed on July 9 through 11.

PHL/phl/DJB
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2082336.06810101-MAD-1

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	07/12/01	7	5				2	
Chemical Oxygen Demand	mg/L	07/12/01	58	38				21	
Chloride	mg/L	07/12/01	190	190				180	
Dissolved Oxygen	mg/L	07/05/01	8.1	3.6	4.6				
	mg/L	07/12/01	8.1	3.2	4.5				
	mg/L	07/19/01	7.7	2.9	4.5				
	mg/L	07/26/01	8.2	3.5	4.5				
Nitrogen, Ammonia	mg/L	07/05/01	3	0.4	0.4				
	mg/L	07/12/01	3	1.5	0.7				
	mg/L	07/19/01	3	0.3	0.3				
	mg/L	07/26/01	2.5	0.4	0.4				
Nitrogen, Nitrate	mg/L	07/05/01	<	<	<				
	mg/L	07/12/01	<	<	<				
	mg/L	07/19/01	<	<	0.1				
	mg/L	07/26/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	07/12/01	0.46	0.95				<	
Nitrogen, Total Kjeldahl	mg/L	07/12/01	1.9	0.77				0.63	
Pentachlorophenol-Screen	µg/L	07/01/01						4	
	µg/L	07/02/01						4	
	µg/L	07/03/01						8	
	µg/L	07/04/01						5	
	µg/L	07/05/01	15346	2526	2102			5	
	µg/L	07/06/01						8	
	µg/L	07/07/01						6	
	µg/L	07/08/01						6	
	µg/L	07/09/01						6	
	µg/L	07/10/01						10	
	µg/L	07/11/01						10	
	µg/L	07/12/01	11875	3446	1366			10	
	µg/L	07/13/01						7	
	µg/L	07/14/01						6	
	µg/L	07/15/01						6	
	µg/L	07/16/01						6	
	µg/L	07/17/01						5	
	µg/L	07/18/01						4	
	µg/L	07/19/01	14502	2664	2004			5	
	µg/L	07/20/01						3	
	µg/L	07/21/01						2	
	µg/L	07/22/01						2	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Pentachlorophenol-Screen	µg/L	07/23/01						2	
	µg/L	07/24/01						3	
	µg/L	07/25/01						3	
	µg/L	07/26/01	10962	1842	795			3	
	µg/L	07/27/01						3	
	µg/L	07/28/01						2	
	µg/L	07/29/01						2	
	µg/L	07/30/01						2	
	µg/L	07/31/01						2	
pH	S.U.	07/05/01	6.2	6.25	6.35				
	S.U.	07/12/01	6.2	6.2	6.35				
	S.U.	07/19/01	6.3	6.3	6.45				
	S.U.	07/26/01	6.2	6.3	6.4				
Phosphorus, Ortho	mg/L	07/12/01	0.17	0.14				<	
Phosphorus, Phosphate	mg/L	07/05/01	0.9	0.7	0.6				
	mg/L	07/12/01	1	0.7	0.7				
	mg/L	07/19/01	1.5	0.9	0.9				
	mg/L	07/26/01	1	0.7	0.7				
Solids, Total Suspended	mg/L	07/12/01	4	10		6	<	<	
Mercury	µg/L	07/12/01	<	0.28				<	
<u>Phenols</u>									
2,3,4,6-Tetrachlorophenol	µg/L	07/12/01	1200	250	140	140	32	<	<
2,4,5-Trichlorophenol	µg/L	07/12/01	<	<	7.5	6.2	3	16	19
2,4,6-Trichlorophenol	µg/L	07/12/01	<	<	<	<	6.9	<	<
2,4-Dichlorophenol	µg/L	07/12/01	<	<	<	<	4.3	<	<
2,4-Dimethylphenol	µg/L	07/12/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	07/12/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	07/12/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	07/12/01	660	9.9	<	<	<	<	<
2-Methylphenol	µg/L	07/12/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	07/12/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	07/12/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	07/12/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	07/12/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	07/12/01	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	07/12/01	8000	2100	1300	1400	310	3.9	4.8
Phenol	µg/L	07/12/01	<	9.7	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
07/01/01	57.43	44.19	51,688,681
07/02/01	57.50	43.98	51,752,008
07/03/01	57.35	43.93	51,815,264
07/04/01	57.43	42.31	51,876,191
07/05/01	56.98	45.03	51,941,030
07/06/01	56.95	44.10	52,004,538
07/07/01	56.82	43.62	52,067,347
07/08/01	56.93	43.66	52,130,220
07/09/01	57.11	43.55	52,192,935
07/10/01	57.01	43.81	52,256,015
07/11/01	56.80	43.82	52,319,116
07/12/01	56.78	43.27	52,381,429
07/13/01	55.87	42.51	52,442,645
07/14/01	55.70	42.38	52,503,669
07/15/01	55.59	42.77	52,565,261
07/16/01	55.57	42.72	52,626,779
07/17/01	55.46	41.49	52,686,524
07/18/01	55.86	44.04	52,749,942
07/19/01	55.95	43.09	52,811,987
07/20/01	55.23	42.79	52,873,601
07/21/01	55.13	42.48	52,934,766
07/22/01	55.03	42.30	52,995,676
07/23/01	54.26	42.15	53,056,370
07/24/01	54.68	41.98	53,116,824
07/25/01	54.41	42.11	53,177,461
07/26/01	53.93	41.82	53,237,686
07/27/01	53.28	41.64	53,297,652
07/28/01	52.96	41.32	53,357,156
07/29/01	52.70	41.18	53,416,454
07/30/01	52.95	40.96	53,475,432
07/31/01	52.78	40.95	53,534,395

Average	55.56	42.77	
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Total ⁽²⁾ :			1,909,351
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
07/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	6.8
07/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	8.5
07/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	6.8
07/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	6.8
07/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	6.8
07/06/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	5.1
07/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
07/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
07/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	6.8
07/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	5.1
07/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
07/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
07/13/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
07/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
07/15/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	3.4
07/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	5.1
07/17/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
07/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4
07/19/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	6.8
07/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	6.8
07/21/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	6.8
07/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	3.4
07/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
07/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
07/25/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4
07/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
07/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	5.1
07/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	6.8
07/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	6.8
07/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	6.8
07/31/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	8.5
Well Total	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	6.8	59.5	5.1	0.0	1.7	0.0	1.7	39.1	37.4	10.2	3.4	0.0	0.0	168.3

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	May 09 2001		June 20 2001		July 09 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.13	-----	1162.51	-----	1162.38
PW02	-----	1162.20	-----	1162.53	-----	1162.39
PW03	-----	1162.22	-----	1162.59	-----	1162.45
PW3S	-----	-----	-----	-----	-----	1159.61
PW04	1.09	1156.07	0.30	1155.70	0.66	1154.29
PW05	0.09	1156.81	0.02	1155.86	0.08	1155.35
PW06	-----	-----	-----	-----	0.42	1161.31
PW07	0.75	1157.32	0.44	1157.73	0.43	1157.46
PW08	-----	-----	-----	-----	0.36	1160.58
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.14	-----	1161.08	-----	1160.83
PW10	-----	1160.89	0.03	1161.00	0.03	1160.77
PW11	0.49	1157.32	1.03	1156.10	0.85	1155.87
PW12	-----	1161.87	-----	1162.32	-----	1162.14
PW13	0.90	1157.77	0.62	1156.05	0.60	1155.16
PW14	-----	-----	-----	-----	-----	1160.34
PW15	0.19	1160.28	0.15	1160.21	0.14	1159.84
PW16	-----	1159.26	-----	1159.08	-----	1158.70
PW17	0.33	1158.45	0.76	1155.31	0.95	1156.91
PW18	0.93	1156.85	0.18	1158.15	0.36	1156.19
PW19	0.26	1158.75	0.50	1158.75	0.55	1158.42
PW20	0.92	1158.52	0.73	1158.64	1.16	1157.92
PW21	0.69	1158.52	0.43	1158.66	0.79	1158.01
PW22	-----	1161.12	-----	1161.15	-----	1160.91
PW23	0.54	1158.31	0.70	1156.49	0.75	1156.65
PW24	0.77	1157.78	1.15	1157.21	0.46	1157.38
PW25	0.44	1157.83	0.79	1157.30	0.36	1157.26
PW26	0.36	1157.87	0.43	1157.53	0.42	1157.16
PW27	0.84	1156.81	0.69	1156.46	0.84	1155.78
PW28	0.19	1160.88	0.19	1161.27	0.24	1161.07
PW29	0.05	1161.03	-----	1161.62	-----	1161.40
P01	0.19	1160.33	0.17	1160.45	0.18	1160.14
OW01	-----	-----	-----	-----	-----	1162.86
W01A	-----	1162.68	-----	1162.85	-----	1162.99
W01B	-----	-----	-----	-----	-----	1162.87
W02	0.19	1161.88	0.23	1162.27	0.20	1162.11
W03A	0.53	1159.32	0.54	1160.07	0.52	1159.74
W03B	-----	1161.37	-----	-----	-----	1161.12
W04A	0.03	1161.88	0.08	1161.82	0.18	1161.52
W04B	-----	-----	-----	-----	0.04	1161.61
W05	0.09	1160.55	0.11	1160.63	0.13	1160.35
W06R	0.06	1162.45	0.06	1162.92	0.16	1162.69
W07	-----	-----	-----	-----	0.52	1162.08
W08	-----	-----	-----	-----	-----	1174.12
W09	-----	-----	-----	-----	-----	1161.93
W10A	-----	-----	-----	-----	-----	1160.86
W10B	-----	-----	-----	-----	-----	1160.87
W11	-----	-----	-----	-----	-----	1160.76

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	May 09 2001		June 20 2001		July 09 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1160.43
W13	-----	1161.51	-----	1161.05	-----	1161.11
W14	-----	-----	-----	-----	-----	1159.48
W16	-----	-----	-----	-----	-----	1161.56
W17	-----	-----	-----	-----	0.20	1160.17
W18	-----	-----	-----	-----	-----	1160.84
W19	-----	-----	-----	-----	-----	1162.21
W21	-----	-----	-----	-----	-----	1160.69
W22	0.06	1160.08	0.05	1160.83	0.05	1160.52
W23	-----	-----	-----	-----	-----	1160.65
W24A	-----	-----	-----	-----	-----	1160.61
W25	-----	1162.71	-----	1163.11	-----	1162.82
W26	-----	-----	-----	-----	-----	1160.80
W27	-----	-----	-----	-----	-----	1161.21
W28	-----	-----	-----	-----	-----	1160.86
W29	-----	-----	-----	-----	-----	1160.75
W30	0.05	1160.43	0.02	1160.54	0.07	1160.20
W31	-----	-----	-----	-----	-----	1160.68
W32	-----	-----	-----	-----	-----	1160.67
W33	-----	-----	-----	-----	0.30	1161.06
W34	0.08	1158.02	0.06	1158.04	0.09	1157.77
W35	0.19	1160.58	0.30	1160.63	0.15	1160.50
W36	-----	1161.20	-----	1161.66	-----	1161.61
W39	-----	-----	-----	-----	-----	1158.38
W40	-----	-----	-----	-----	0.61	1160.29
W41	-----	1162.57	-----	1161.99	-----	1161.73
W42	-----	-----	-----	-----	0.05	1162.14
W44	0.15	1160.76	0.20	1160.76	0.20	1160.51
W45	0.04	1162.08	0.03	1161.27	0.03	1160.96
W46	-----	1160.24	0.02	1160.40	0.04	1160.01
W47	0.07	1156.77	0.16	1156.38	0.45	1155.75
W48	0.11	1156.44	0.14	1156.21	0.40	1155.63
W49	0.02	1157.32	0.17	1157.01	0.20	1156.61
W66	-----	1162.47	-----	1162.90	-----	1162.73
W67	-----	1162.42	-----	1162.85	-----	1162.68
W68A	-----	-----	-----	-----	0.26	1162.53
W68B	-----	-----	-----	-----	-----	1162.68
W69	0.81	1160.70	0.74	1160.86	1.10	1160.35
W70B	-----	-----	-----	-----	-----	1162.50
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

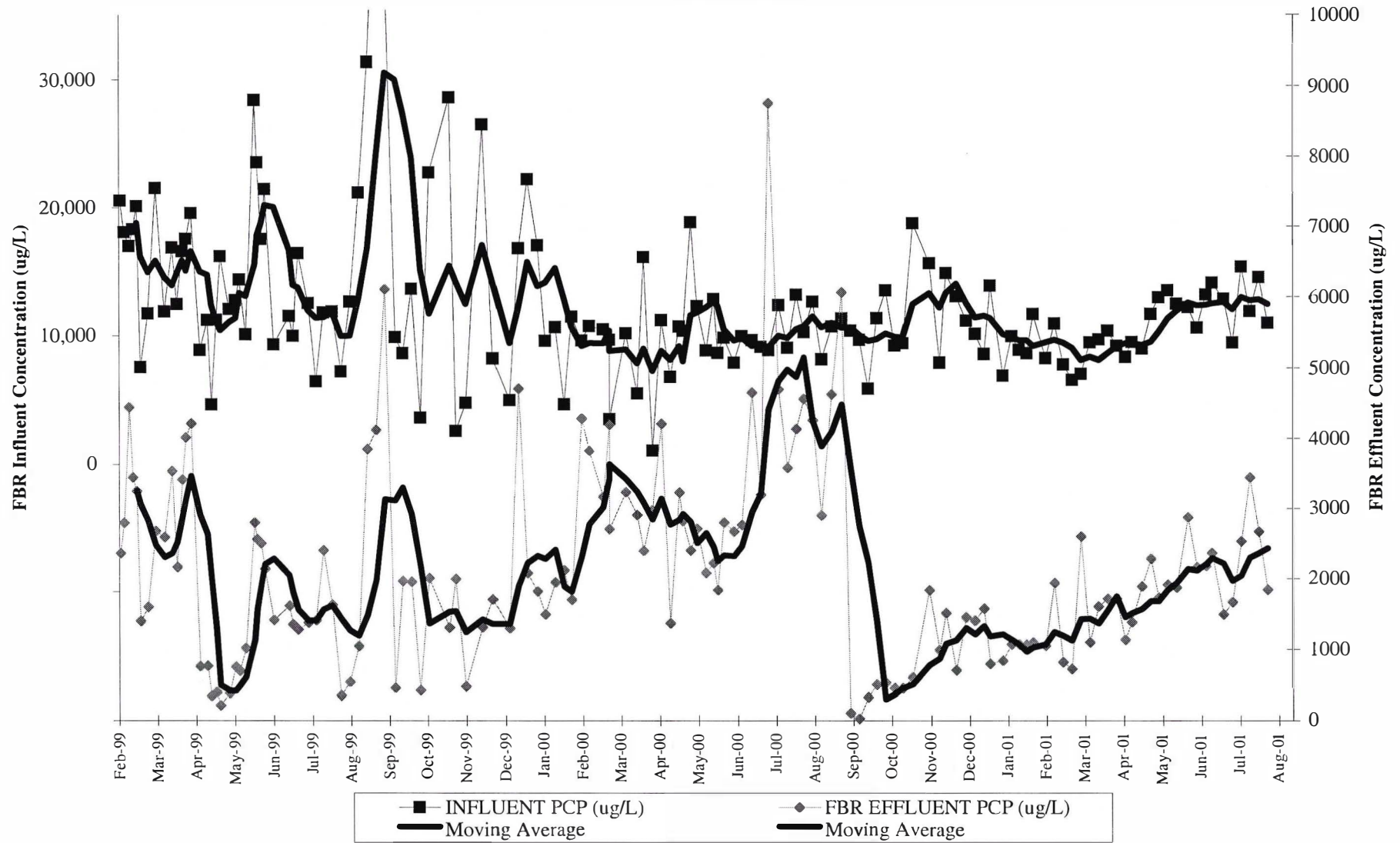
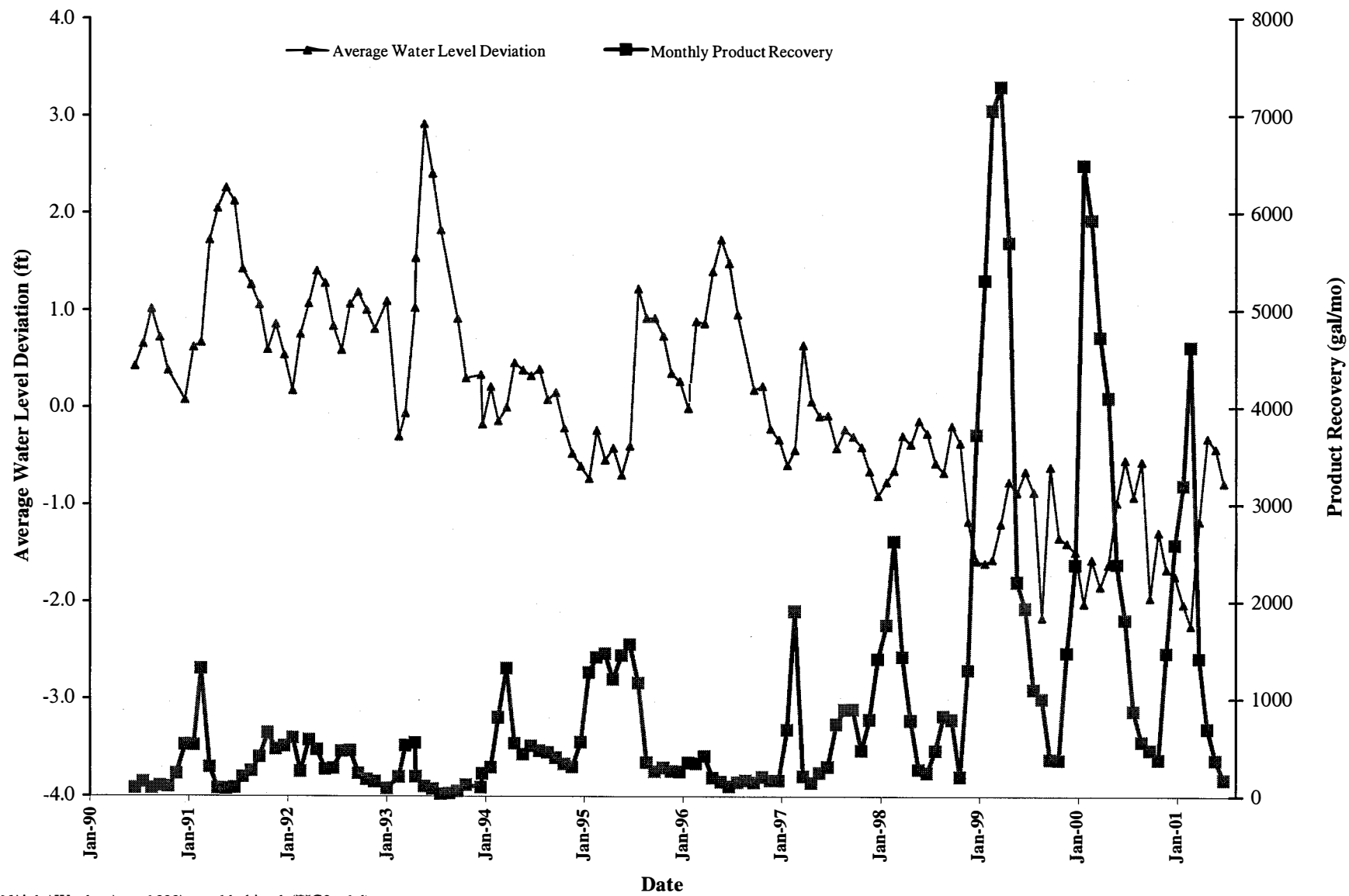
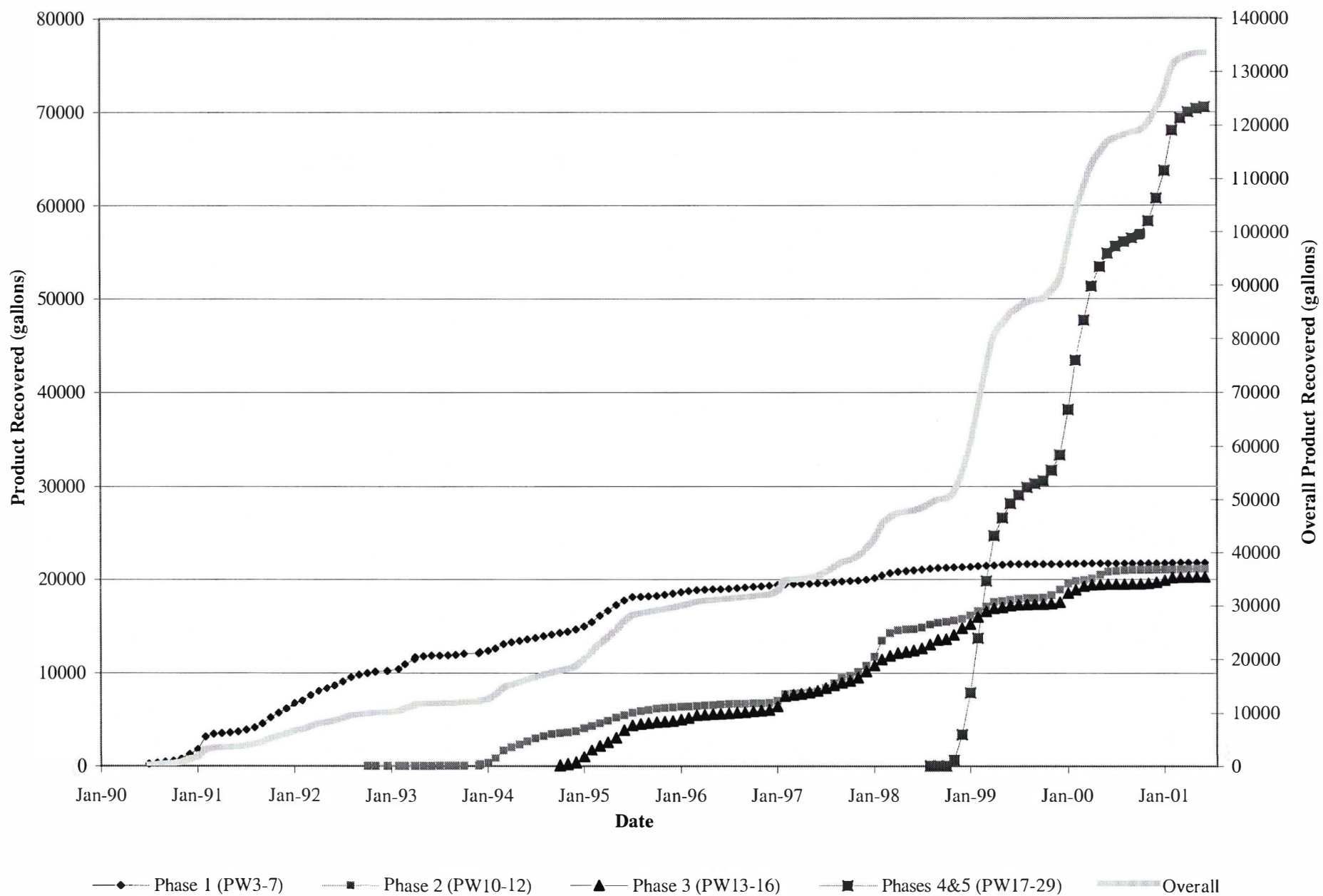


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MWH

MONTGOMERY WATSON HARZA

July 30, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED

JUL 31 2001

WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the June Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JUNE 2001**

SUMMARY OF JUNE 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 5.5 ug/L for the month of June, with a maximum concentration of 15 ug/L on June 19.

Laboratory results from the June sampling event are also included in Table 1. The laboratory result for PCP in the system effluent for June was 3.7 ug/L on June 12, 2001. The on-site results for the same period ranged from 3 to 8 ug/L. 2,4,5-Trichlorophenol and 2,6-Dichlorophenol were also detected in the laboratory system effluent samples. These compounds are typical breakdown products of PCP and their presence in the effluent is not unexpected. The total phenol concentration in the effluent was 65 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP (and total phenol) concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 14,088 ug/L to 9445 ug/L during June (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent and effluent remained relatively constant during the month. The average PCP removal efficiency for the FBR during June was 84% compared to an average of 83% during the previous year.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on June 12, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was <0.14 ug/L.

Daily groundwater flow through the treatment system (Table 2) averaged 56 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site stabilized in June. Product recovery for June was 369 gallons, down from 693 gallons in May. By comparison, total product recovery was 2383 gallons in June 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for April, May, and June are summarized in Table 4. The semiannual groundwater monitoring event is scheduled for July.

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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	06/12/01	23	9				4	
Chemical Oxygen Demand	mg/L	06/12/01	57	47				35	
Chloride	mg/L	06/12/01	210	210				210	
Dissolved Oxygen	mg/L	06/07/01	7.7	3.1	4.1				
	mg/L	06/12/01	7.6	2.9	3.8				
	mg/L	06/21/01	7.7	3.6	3.3				
	mg/L	06/28/01	8	3.6	4.8				
Nitrogen, Ammonia	mg/L	06/07/01	3	0.4	0.4				
	mg/L	06/12/01	2	0.3	0.3				
	mg/L	06/21/01	2	0.3	0.3				
	mg/L	06/28/01	2.5	0.4	0.5				
Nitrogen, Nitrate	mg/L	06/07/01	<	<	<				
	mg/L	06/12/01	<	<	<				
	mg/L	06/21/01	<	<	<				
	mg/L	06/28/01	1	0.6	0.7				
Nitrogen, Nitrate + Nitrite	mg/L	06/12/01	0.18	0.55				<	
Nitrogen, Total Kjeldahl	mg/L	06/12/01	1.8	0.93				0.76	
Pentachlorophenol-Screen	µg/L	06/01/01						4	
	µg/L	06/02/01						2	
	µg/L	06/03/01						2	
	µg/L	06/04/01						2	
	µg/L	06/05/01						4	
	µg/L	06/06/01						4	
	µg/L	06/07/01	13152	2177	1609			5	
	µg/L	06/08/01						6	
	µg/L	06/09/01						3	
	µg/L	06/10/01						3	
	µg/L	06/11/01						3	
	µg/L	06/12/01	14088	2359	1692			4	
	µg/L	06/13/01						8	
	µg/L	06/14/01						8	
	µg/L	06/15/01						11	
	µg/L	06/16/01						11	
	µg/L	06/17/01						11	
	µg/L	06/18/01						11	
	µg/L	06/19/01						15	
	µg/L	06/20/01						6	
	µg/L	06/21/01	12837	1492	1643			8	
	µg/L	06/22/01						5	
	µg/L	06/23/01						3	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	06/24/01						3	
	µg/L	06/25/01						3	
	µg/L	06/26/01						3	
	µg/L	06/27/01						3	
	µg/L	06/28/01	9445	1664	1015			4	
	µg/L	06/29/01						5	
	µg/L	06/30/01						4	
pH	S.U.	06/07/01	6.2	6.25	6.35				
	S.U.	06/12/01	6.2	6.25	6.3				
	S.U.	06/21/01	6.15	6.25	6.25				
	S.U.	06/28/01	6.2	6.2	6.3				
Phosphorus, Ortho	mg/L	06/12/01	0.42	0.32				0.37	
Phosphorus, Phosphate	mg/L	06/07/01	1.2	0.8	0.8				
	mg/L	06/12/01	1.3	0.8	0.8				
	mg/L	06/21/01	1	0.4	0.4				
	mg/L	06/28/01	<	<	<				
Solids, Total Suspended	mg/L	06/12/01	12	17		11	8	12	
Mercury	ug/L	06/12/01	0.46	0.41				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	06/12/01	<	<	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	06/12/01	<	<	<	<	<	48	54
2,4,6-Trichlorophenol	µg/L	06/12/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	06/12/01	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	06/12/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	06/12/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	06/12/01	<	<	<	<	<	13	18
2-Chlorophenol	µg/L	06/12/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	06/12/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	06/12/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	06/12/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	06/12/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	06/12/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	06/12/01	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	06/12/01	10000	1800	1100	1200	600	3.7	3.4
Phenol	µg/L	06/12/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
06/01/01	55.98	42.79	49,836,974
06/02/01	55.19	41.82	49,897,190
06/03/01	55.13	41.64	49,957,158
06/04/01	54.46	41.85	50,017,419
06/05/01	55.10	42.45	50,078,554
06/06/01	55.42	42.92	50,140,361
06/07/01	55.31	42.56	50,201,653
06/08/01	54.75	42.13	50,262,322
06/09/01	55.67	42.28	50,323,201
06/10/01	55.62	42.25	50,384,034
06/11/01	55.38	42.24	50,444,864
06/12/01	55.30	42.89	50,506,621
06/13/01	55.37	42.65	50,568,035
06/14/01	55.15	42.51	50,629,252
06/15/01	55.14	41.89	50,689,573
06/16/01	54.73	41.53	50,749,375
06/17/01	54.50	41.33	50,808,885
06/18/01	54.37	41.17	50,868,176
06/19/01	56.07	41.50	50,927,930
06/20/01	57.93	43.73	50,990,900
06/21/01	58.89	45.74	51,056,762
06/22/01	58.67	45.11	51,121,726
06/23/01	58.28	45.12	51,186,697
06/24/01	57.82	44.38	51,250,605
06/25/01	57.86	43.72	51,313,561
06/26/01	57.78	43.67	51,376,447
06/27/01	57.15	43.18	51,438,624
06/28/01	56.58	43.14	51,500,742
06/29/01	56.71	42.74	51,562,286
06/30/01	57.36	43.58	51,625,044
Average	56.12	42.82	

Total ⁽²⁾: 1,849,693

Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
06/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	12.0
06/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.6	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	15.5
06/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	18.9
06/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	15.5	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	22.3
06/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	15.5	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	24.0
06/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	20.6
06/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	12.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	20.6
06/08/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	18.9
06/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	10.3	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	18.9
06/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	15.5
06/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	13.8
06/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.6	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	15.5
06/13/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	15.5
06/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	1.7	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	13.8
06/15/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	13.7
06/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	1.7	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	13.7
06/17/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	12.0
06/18/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	10.3
06/19/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	10.3
06/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	8.5
06/21/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	6.8
06/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
06/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
06/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
06/25/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
06/26/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.8
06/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.1
06/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	5.1
06/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	5.1
06/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	5.1
Well Total	0.0	0.0	0.0	0.0	0.0	6.8	0.0	1.7	0.0	0.0	10.2	216.5	3.4	6.8	0.0	0.0	0.0	99.5	10.2	13.6	0.0	0.0	0.0	368.7

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:
PW04, PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW21, PW22, PW23, PW27, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	April 12 2001		May 09 2001		June 20 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.06	1161.28	-----	1162.13	-----	1162.51
PW02	-----	1161.32	-----	1162.20	-----	1162.53
PW03	-----	1161.64	-----	1162.22	-----	1162.59
PW3S	0.02	1158.96	-----	-----	-----	-----
PW04	0.63	1155.56	1.09	1156.07	0.30	1155.70
PW05	0.16	1156.59	0.09	1156.81	0.02	1155.86
PW06	0.39	1160.71	-----	-----	-----	-----
PW07	0.59	1156.58	0.75	1157.32	0.44	1157.73
PW08	0.31	1159.69	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.71	-----	1161.14	-----	1161.08
PW10	0.03	1160.23	-----	1160.89	0.03	1161.00
PW11	1.02	1155.44	0.49	1157.32	1.03	1156.10
PW12	-----	1161.39	-----	1161.87	-----	1162.32
PW13	0.23	1157.72	0.90	1157.77	0.62	1156.05
PW14	-----	1159.96	-----	-----	-----	-----
PW15	0.17	1159.58	0.19	1160.28	0.15	1160.21
PW16	-----	1158.48	-----	1159.26	-----	1159.08
PW17	0.07	1158.01	0.33	1158.45	0.76	1155.31
PW18	0.09	1157.97	0.93	1156.85	0.18	1158.15
PW19	0.19	1158.19	0.26	1158.75	0.50	1158.75
PW20	1.23	1157.47	0.92	1158.52	0.73	1158.64
PW21	0.76	1157.63	0.69	1158.52	0.43	1158.66
PW22	-----	1160.66	-----	1161.12	-----	1161.15
PW23	0.67	1156.27	0.54	1158.31	0.70	1156.49
PW24	0.08	1157.88	0.77	1157.78	1.15	1157.21
PW25	0.30	1157.39	0.44	1157.83	0.79	1157.30
PW26	0.10	1157.17	0.36	1157.87	0.43	1157.53
PW27	0.37	1156.97	0.84	1156.81	0.69	1156.46
PW28	-----	1160.59	0.19	1160.88	0.19	1161.27
PW29	-----	1160.75	0.05	1161.03	-----	1161.62
P01	0.21	1159.88	0.19	1160.33	0.17	1160.45
OW01	-----	1161.83	-----	-----	-----	-----
W01A	-----	1161.83	-----	1162.68	-----	1162.85
W01B	-----	1161.86	-----	-----	-----	-----
W02	0.17	1161.45	0.19	1161.88	0.23	1162.27
W03A	0.52	1159.45	0.53	1159.32	0.54	1160.07
W03B	-----	1161.34	-----	1161.37	-----	-----
W04A	0.08	1160.93	0.03	1161.88	0.08	1161.82
W04B	0.20	1160.80	-----	-----	-----	-----
W05	0.09	1160.01	0.09	1160.55	0.11	1160.63
W06R	0.08	1161.73	0.06	1162.45	0.06	1162.92
W07	0.05	1161.36	-----	-----	-----	-----
W08	-----	1168.60	-----	-----	-----	-----
W09	-----	1163.12	-----	-----	-----	-----
W10A	-----	1162.76	-----	-----	-----	-----
W10B	-----	1162.32	-----	-----	-----	-----
W11	-----	1161.68	-----	-----	-----	-----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	April 12 2001		May 09 2001		June 20 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1161.17	-----	-----	-----	-----
W13	-----	1162.57	-----	1161.51	-----	1161.05
W14	-----	1160.38	-----	-----	-----	-----
W16	-----	1161.81	-----	-----	-----	-----
W17	0.18	1160.14	-----	-----	-----	-----
W18	-----	1163.45	-----	-----	-----	-----
W19	-----	1161.40	-----	-----	-----	-----
W21	-----	1162.06	-----	-----	-----	-----
W22	0.09	1160.40	0.06	1160.08	0.05	1160.83
W23	-----	1161.53	-----	-----	-----	-----
W24A	-----	1161.51	-----	-----	-----	-----
W25	-----	1161.88	-----	1162.71	-----	1163.11
W26	-----	1161.94	-----	-----	-----	-----
W27	-----	1161.56	-----	-----	-----	-----
W28	-----	1164.04	-----	-----	-----	-----
W29	-----	1162.65	-----	-----	-----	-----
W30	0.22	1159.77	0.05	1160.43	0.02	1160.54
W31	-----	1163.01	-----	-----	-----	-----
W32	-----	1163.14	-----	-----	-----	-----
W33	0.20	1160.51	-----	-----	-----	-----
W34	0.19	1157.18	0.08	1158.02	0.06	1158.04
W35	0.31	1159.51	0.19	1160.58	0.30	1160.63
W36	-----	1160.39	-----	1161.20	-----	1161.66
W39	-----	1160.89	-----	-----	-----	-----
W40	0.49	1160.46	-----	-----	-----	-----
W41	-----	1162.29	-----	1162.57	-----	1161.99
W42	-----	1161.21	-----	-----	-----	-----
W44	0.26	1160.14	0.15	1160.76	0.20	1160.76
W45	0.05	1160.89	0.04	1162.08	0.03	1161.27
W46	-----	1159.98	-----	1160.24	0.02	1160.40
W47	0.61	1155.28	0.07	1156.77	0.16	1156.38
W48	0.37	1155.35	0.11	1156.44	0.14	1156.21
W49	0.31	1156.04	0.02	1157.32	0.17	1157.01
W66	-----	1161.88	-----	1162.47	-----	1162.90
W67	-----	1161.86	-----	1162.42	-----	1162.85
W68A	0.43	1161.41	-----	-----	-----	-----
W68B	-----	1161.88	-----	-----	-----	-----
W69	0.66	1159.85	0.81	1160.70	0.74	1160.86
W70B	-----	1161.45	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

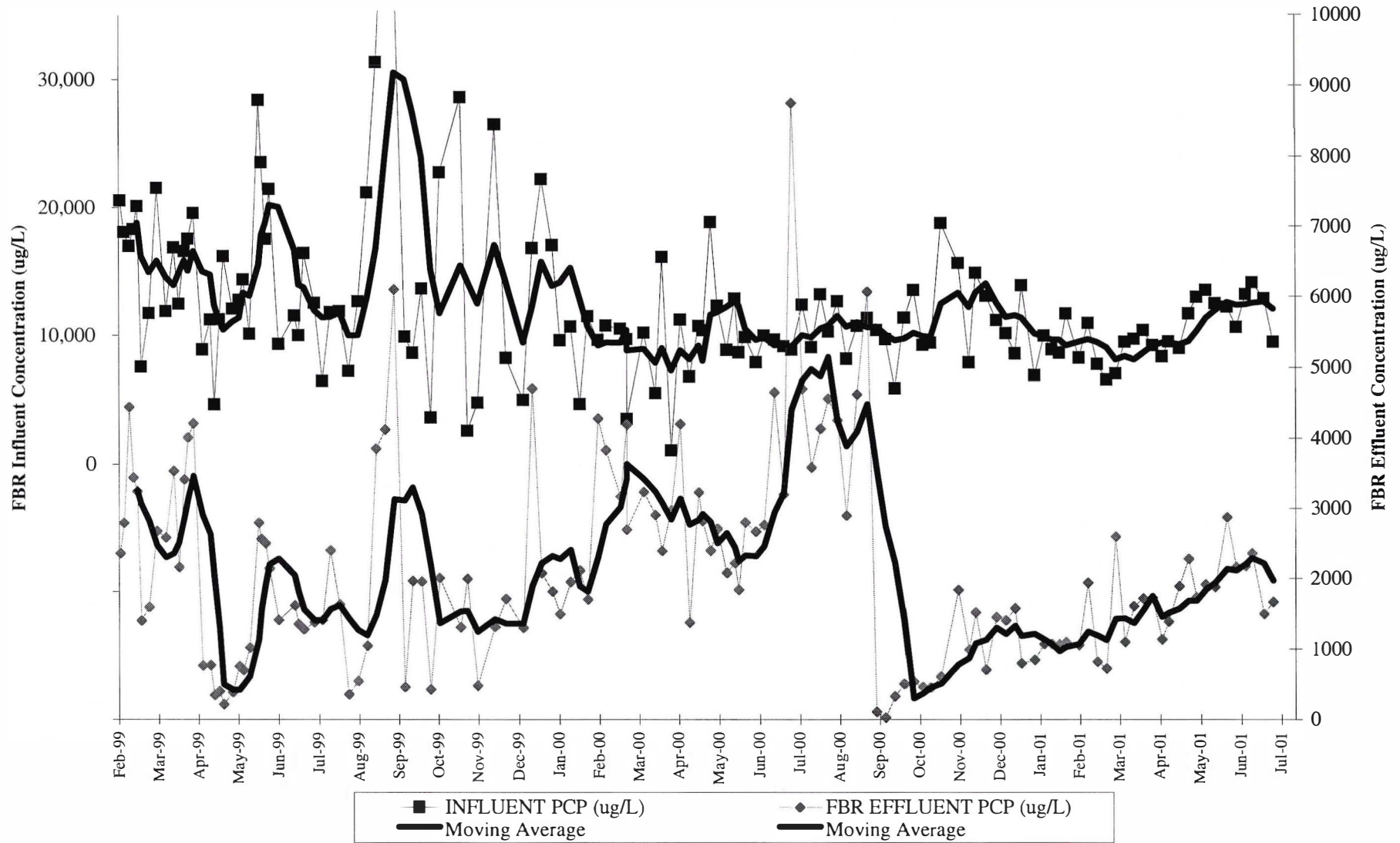
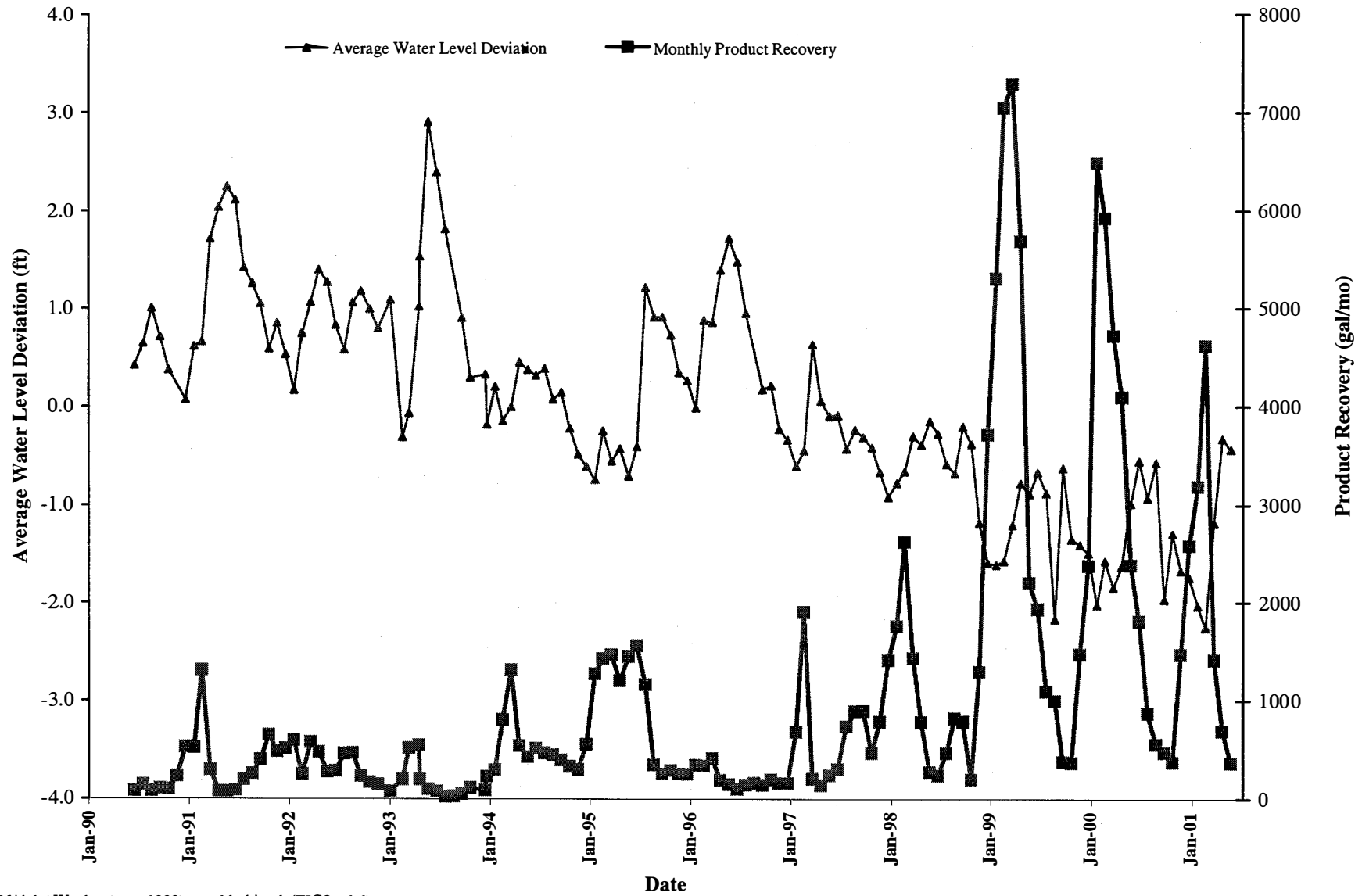
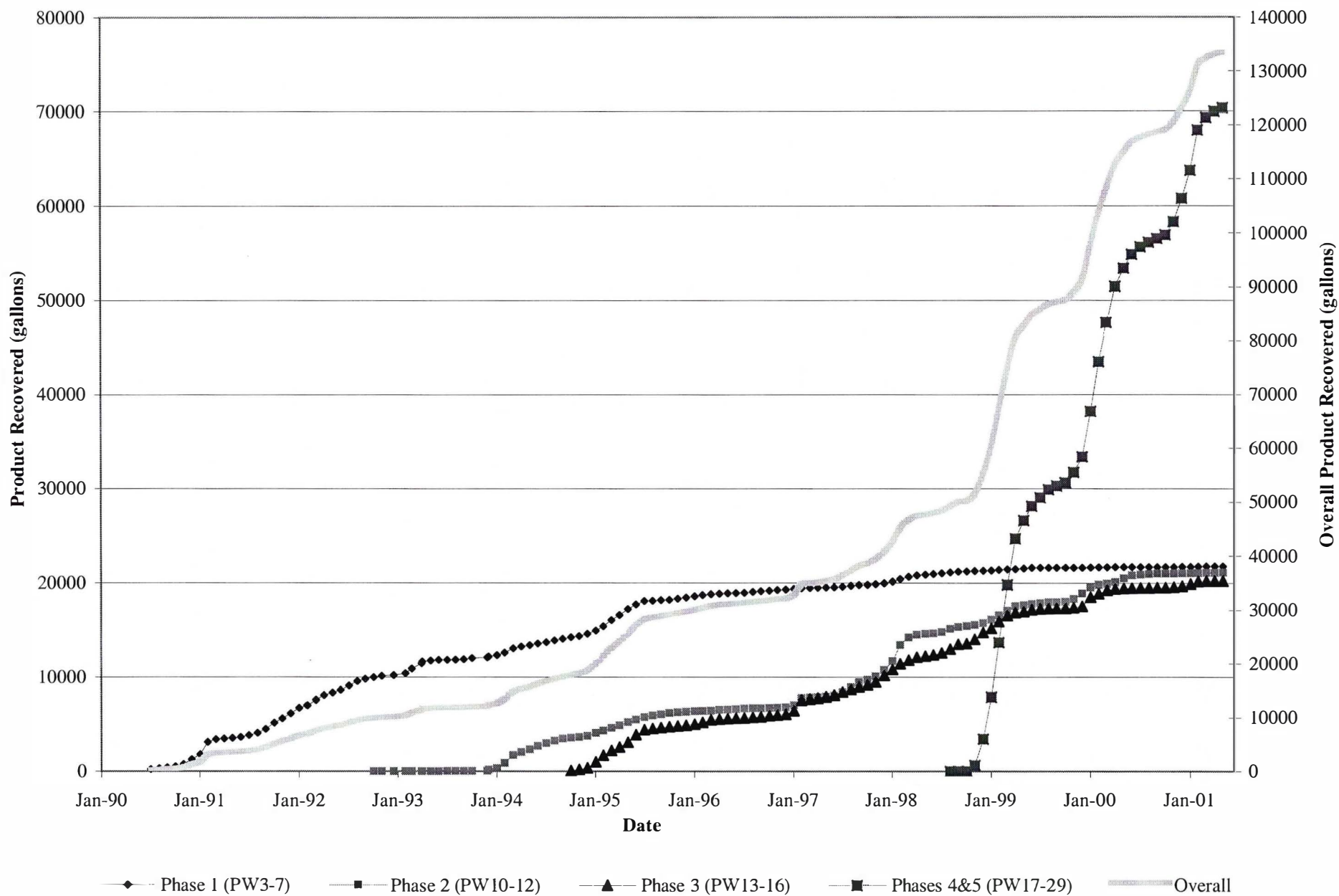


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MONTGOMERY WATSON

June 21, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED
JUN 25 2001
WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the May Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
MAY 2001**

SUMMARY OF MAY 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 3 ug/L for the month of May, with a maximum concentration of 4 ug/L during several periods in the month.

Laboratory results from the May sampling event are also included in Table 1. The laboratory result for PCP in the system effluent for May was 3 ug/L on May 22, 2001. The on-site results for the same period ranged from 3 to 4 ug/L. Both laboratory and on-site screening results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 10,559 ug/L to 13,485 ug/L during May (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent and effluent increased slightly during the month. The average PCP removal efficiency for the FBR during May was 83% compared to an average of 80% during the previous year.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on May 15, 2001 are included in Table 1. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was <0.14 ug/L.

Daily groundwater flow through the treatment system (Table 2) averaged 55 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased again in May, following heavy spring rains. As a result, product recovery for May was 693 gallons, down from 1414 gallons in April. By comparison, total product recovery was 4094 gallons in May 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

PHL/phl/DJB

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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	05/15/01	10	7				<	
Chemical Oxygen Demand	mg/L	05/15/01	110	65				31	
Chloride	mg/L	05/15/01	220	220				240	
Dissolved Oxygen	mg/L	05/01/01	7.5	2.6	2.9				
	mg/L	05/08/01	7.5	3.4	3.9				
	mg/L	05/15/01	7.5	2.9	3.7				
	mg/L	05/24/01	7.5	2.9	4.5				
	mg/L	05/31/01	7.5	2.9	4				
Nitrogen, Ammonia	mg/L	05/01/01	3	0.6	0.6				
	mg/L	05/08/01	3	0.5	0.5				
	mg/L	05/15/01	3	0.6	0.6				
	mg/L	05/24/01	3	0.6	0.6				
	mg/L	05/31/01	3	0.3	0.3				
Nitrogen, Nitrate	mg/L	05/01/01	<	<	<				
	mg/L	05/08/01	<	<	0.1				
	mg/L	05/15/01	<	<	<				
	mg/L	05/24/01	<	<	<				
	mg/L	05/31/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	05/15/01	0.46	0.89				<	
Nitrogen, Total Kjeldahl	mg/L	05/15/01	1.6	0.79				0.53	
Pentachlorophenol-Screen	µg/L	05/01/01	12953	1733	1244			2	
	µg/L	05/02/01						3	
	µg/L	05/03/01						3	
	µg/L	05/04/01						4	
	µg/L	05/05/01						3	
	µg/L	05/06/01						3	
	µg/L	05/07/01						3	
	µg/L	05/08/01	13485	1915	1654			2	
	µg/L	05/09/01						3	
	µg/L	05/10/01						3	
	µg/L	05/11/01						3	
	µg/L	05/12/01						3	
	µg/L	05/13/01						3	
	µg/L	05/14/01						3	
	µg/L	05/15/01	12437	1875	1450			4	
	µg/L	05/16/01						3	
	µg/L	05/17/01						4	
	µg/L	05/18/01						3	
	µg/L	05/19/01						2	
	µg/L	05/20/01						2	

TABLE 1
Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Pentachlorophenol-Screen	µg/L	05/21/01						2	
	µg/L	05/22/01						2	
	µg/L	05/23/01						2	
	µg/L	05/24/01	12180	2875	2655			3	
	µg/L	05/25/01						1	
	µg/L	05/26/01						2	
	µg/L	05/27/01						2	
	µg/L	05/28/01						2	
	µg/L	05/29/01						4	
	µg/L	05/30/01						4	
	µg/L	05/31/01	10599	2163	1867			4	
pH	S.U.	05/01/01	6.15	6.2	6.25				
	S.U.	05/08/01	6.2	6.25	6.3				
	S.U.	05/15/01	6.3	6.3	6.4				
	S.U.	05/24/01	6.2	6.25	6.35				
	S.U.	05/31/01	6.2	6.2	6.3				
Phosphorus, Ortho	mg/L	05/15/01	0.21	0.14				0.21	
Phosphorus, Phosphate	mg/L	05/01/01	1	0.7	0.7				
	mg/L	05/08/01	1.5	0.8	0.8				
	mg/L	05/15/01	1.5	0.9	0.9				
	mg/L	05/24/01	1	0.6	0.6				
	mg/L	05/31/01	0.8	0.4	0.4				
Solids, Total Suspended	mg/L	05/15/01	5	6		4	<	<	
Mercury	µg/L	05/15/01	0.35	0.28				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	05/15/01	<	<	170	<	<	<	<
2,4,5-Trichlorophenol	µg/L	05/15/01	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	05/15/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	05/15/01	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	05/15/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	05/15/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	05/15/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	05/15/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	05/15/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	05/15/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	05/15/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	05/15/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	05/15/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	05/15/01	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	05/15/01	11000	2600	1800	1500	210	3.1	3
Phenol	µg/L	05/15/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
05/01/01	55.13	42.64	47,939,267
05/02/01	54.72	42.29	48,000,171
05/03/01	54.30	40.92	48,059,095
05/04/01	55.37	43.48	48,121,699
05/05/01	55.99	42.89	48,183,461
05/06/01	55.59	42.76	48,245,036
05/07/01	55.46	41.91	48,305,390
05/08/01	55.24	42.70	48,366,877
05/09/01	55.14	42.06	48,427,444
05/10/01	55.14	42.15	48,488,138
05/11/01	55.15	41.94	48,548,537
05/12/01	55.31	42.05	48,609,089
05/13/01	55.26	42.12	48,669,741
05/14/01	55.37	42.25	48,730,588
05/15/01	55.12	42.37	48,791,601
05/16/01	55.19	42.74	48,853,151
05/17/01	55.47	42.85	48,914,862
05/18/01	56.20	43.50	48,977,507
05/19/01	56.14	43.21	49,039,723
05/20/01	56.18	43.26	49,102,022
05/21/01	55.74	43.13	49,164,130
05/22/01	55.62	42.89	49,225,894
05/23/01	55.89	42.72	49,287,415
05/24/01	55.52	41.79	49,347,598
05/25/01	55.32	42.52	49,408,827
05/26/01	55.56	42.53	49,470,076
05/27/01	55.67	41.98	49,530,523
05/28/01	55.38	42.47	49,591,673
05/29/01	55.23	42.11	49,652,314
05/30/01	55.18	42.40	49,713,363
05/31/01	56.11	43.05	49,775,351

Average	55.44	42.51	
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Total ⁽²⁾ :			1,897,487
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
05/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	22.3
05/02/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	25.8
05/03/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	25.7
05/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	22.3
05/05/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	24.0
05/06/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	22.3
05/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	1.7	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	25.7
05/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	18.9
05/09/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	25.7
05/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	22.3
05/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	24.0
05/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	22.3
05/13/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	25.7
05/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	24.0
05/15/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	25.7
05/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	1.7	0.0	0.0	24.0
05/17/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	24.0
05/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	1.7	0.0	0.0	24.0
05/19/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	1.7	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	25.7
05/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	1.7	0.0	1.7	3.4	0.0	1.7	0.0	0.0	0.0	25.7
05/21/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	20.6
05/22/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	20.6
05/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	18.9
05/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	1.7	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	18.8
05/25/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	18.8
05/26/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	22.3
05/27/01	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	24.0
05/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	24.0
05/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	17.2
05/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	13.7
05/31/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	13.7
Well Total	5.1	0.0	0.0	0.0	0.0	18.7	0.0	1.7	0.0	0.0	1.7	498.8	5.1	25.5	1.7	0.0	1.7	98.7	0.0	30.6	3.4	0.0	0.0	692.7

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:
PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW22, PW25, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	March 19 2001		April 12 2001		May 09 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1160.90	0.06	1161.28	-----	1162.13
PW02	-----	Frozen	-----	1161.32	-----	1162.20
PW03	-----	1161.14	-----	1161.64	-----	1162.22
PW3S	-----	-----	0.02	1158.96	-----	-----
PW04	0.54	1154.38	0.63	1155.56	1.09	1156.07
PW05	0.78	1155.53	0.16	1156.59	0.09	1156.81
PW06	-----	-----	0.39	1160.71	-----	-----
PW07	0.77	1155.30	0.59	1156.58	0.75	1157.32
PW08	-----	-----	0.31	1159.69	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1159.39	-----	1160.71	-----	1161.14
PW10	0.02	1159.42	0.03	1160.23	-----	1160.89
PW11	0.71	1154.05	1.02	1155.44	0.49	1157.32
PW12	-----	1160.72	-----	1161.39	-----	1161.87
PW13	0.46	1157.40	0.23	1157.72	0.90	1157.77
PW14	-----	-----	-----	1159.96	-----	-----
PW15	0.32	1158.48	0.17	1159.58	0.19	1160.28
PW16	-----	1157.84	-----	1158.48	-----	1159.26
PW17	0.98	1156.47	0.07	1158.01	0.33	1158.45
PW18	0.46	1156.30	0.09	1157.97	0.93	1156.85
PW19	0.26	1157.01	0.19	1158.19	0.26	1158.75
PW20	0.58	1156.84	1.23	1157.47	0.92	1158.52
PW21	1.03	1156.52	0.76	1157.63	0.69	1158.52
PW22	-----	1159.60	-----	1160.66	-----	1161.12
PW23	0.64	1156.30	0.67	1156.27	0.54	1158.31
PW24	0.54	1156.24	0.08	1157.88	0.77	1157.78
PW25	0.76	1155.92	0.30	1157.39	0.44	1157.83
PW26	0.73	1155.13	0.10	1157.17	0.36	1157.87
PW27	0.85	1155.32	0.37	1156.97	0.84	1156.81
PW28	0.45	1159.59	-----	1160.59	0.19	1160.88
PW29	0.22	1157.94	-----	1160.75	0.05	1161.03
P01	0.24	1158.78	0.21	1159.88	0.19	1160.33
OW01	-----	-----	-----	1161.83	-----	-----
W01A	-----	1161.47	-----	1161.83	-----	1162.68
W01B	-----	-----	-----	1161.86	-----	-----
W02	0.74	1160.32	0.17	1161.45	0.19	1161.88
W03A	0.62	1158.63	0.52	1159.45	0.53	1159.32
W03B	-----	1160.46	-----	1161.34	-----	1161.37
W04A	0.42	1160.03	0.08	1160.93	0.03	1161.88
W04B	-----	-----	0.20	1160.80	-----	-----
W05	0.40	1158.73	0.09	1160.01	0.09	1160.55
W06R	0.28	1161.10	0.08	1161.73	0.06	1162.45
W07	-----	-----	0.05	1161.36	-----	-----
W08	-----	-----	-----	1168.60	-----	-----
W09	-----	-----	-----	1163.12	-----	-----
W10A	-----	-----	-----	1162.76	-----	-----
W10B	-----	-----	-----	1162.32	-----	-----
W11	-----	-----	-----	1161.68	-----	-----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	March 19 2001		April 12 2001		May 09 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	----	----	----	1161.17	----	----
W13	----	1160.68	----	1162.57	----	1161.51
W14	----	----	----	1160.38	----	----
W16	----	----	----	1161.81	----	----
W17	----	----	0.18	1160.14	----	----
W18	----	----	----	1163.45	----	----
W19	----	----	----	1161.40	----	----
W21	----	----	----	1162.06	----	----
W22	0.09	1159.61	0.09	1160.40	0.06	1160.08
W23	----	----	----	1161.53	----	----
W24A	----	----	----	1161.51	----	----
W25	----	1161.46	----	1161.88	----	1162.71
W26	----	----	----	1161.94	----	----
W27	----	----	----	1161.56	----	----
W28	----	----	----	1164.04	----	----
W29	----	----	----	1162.65	----	----
W30	0.50	1158.49	0.22	1159.77	0.05	1160.43
W31	----	----	----	1163.01	----	----
W32	----	----	----	1163.14	----	----
W33	----	----	0.20	1160.51	----	----
W34	0.12	1156.53	0.19	1157.18	0.08	1158.02
W35	0.28	1159.02	0.31	1159.51	0.19	1160.58
W36	----	1159.95	----	1160.39	----	1161.20
W39	----	----	----	1160.89	----	----
W40	----	----	0.49	1160.46	----	----
W41	----	1160.67	----	1162.29	----	1162.57
W42	----	----	----	1161.21	----	----
W44	0.36	1159.06	0.26	1160.14	0.15	1160.76
W45	0.07	1159.31	0.05	1160.89	0.04	1162.08
W46	0.21	1158.62	----	1159.98	----	1160.24
W47	0.66	1154.66	0.61	1155.28	0.07	1156.77
W48	0.03	1154.70	0.37	1155.35	0.11	1156.44
W49	0.33	1155.31	0.31	1156.04	0.02	1157.32
W66	----	1161.32	----	1161.88	----	1162.47
W67	----	1161.28	----	1161.86	----	1162.42
W68A	----	----	0.43	1161.41	----	----
W68B	----	----	----	1161.88	----	----
W69	0.79	1159.28	0.66	1159.85	0.81	1160.70
W70B	----	----	----	1161.45	----	----
River	----	No Gage	----	No Gage	----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

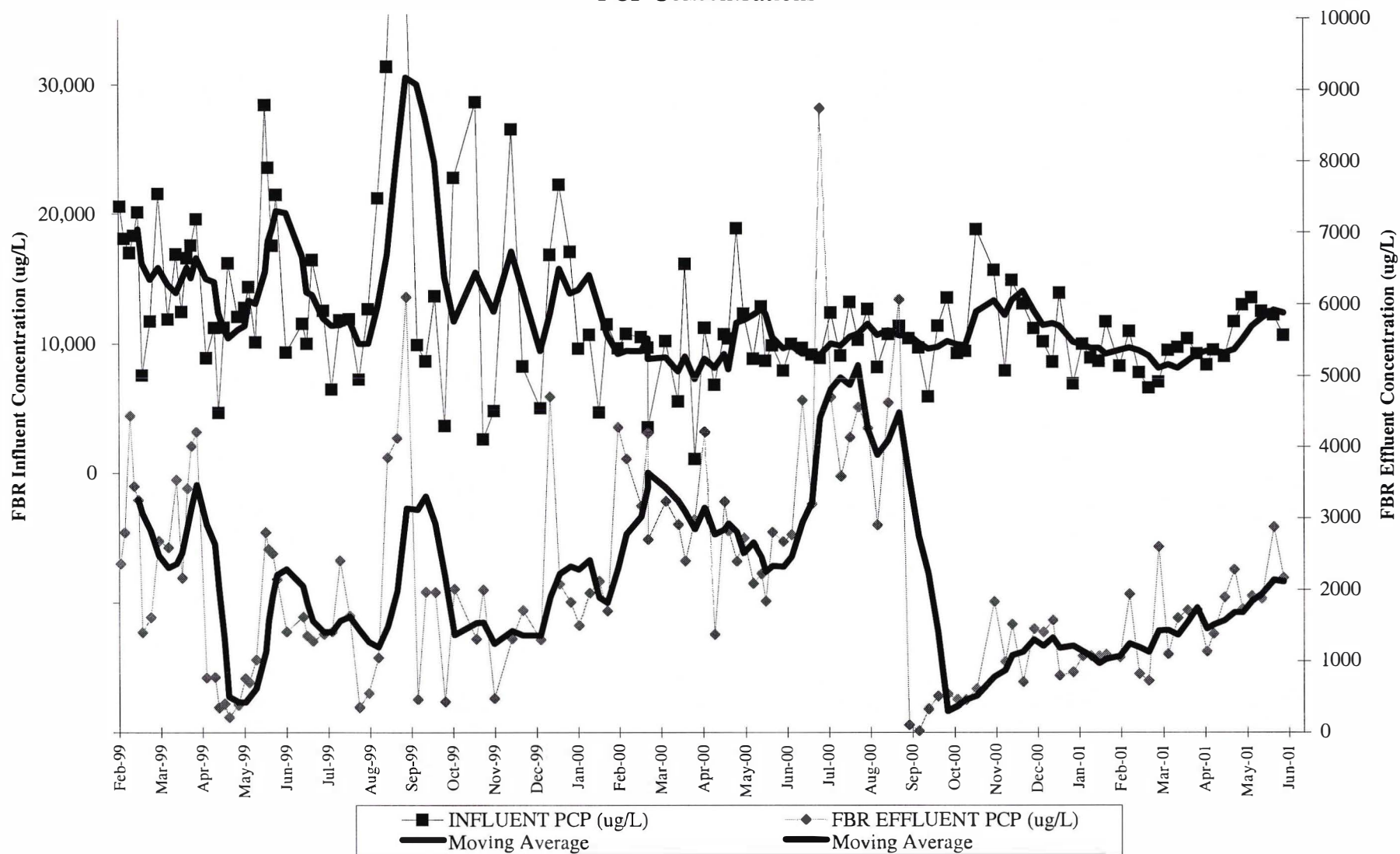
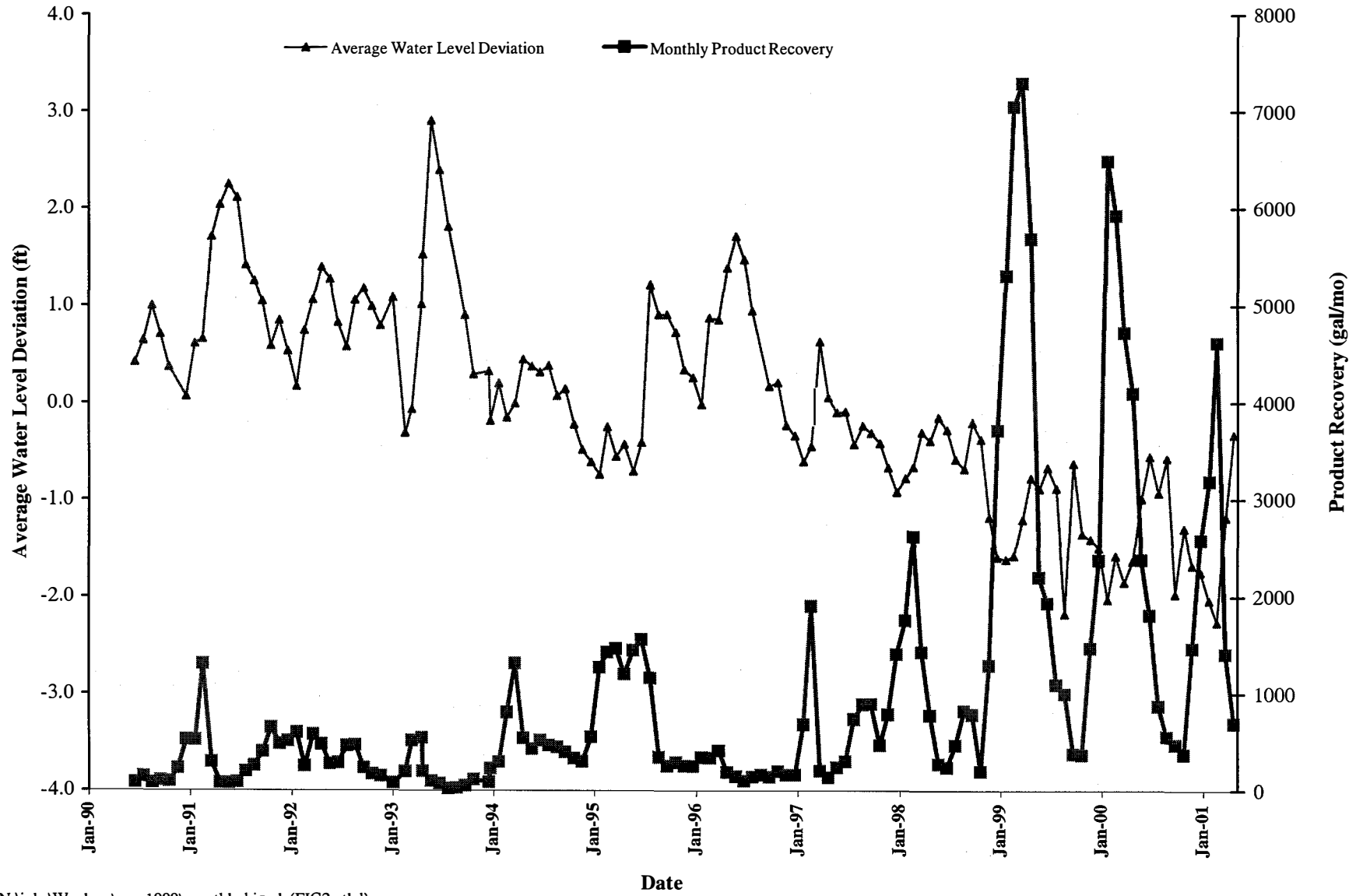
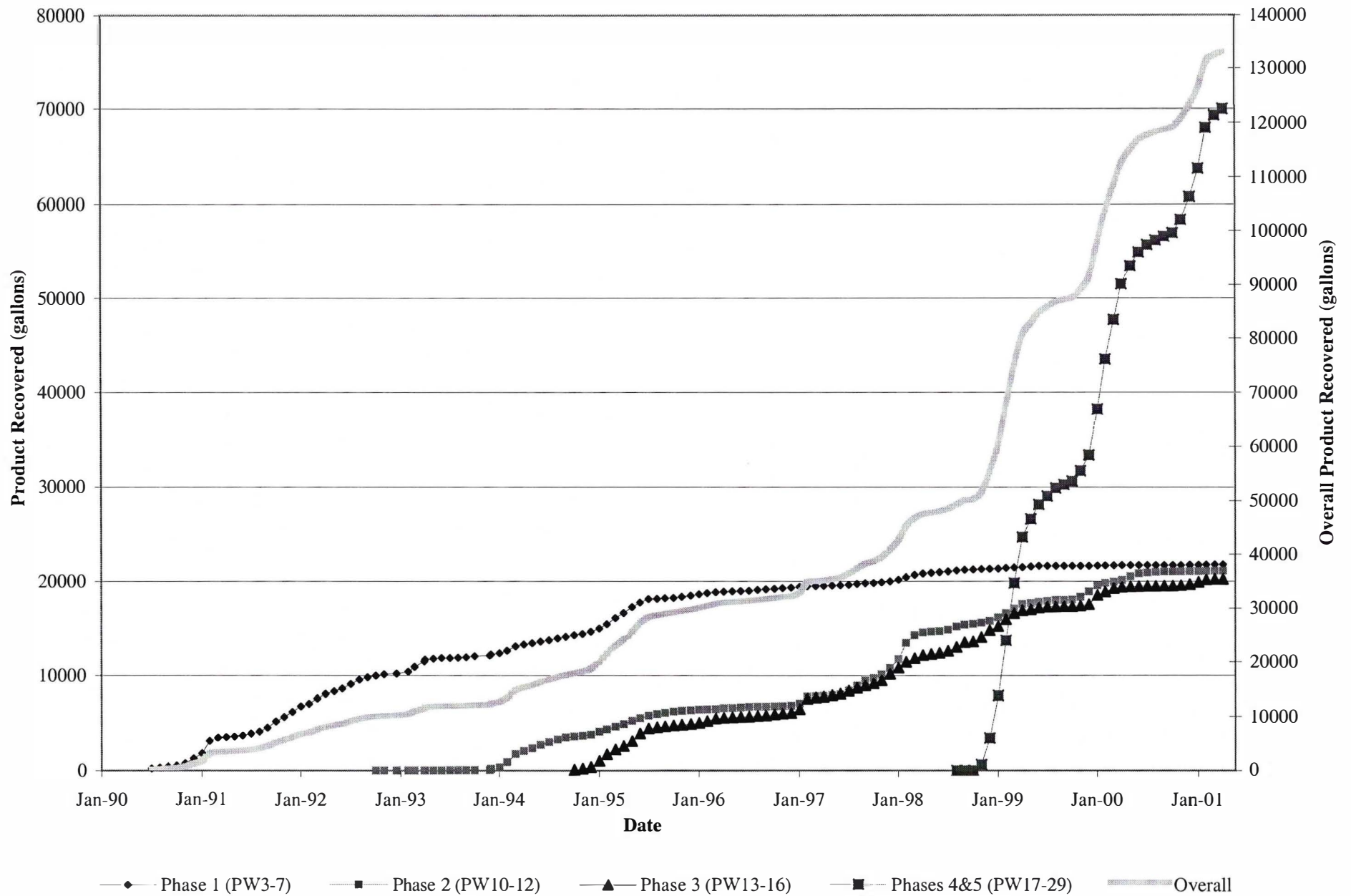


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MONTGOMERY WATSON

May 30, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED

MAY 31 2001

WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the April Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
APRIL 2001**

SUMMARY OF APRIL 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 2 ug/L for the month of April, with a maximum single day concentration of 7 ug/L on April 25, 2001.

Since laboratory results were not available in time for the March monthly report, results from that sampling and the April sampling are both included in Table 1. Both laboratory and on-site screening results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 8335 ug/L to 11,645 ug/L during April (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent and effluent increased slightly. The average PCP removal efficiency for the FBR during April was 83% compared to an average of 79% during the previous year.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on March 15 and April 18, 2001 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.24 ug/L and <0.14 ug/L, respectively.

Daily groundwater flow through the treatment system (Table 2) averaged 53 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased noticeably in April. As a result, product recovery for April was 1414 gallons, down from 4614 gallons in March. By comparison, total product recovery was 4719 gallons in April 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

PHL/phl/DJB
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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters 1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	03/15/01	26	19				2	
	mg/L	04/18/01	12	5				6	
Chemical Oxygen Demand	mg/L	03/15/01	63	42				38	
	mg/L	04/18/01	57	55				23	
Chloride	mg/L	03/15/01	270	270				280	
	mg/L	04/18/01	210	160				24	
Dissolved Oxygen	mg/L	04/05/01	7.3	2.9	4.6				
	mg/L	04/10/01	7.3	3.1	4.2				
	mg/L	04/18/01	6.8	2.7	3.2				
	mg/L	04/25/01	7.4	2.2	2.8				
Nitrogen, Ammonia	mg/L	04/05/01	2.5	0.6	0.6				
	mg/L	04/10/01	2.5	0.6	0.4				
	mg/L	04/18/01	2.5	0.6	0.6				
	mg/L	04/25/01	3	0.5	0.5				
Nitrogen, Nitrate	mg/L	04/05/01	<	0.1	1				
	mg/L	04/10/01	<	<	<				
	mg/L	04/18/01	<	<	<				
	mg/L	04/25/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	03/15/01	1	0.51				<	
	mg/L	04/18/01	0.93	1.58				<	
Nitrogen, Total Kjeldahl	mg/L	03/15/01	1.9	1.2				0.88	
	mg/L	04/18/01	2.2	1.6				1.1	
Pentachlorophenol-Screen	µg/L	04/01/01						1	
	µg/L	04/02/01						1	
	µg/L	04/03/01						3	
	µg/L	04/04/01						2	
	µg/L	04/05/01	8335	1132	1089			1	
	µg/L	04/06/01						2	
	µg/L	04/07/01						1	
	µg/L	04/08/01						1	
	µg/L	04/09/01						1	
	µg/L	04/10/01	9468	1385	1071			3	
	µg/L	04/11/01						2	
	µg/L	04/12/01						1	
	µg/L	04/13/01						2	
	µg/L	04/14/01						2	
	µg/L	04/15/01						2	
	µg/L	04/16/01						2	
	µg/L	04/17/01						4	
	µg/L	04/18/01	8981	1893	1174			3	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	04/19/01						4	
	µg/L	04/20/01						5	
	µg/L	04/21/01						3	
	µg/L	04/22/01						3	
	µg/L	04/23/01						3	
	µg/L	04/24/01						5	
	µg/L	04/25/01	11645	2277	2454			7	
	µg/L	04/26/01						6	
	µg/L	04/27/01						3	
	µg/L	04/28/01						2	
	µg/L	04/29/01						2	
	µg/L	04/30/01						2	
pH	S.U.	04/05/01	6.25	6.3	6.4				
	S.U.	04/10/01	6.2	6.25	6.35				
	S.U.	04/18/01	6.25	6.3	6.35				
	S.U.	04/25/01	6.2	6.25	6.35				
Phosphorus, Ortho	mg/L	03/15/01	0.34	0.19				0.3	
Phosphorus, Ortho	mg/L	04/18/01	0.33	0.2				0.28	
Phosphorus, Phosphate	mg/L	04/05/01	1.5	0.8	0.8				
	mg/L	04/10/01	1	0.8	0.8				
	mg/L	04/18/01	0.8	0.6	0.6				
Phosphorus, Phosphate	mg/L	04/25/01	0.9	0.6	0.6				
Solids, Total Suspended	mg/L	03/15/01	6	8		8	6	6	
	mg/L	04/18/01	4	10		<	<	6	
Mercury	µg/L	03/15/01	0.43	0.49				0.24	
	µg/L	04/18/01	0.37	0.33				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	03/15/01	<	<	<	170	<	<	<
	µg/L	04/18/01	1600	210	160	<	<		<
2,4,5-Trichlorophenol	µg/L	03/15/01	<	<	<	<	<	5.1	4.9
	µg/L	04/18/01	<	<	<	<	<		<
2,4,6-Trichlorophenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<		<
2,4-Dichlorophenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<		<
2,4-Dimethylphenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<		<

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
2,4-Dinitrophenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	03/15/01	<	170	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	03/15/01	<	<	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	03/15/01	<	210	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	03/15/01	8000	1700	1500	1400	76	<	<
	µg/L	04/18/01	14000	2100	1700	1600	180		3.2
Phenol	µg/L	03/15/01	<	180	<	<	<	<	<
	µg/L	04/18/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
04/01/01	50.52	38.02	46,193,577
04/02/01	52.57	38.76	46,249,393
04/03/01	53.70	39.99	46,306,983
04/04/01	53.88	40.71	46,365,604
04/05/01	54.95	40.79	46,424,337
04/06/01	55.35	40.98	46,483,355
04/07/01	55.45	40.80	46,542,108
04/08/01	54.98	40.49	46,600,419
04/09/01	54.73	40.44	46,658,647
04/10/01	55.08	39.75	46,715,880
04/11/01	55.77	41.76	46,776,017
04/12/01	27.51	20.61	46,805,698
04/13/01	38.30	26.49	46,843,850
04/14/01	57.87	43.47	46,906,444
04/15/01	57.10	43.68	46,969,343
04/16/01	56.56	42.93	47,031,169
04/17/01	56.18	43.24	47,093,431
04/18/01	56.33	42.63	47,154,824
04/19/01	56.55	43.62	47,217,642
04/20/01	54.68	41.42	47,277,289
04/21/01	53.90	41.19	47,336,596
04/22/01	53.55	40.64	47,395,122
04/23/01	53.27	40.56	47,453,524
04/24/01	53.70	41.13	47,512,757
04/25/01	53.63	41.29	47,572,213
04/26/01	55.27	42.15	47,632,913
04/27/01	56.39	43.75	47,695,920
04/28/01	56.07	43.26	47,758,210
04/29/01	54.89	40.92	47,817,141
04/30/01	54.68	42.17	47,877,864
Average	53.45	40.26	

Total ⁽²⁾: 1,739,032

Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
04/01/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	1.7	51.6	0.0	5.2	1.7	0.0	5.2	25.8	6.9	17.2	17.2	0.0	0.0	141.1
04/02/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	34.4	0.0	3.4	1.7	0.0	5.2	25.8	6.9	17.2	17.2	0.0	0.0	123.8
04/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	3.4	29.2	0.0	5.2	3.4	0.0	1.7	25.8	8.6	17.2	17.2	0.0	0.0	122.0
04/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	22.1	0.0	3.4	1.7	0.0	3.4	25.8	8.6	17.2	17.2	0.0	0.0	109.7
04/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	1.7	17.2	0.0	3.4	3.4	0.0	1.7	20.4	8.6	17.2	12.0	0.0	0.0	92.5
04/06/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	3.4	25.8	0.0	1.7	1.7	0.0	1.7	15.5	6.9	17.2	8.6	0.0	0.0	89.4
04/07/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	3.4	25.8	0.0	1.7	1.7	0.0	1.7	15.5	6.9	12.0	5.2	0.0	0.0	80.8
04/08/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	3.4	25.8	0.0	1.7	1.7	0.0	3.4	15.5	5.2	8.6	5.2	0.0	0.0	75.6
04/09/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	1.7	25.8	0.0	1.7	0.0	0.0	3.4	12.0	5.2	8.6	3.4	0.0	0.0	66.9
04/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	20.4	0.0	3.4	1.7	0.0	1.7	12.0	6.9	5.2	5.2	0.0	0.0	58.2
04/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	17.2	0.0	1.7	0.0	0.0	0.0	8.6	6.9	3.4	3.4	0.0	0.0	42.9
04/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	3.4	1.7	0.0	1.7	0.0	0.0	15.4
04/13/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	8.6	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	17.1
04/14/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	1.7	0.0	1.7	0.0	1.7	0.0	0.0	17.1
04/15/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	12.0
04/16/01	1.7	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
04/17/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7
04/18/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
04/19/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	3.4	0.0	0.0	0.0	3.4	0.0	0.0	1.7	0.0	0.0	18.8
04/20/01	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	20.5
04/21/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	18.9	0.0	3.4	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	29.2
04/22/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	20.6	0.0	1.7	0.0	0.0	0.0	5.2	0.0	3.4	0.0	0.0	0.0	32.6
04/23/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	27.4
04/24/01	1.7	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	3.4	0.0	3.4	0.0	0.0	0.0	30.8
04/25/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	3.4	0.0	3.4	0.0	0.0	0.0	29.1
04/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	24.0
04/27/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	25.7
04/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	1.7	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	22.3
04/29/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	24.0
04/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	20.6
Well Total	13.6	0.0	0.0	0.0	0.0	25.5	0.0	65.3	0.0	0.0	25.5	549.8	1.7	69.9	20.4	0.0	30.8	248.8	84.4	158.0	120.3	0.0	0.0	1,414.0

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:

PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW22, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	February 19 2001		March 19 2001		April 12 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1161.10	-----	1160.90	0.06	1161.28
PW02	-----	Frozen	-----	Frozen	-----	1161.32
PW03	-----	1161.26	-----	1161.14	-----	1161.64
PW3S	-----	-----	-----	-----	0.02	1158.96
PW04	0.92	1154.79	0.54	1154.38	0.63	1155.56
PW05	1.02	1155.78	0.78	1155.53	0.16	1156.59
PW06	-----	-----	-----	-----	0.39	1160.71
PW07	0.09	1156.00	0.77	1155.30	0.59	1156.58
PW08	-----	-----	-----	-----	0.31	1159.69
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1159.66	-----	1159.39	-----	1160.71
PW10	-----	1159.68	0.02	1159.42	0.03	1160.23
PW11	0.69	1154.34	0.71	1154.05	1.02	1155.44
PW12	-----	Frozen	-----	1160.72	-----	1161.39
PW13	0.82	1157.07	0.46	1157.40	0.23	1157.72
PW14	-----	-----	-----	-----	-----	1159.96
PW15	0.32	1158.64	0.32	1158.48	0.17	1159.58
PW16	-----	1160.09	-----	1157.84	-----	1158.48
PW17	0.77	1156.31	0.98	1156.47	0.07	1158.01
PW18	0.62	1157.51	0.46	1156.30	0.09	1157.97
PW19	0.31	1157.20	0.26	1157.01	0.19	1158.19
PW20	0.83	1156.77	0.58	1156.84	1.23	1157.47
PW21	0.99	1157.31	1.03	1156.52	0.76	1157.63
PW22	-----	1159.86	-----	1159.60	-----	1160.66
PW23	0.04	1157.97	0.64	1156.30	0.67	1156.27
PW24	1.18	1156.08	0.54	1156.24	0.08	1157.88
PW25	0.38	1156.47	0.76	1155.92	0.30	1157.39
PW26	0.52	1155.56	0.73	1155.13	0.10	1157.17
PW27	0.44	1156.04	0.85	1155.32	0.37	1156.97
PW28	0.06	1160.07	0.45	1159.59	-----	1160.59
PW29	0.09	1158.37	0.22	1157.94	-----	1160.75
P01	0.23	1159.12	0.24	1158.78	0.21	1159.88
OW01	-----	-----	-----	-----	-----	1161.83
W01A	-----	1161.68	-----	1161.47	-----	1161.83
W01B	-----	-----	-----	-----	-----	1161.86
W02	0.55	1160.63	0.74	1160.32	0.17	1161.45
W03A	0.58	1158.76	0.62	1158.63	0.52	1159.45
W03B	-----	1160.54	-----	1160.46	-----	1161.34
W04A	0.42	1160.24	0.42	1160.03	0.08	1160.93
W04B	-----	-----	-----	-----	0.20	1160.80
W05	0.73	1158.69	0.40	1158.73	0.09	1160.01
W06R	0.24	1161.34	0.28	1161.10	0.08	1161.73
W07	-----	-----	-----	-----	0.05	1161.36
W08	-----	-----	-----	-----	-----	1168.60
W09	-----	-----	-----	-----	-----	1163.12
W10A	-----	-----	-----	-----	-----	1162.76
W10B	-----	-----	-----	-----	-----	1162.32
W11	-----	-----	-----	-----	-----	1161.68

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	February 19 2001		March 19 2001		April 12 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1161.17
W13	-----	1160.76	-----	1160.68	-----	1162.57
W14	-----	-----	-----	-----	-----	1160.38
W16	-----	-----	-----	-----	-----	1161.81
W17	-----	-----	-----	-----	0.18	1160.14
W18	-----	-----	-----	-----	-----	1163.45
W19	-----	-----	-----	-----	-----	1161.40
W21	-----	-----	-----	-----	-----	1162.06
W22	0.08	1159.71	0.09	1159.61	0.09	1160.40
W23	-----	-----	-----	-----	-----	1161.53
W24A	-----	-----	-----	-----	-----	1161.51
W25	-----	1161.65	-----	1161.46	-----	1161.88
W26	-----	-----	-----	-----	-----	1161.94
W27	-----	-----	-----	-----	-----	1161.56
W28	-----	-----	-----	-----	-----	1164.04
W29	-----	-----	-----	-----	-----	1162.65
W30	0.49	1158.82	0.50	1158.49	0.22	1159.77
W31	-----	-----	-----	-----	-----	1163.01
W32	-----	-----	-----	-----	-----	1163.14
W33	-----	-----	-----	-----	0.20	1160.51
W34	0.13	1156.74	0.12	1156.53	0.19	1157.18
W35	0.36	1159.24	0.28	1159.02	0.31	1159.51
W36	-----	1160.16	-----	1159.95	-----	1160.39
W39	-----	-----	-----	-----	-----	1160.89
W40	-----	-----	-----	-----	0.49	1160.46
W41	-----	1160.73	-----	1160.67	-----	1162.29
W42	-----	-----	-----	-----	-----	1161.21
W44	0.40	1159.33	0.36	1159.06	0.26	1160.14
W45	0.04	1159.65	0.07	1159.31	0.05	1160.89
W46	0.24	1158.95	0.21	1158.62	-----	1159.98
W47	0.68	1154.75	0.66	1154.66	0.61	1155.28
W48	0.07	1154.85	0.03	1154.70	0.37	1155.35
W49	0.40	1155.39	0.33	1155.31	0.31	1156.04
W66	-----	1161.51	-----	1161.32	-----	1161.88
W67	-----	1161.47	-----	1161.28	-----	1161.86
W68A	-----	-----	-----	-----	0.43	1161.41
W68B	-----	-----	-----	-----	-----	1161.88
W69	0.61	1159.68	0.79	1159.28	0.66	1159.85
W70B	-----	-----	-----	-----	-----	1161.45
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

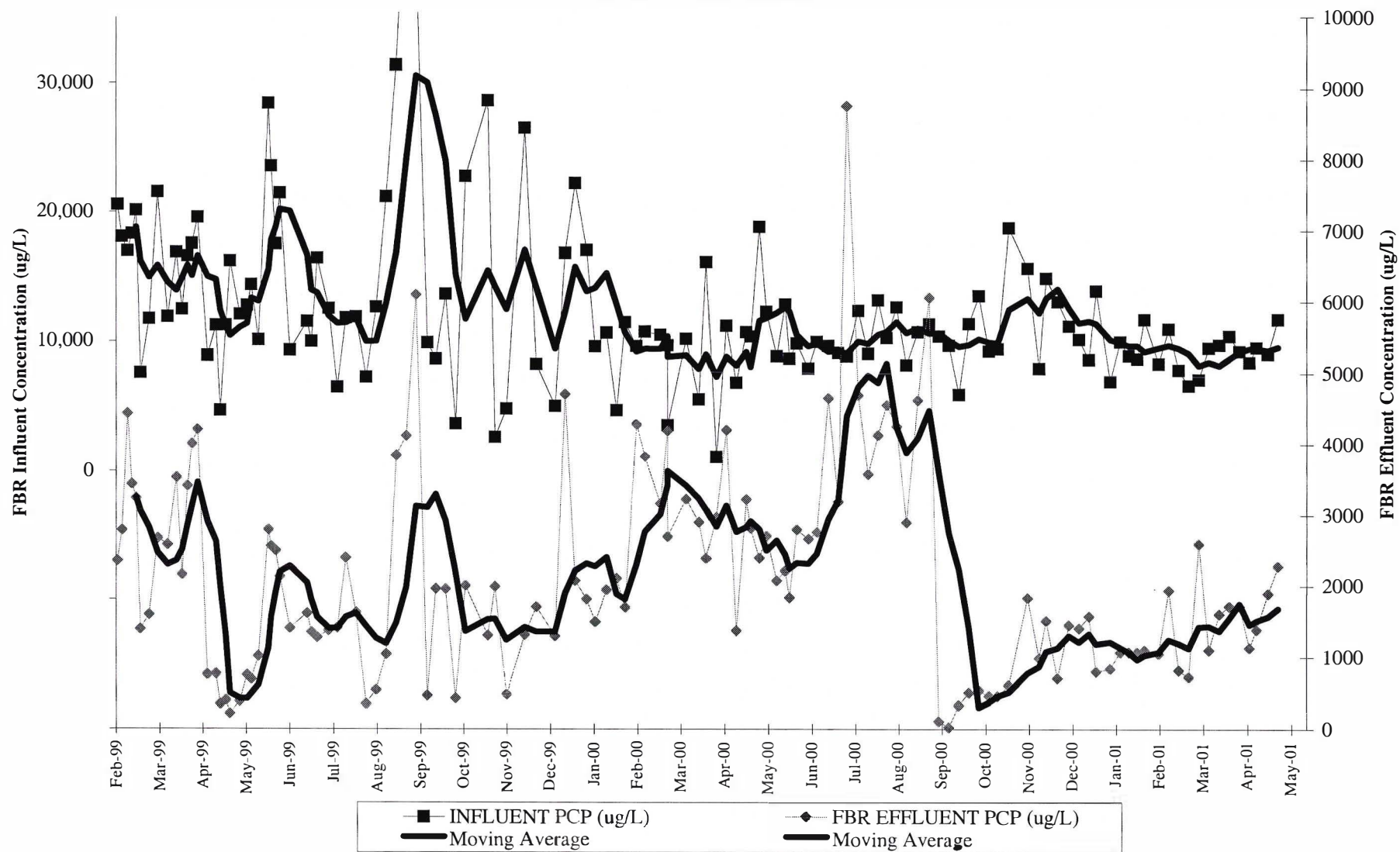
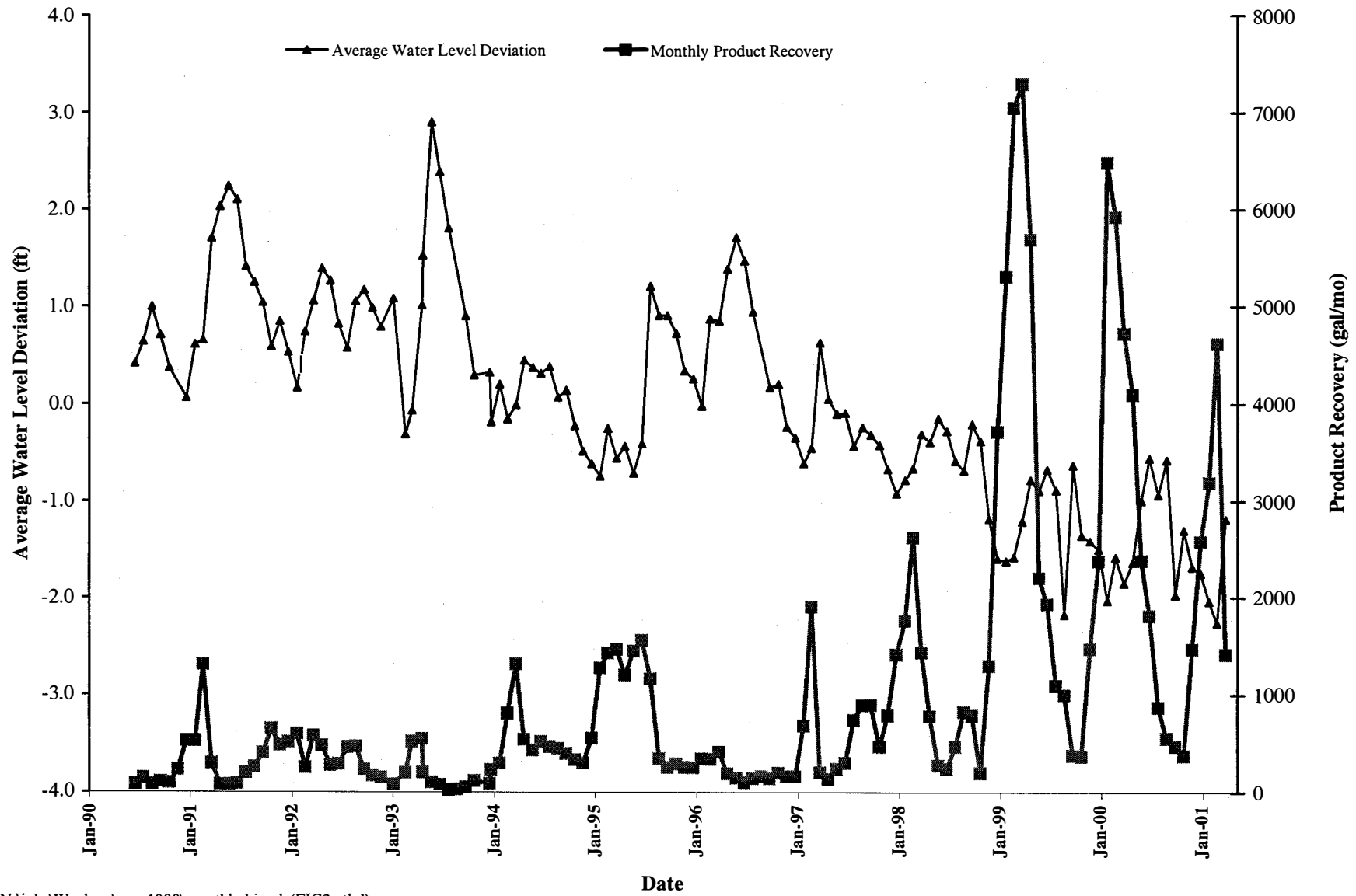
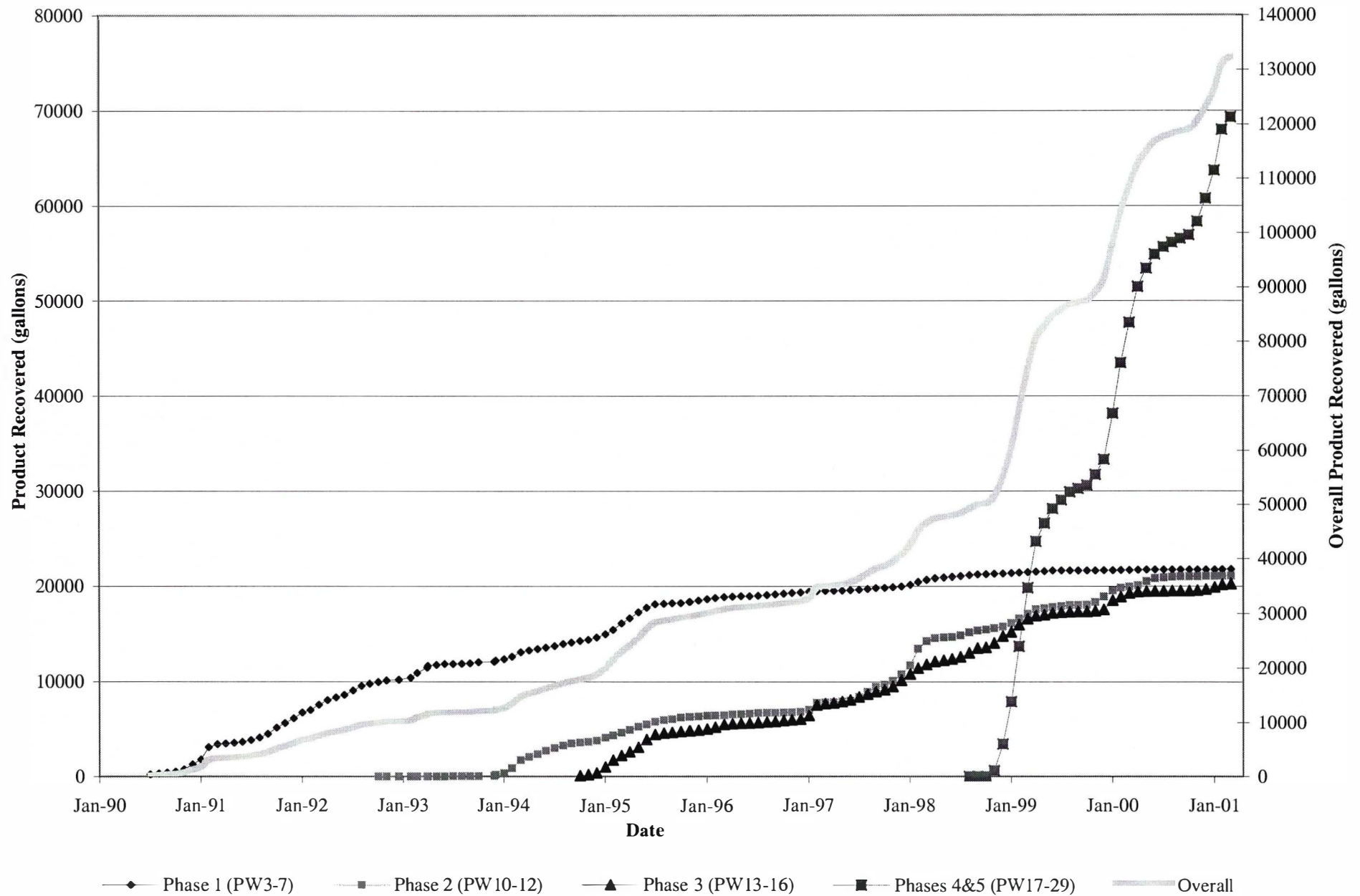


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MONTGOMERY WATSON

May 16, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED
MAY 17 2001
WAUSAU DNR

Re: 2000 Annual Groundwater Monitoring Report
WAULECO, Inc.
Wausau, Wisconsin

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting one copy of 2000 Annual Groundwater Monitoring Report for the WAULECO, Inc. site in Wausau, Wisconsin. This report includes the results of sampling and laboratory analysis for the semi-annual groundwater monitoring events at the Wauleco site.

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

Sincerely,

MONTGOMERY WATSON

Lisa Sanders
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: 2000 Annual Groundwater Monitoring Report

cc: P. Peshek (1)
R. Brandt (3)
T. Dushek – MW Wauleco (1)

DJB/tjh/KJQ
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2000 ANNUAL GROUNDWATER MONITORING REPORT

**WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN**

RECEIVED
MAY 17 2001
WAUSAU DNR

May 2001

**Prepared For:
Wauleco, Inc.
Wausau, Wisconsin**

**...
Prepared By:
Montgomery Watson
City, State**

Project No. 2082336.06160101



MONTGOMERY WATSON



MONTGOMERY WATSON

May 16, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

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MONTGOMERY WATSON



Lisa Sanders
Environmental Engineer



Douglas J. Bach, P.E.
Project Manager

Enclosures: 2000 Annual Groundwater Monitoring Report

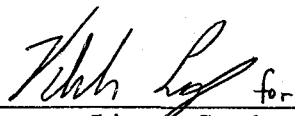
cc: P. Peshek (1)
R. Brandt (3)
T. Dushek – MW Wauleco (1)

DJB/tjh/KJQ
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2000 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

May 2001

Prepared by:  5/16/01
Lisa A. Sanders
Associate Engineer
Date

Reviewed by:  5/16/01
Kenneth J. Quinn, P.G.
Principal Hydrogeologist
Date

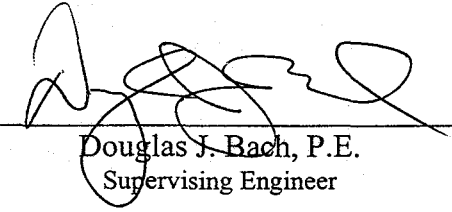
Approved by:  5-16-01
Douglas J. Bach, P.E.
Supervising Engineer
Date

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2000 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC. WAUSAU FACILITY

INTRODUCTION

The 2000 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 first and second semi-annual rounds (winter and summer, respectively) for 2000. For comparison purposes, this report also 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:

- Historic water level deviations in the vicinity of the site (Figure 1).
- Historic water level deviations and product recovery (Figure 2).
- Water table elevations and groundwater contour maps for January and July 2000 (Figures 5 through 8).
- Maps of apparent product thickness for January and July 2000 (Figures 9 and 10).
- Water table elevations and product thicknesses for January and July 2000 are also listed in Table 3.
- Chemical isoconcentrations maps based on July 2000 analytical results for:
 - Pentachlorophenol (PCP) (Figure 11)
 - Benzene (Figure 12)
 - Xylenes (Figure 13)
 - Trichloroethylene (Figure 14)
 - Naphthalene (Figure 15)
 - Total Petroleum Hydrocarbons (TPH) (Figure 16)
 - Chloride (Figure 17)
 - 1,2,4- & 1,3,5-Trichlorobenzene (Figure 18)
- 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 historical analytical results (Appendix B).

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 to the groundwater extraction and treatment system at the Wauleco property, including:

- Discontinuation of the infiltration gallery in 1992.
- The addition of pumping wells PW9 in 1992 and PW10 through PW16 in 1993.
- Eleven new extraction wells PW17 through PW27 were installed in the fall of 1998, and an additional two extraction wells PW28 and PW29 near the northern property line were added on September 27 and 28, 1999.
- In 1999 an upgraded controls system was also added, with additional monitoring and controls capabilities.

In addition to changes in the extraction and treatment system, the following changes have been made to the groundwater monitoring program:

- Abandonment of monitoring wells W6, W15, W20, W37, and W38 in 1993.
- Loss of monitoring well W43 during utility work prior to 1993.
- Installation of new monitoring wells W6R, W68A, W68B, W69, and W70B in 1993.
- In 1997, groundwater sampling moved from a quarterly basis to a semi-annual basis (summer and winter). The wells and parameters included in the semi-annual monitoring program are summarized in Table 1.
- One special round of sampling for dioxin/furan analysis was completed during the June 1998 round.
- The Groundwater Monitoring Report is submitted on an annual basis following completion of the summer round of sampling and analysis.

SAMPLING EVENT SUMMARY

The 2000 Annual Groundwater Monitoring Report provides a presentation and interpretation of data collected at the Wauleco site beginning in 1987 and continuing through July 2000. Sampling activities since 1992 have been conducted in general 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 sampled. The wells sampled during the first and second semi-annual round in 2000 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 (Method EPA 325.2), nitrite + nitrate (Method EPA 353.2), ammonia (Method EPA 350.1), total mercury (Method EPA 7470), volatile organic compounds (VOCs) including naphthalene (Method 8021), phenolic compounds (Method EPA 8041), and total petroleum hydrocarbons (TPH) (Method EPA 8015). A summary of the July 2000 groundwater analytical results is given in Table 4.

PRESENTATION OF RESULTS

As discussed in previous Wauleco Groundwater Monitoring Reports, changes in groundwater level elevations at the Wauleco site influence dissolved contaminant concentrations and apparent product thickness. Generally, periods of high water levels at the site are followed by observed increases in groundwater contaminant concentrations. During periods of high water levels, groundwater comes into contact with soils above the average water table, which have been contaminated by earlier high water events. High groundwater levels also tend to reduce apparent product thickness and distribution, and reduce product recovery. Generally, as groundwater levels increase, apparent product thickness will decrease, and as water levels decline, apparent product thickness will increase. When water levels are high, the non-aqueous phase product is trapped in the aquifer soil pore spaces, as water levels decline, the product coalesces as free product on the water table.

As shown in Figure 1, average water levels at the site declined markedly following the startup of the eleven new extraction wells in the fall of 1998. Historically low water levels occurred during September 1999. The levels for 2000 reached a low in March, which was only slightly higher than the low in September of 1999. Figures 5 and 6 show water table elevations from each well for January and July 2000 respectively; Figures 7 and 8 show water table contours for the same periods. The 1,160 ft (MSL) contour lines on Figures 7 and 8 show the combined cone of depression around the extraction well area. As shown in these figures the area within the combined cone of depression decreased from January to July 2000, and upgradient groundwater elevations increased during the same period. These observations also indicate a period of increased groundwater recharge during mid-2000. The changes in groundwater elevation followed a similar trend in 1999.

Apparent product thickness during January and July 2000 are shown on Figures 9 and 10 respectively. Apparent product thickness represents a measurable thickness of product, which has moved into a monitoring well, but it does not necessarily reflect the actual thickness of free product on the water table. The extent of product in July 2000 (Figure 10) and January 2000 (Figure 9) appear similar with a relatively small shift at the thicknesses above 1.0 feet. Shifts in product extent have been observed in previous years, and may be the result of seasonal changes in infiltration pathways. While small fluctuations occur along the perimeter area of the measurable free product, the general extent of apparent free product has remained stable since at least 1994.

The relationship between product recovery and groundwater levels at the site is depicted in Figure 2. Product recovery for 2000 totaled 31,500 gallons (see Table 5) compared to 37,500 gallons in 1999 and 12,091 gallons during 1998. The majority of the increase recovery for 1999 and 2000 is due to the lower water levels created by pumping higher rates with the additional extraction wells. Average water level deviation was maintained at a new consistent low (around -1.75 feet)**. Product recovery during this period was at a slightly lower rate than during the slightly higher water levels during January through March 1999. This suggests that relative to historic conditions there may be noticeable less product to recover.

In addition, to product recovery, PCP is also removed through water treatment in the FBR system. During 2000, a total of 25,963,949 gal of water was treated through the FBR system. The average PCP concentration of the influent water was 10,203 ug/L which translates to 2,212 lb of PCP treated per year or, assuming 5% PCP in the original product formulation, an equivalent of 6560 of product removal.

A summary of the analytical results for each monitoring well 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 petroleum hydrocarbons (TPH), and chloride concentrations are provided in Figures 11 through 18.

Results for the July 2000 indicate steady or increasing extent of the contaminants from the June 1999 results. Although in some instances an increase is seen from June 1999 to July 2000, the July 2000 sampling round still remains constant with or below historic concentrations. Isoconcentration maps, as depicted in Figures 11 through 18 and compared to previous monitoring events, indicate the extent of Wisconsin Administrative Code, Chapter NR 140 (NR 140) Enforcement Standard (ES) and Preventive Action Limit (PAL) exceedances have remained constant during the past year. Following is a summary of changes/trends in specific contaminant concentrations since the 1999 Annual Report:

- **PCP** – Overall PCP concentrations in July 2000 were similar to June 1999, with increases noted in some wells and decreases in others. The majority of increases occurred in the downgradient southeasterly wells, near the edge of the plume. PCP concentrations at all wells were within historic levels, with the exception of well W01A, located on the west side of the site, and W12, located near the southeast edge of the plume (see PCP time trend graphs in Appendix B1). The concentrations at W12 and W01A increased from the June 1999 results. Downgradient wells W29 and W21 had detects of 19 ug/L and 10 ug/L respectively, where in June 1999 these wells showed no detectable concentrations of PCP.
- **Benzene** - The extent of benzene concentrations above the 0.5 ug/L contour (equal to the NR 140 PAL) increased from the concentrations in June 1999. Benzene was only detected in one monitoring well in July 2000, W26 at 11 ug/L compared to 4 ug/L in June of 1999. The benzene levels have remained lower than the June 1998 levels of 55 ug/L at W26.

- **Total Xylenes** – The extent and concentrations of total xylenes in July 2000 increased from the June 1999 results. This increase is especially apparent northeast of the site, where a decrease had been observed from June 1998 to June 1999 (See Figure 13).
- **Trichloroethylene** - The areal extent for TCE concentrations above 5 ug/L (the NR 140 ES) during the July 2000 sampling is similar to the June 1999 sampling round. TCE did not exceed the ES in any wells except W25 (see Figure 14).
- **Naphthalene** – The extent of naphthalene concentrations during the July 2000 sampling is similar to the June 1999 sampling round. The extent of the 100 ug/L naphthalene isoconcentration contour was increased to a larger area near W10A in 2000 (see Figure 15). This increase in the 100 ug/L naphthalene isoconcentration contour is due to the increased concentrations found in monitoring wells W26 and W39, 80 ug/L and 84 ug/L (July 2000) from 46 ug/L and 40 ug/L (June 1999) respectively.
- **TPH** - The areal extent of total petroleum hydrocarbon (TPH) concentrations above 1.0 mg/L increased from June 1999 to July 2000. The increase in the extent of the contamination was mostly due to decreased TPH concentrations at W10A and W26, downgradient of the site (see Figure 16). The extent of the 100 mg/L isoconcentration contour also increased due to the significant change in concentration at monitoring well W39, from 27 mg/L (June 1999) to 240 mg/L (July 2000).
- **Chloride** – As in previous years, chloride concentrations detected in groundwater appear to be influenced by other potential sources, such as road salt use in the area. The chloride isoconcentration contour is left open to the southwest of the site (see Figure 17).
- **1,2,4- & 1,3,5- Trimethylbenzene** – The concentration of total trimethylbenzene seems to have increased from June 1999 to July 2000. However the extent of the 96 ug/L contour line has remained relatively steady from the previous year (see Figure 18).

SUMMARY AND CONCLUSIONS

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. The average water levels at the site reached several historic lows in 1999 due, in part, to the effects of eleven additional extraction wells. This extended the radius of influence of the extraction system and increased product removal rates significantly.

Increases in the concentrations in July 2000 from June 1999 may be attributable to the changes in water table levels from the months preceding the sampling period. In 1999 there was little change with the average May 1999 water table level at 1160.33 ft msl and the

average June 1999 water table level at 1160.11 ft msl. The change from June 2000 to July 2000 was almost three-fourths of a foot, with the average June 2000 water table level at 1159.63 ft msl and the average July 2000 water table level at 1160.33 ft msl. The increase in the water table from June to July in 2000, along with the increase in the water table after the historic low in September 1999, may have increased the concentrations in groundwater by bringing groundwater in contact with residual phase product, which was previously located above the water table.

The product recovery efforts from 1999 and 2000 reached levels well above historical trends. However, since the implementation of additional wells and modifications to the system operation in 1999 the recovery of product has decreased from 7,584 gallons in 1999 to 6,560 gallons in 2000. Figure 2 shows high product recovery continues to occur as lows in the water table extend over a significant period of time. As the system continues to remove product the remaining product has to travel a greater distance to reach the extraction wells creating a decrease in the efficiency of the system. The system is effectively removing product from the area and recovery levels well above historical levels are expected to continue for some time.

Footnote:

** Although this same level was achieved during one month in 1999, consecutive months of low water levels are required to achieve higher product recovery.

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TABLE 1**GROUNDWATER MONITORING PROGRAM****WAULECO, INC.****WAUSAU, WISCONSIN**

Well Location	Semi-Annual	Annual
W1A	W	S
W2	W	S
W3A	W	S
W3B		S
W6R	W	S
W8	W	S
W9		S
W10A		S
W10B		S
W11		S
W12		S
W13	W	S
W14		S
W16		S
W17	W	S
W18		S
W19	W	S
W21		S
W22	W	S
W25	W	S
W26	W	S
W27		S
W28		S
W29		S
W32		S
W33	W	S
W36	W	S
W39	W	S
W40	W	S
W41	W	S
W69	W	S

Notes:

W = Designates well locations to be sampled during the winter sampling round and analyzed for:
phenolic compounds, mercury, chloride, nitrite + nitrate, ammonia, field pH, and field specific conductance.

S = Designates well locations to be sampled during the summer sampling round and analyzed for:
phenolic compounds, total petroleum hydrocarbons, volatile organic compounds plus naphthalene, chloride,
nitrite + nitrate, ammonia, field pH, and field specific conductance.

TABLE 2

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

Well Location	January 2000	July 2000
W1A	X	X
W2	Product	Product
W3A	Product	Product
W3B		X
W6R	Product	Product
W8	X	X
W9		X
W10A		X
W10B		X
W11		X
W12		X
W13	X	X
W14		X
W16		X
W17	Product	Product
W18		X
W19	Product	X
W21		X
W22	Product	Product
W25	X	X
W26	X	X
W27		X
W28		X
W29		X
W32		X
W33	Product	Product
W36	X	X
W39	Product	X
W40	Product	Product
W41	X	X
W69	Product	Product

Notes:

January 2000 (Winter Sampling Round) samples collected on January 10 and 11, 2000.

June 2000 (Summer Sampling Round) samples collected on July 17, 18, and 19, 2000.

X - indicates groundwater sample obtained and sent to laboratory.

TABLE 3

Groundwater Elevation Data
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin

<u>Well</u>	post Aug95 Top of Casing Elevation (ft msl)	January 10 2000		July 17 2000	
		Product (oil) Thickness (ft)	Water Elevation (ft msl)	Product (oil) Thickness (ft)	Water Elevation (ft msl)
PW01	1197.55	0.05	1161.34	-----	1162.45
PW02	1197.10	-----	1161.38	-----	1162.46
PW03	1190.53	-----	1161.48	-----	1162.47
PW3S	1188.51	0.34	1158.87	0.04	1159.73
PW04	1190.50	0.24	1154.06	0.02	1156.25
PW05	1187.43	0.49	1152.70	0.23	1157.21
PW06	1191.94	0.47	1160.50	0.43	1161.43
PW07	1189.70	-----	1157.02	0.61	1157.50
PW08	1189.87	0.36	1159.59	0.36	1160.63
PW9I	1188.58	-----	-----	-----	-----
PW9O	1189.94	-----	1161.62	-----	1161.01
PW10	1191.66	0.64	1156.87	-----	1161.07
PW11	1188.75	0.52	1155.85	0.86	1154.46
PW12	1192.11	-----	1161.49	-----	1161.88
PW13	1192.2	0.87	1157.44	0.61	1157.98
PW14	1188.87	0.12	1159.99	0.14	1160.73
PW15	1189.31	0.05	1159.93	0.44	1160.21
PW16	1191.88	0.24	1158.43	-----	1160.59
PW17	1191.84	1.04	1155.94	0.37	1157.12
PW18	1190.14	0.93	1158.83	0.05	1159.47
PW19	1192.62	0.76	1159.31	0.61	1158.63
PW20	1191.32	0.62	1159.23	0.47	1159.17
PW21	1190.19	0.09	1159.81	0.07	1159.57
PW22	1192.3	-----	1160.40	-----	1161.12
PW23	1189.47	0.35	1158.78	0.43	1157.54
PW24	1188.28	0.52	1158.65	0.11	1158.34
PW25	1189.52	0.53	1158.06	0.92	1157.33
PW26	1188.8	0.31	1158.00	-0.27	1157.67
PW27	1188.51	0.31	1158.53	1.08	1156.43
PW28	1192.24	0.12	1160.31	0.13	1161.22
PW29	1192.26	0.35	1158.60	0.61	1158.63
P01	1191.46	0.40	1159.79	0.22	1160.48
OW01	1197.58	-----	1161.84	-----	1162.93
W01A	1194.11	-----	1161.98	-----	1163.06
W01B	1194.89	-----	1161.98	-----	1163.03
W02	1193.58	0.03	1161.35	0.49	1161.94
W03A	1187.64	0.42	1159.53	0.61	1160.07
W03B	1187.69	-----	1160.78	-----	1161.32
W04A	1192.31	0.39	1160.56	0.12	1161.71
W04B	1192.23	0.17	1160.73	0.07	1161.71
W05	1190.58	0.57	1159.62	0.32	1160.42
W06R	1193.99	0.32	1161.55	0.16	1162.75
W07	1197.32	-----	Frozen	-----	1162.58
W08	1206.73	-----	1169.85	-----	1174.61
W09	1172.80	-----	1161.30	-----	1162.15

TABLE 3

Groundwater Elevation Data
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin

<u>Well</u>	post Aug95 Top of Casing Elevation (ft msl)	January 10 2000		July 17 2000	
		Product (oil) Thickness (ft)	Water Elevation (ft msl)	Product (oil) Thickness (ft)	Water Elevation (ft msl)
W10A	1182.59	-----	1160.66	-----	1160.99
W10B	1182.44	-----	1160.68	-----	1161.02
W11	1175.25	-----	1160.63	-----	1160.92
W12	1173.95	-----	1160.32	-----	1160.56
W13	1188.73	-----	1160.76	-----	1161.47
W14	1172.41	-----	1159.37	-----	1159.71
W16	1180.60	-----	1160.95	-----	1161.69
W17	1187.32	0.39	1159.71	0.28	1160.55
W18	1172.92	-----	1160.66	-----	1160.97
W19	1194.28	0.03	1161.24	-----	1162.32
W21	1170.14	-----	1160.55	-----	1160.78
W22	1186.01	0.25	1159.90	0.17	1160.70
W23	1171.55	-----	1160.50	-----	1160.87
W24A	1171.77	-----	1160.49	-----	1160.85
W25	1194.50	-----	1161.94	-----	1163.06
W26	1176.90	-----	1160.59	-----	1160.96
W27	1180.19	-----	1160.76	-----	1161.43
W28	1174.36	-----	1160.74	-----	1160.97
W29	1172.60	-----	1160.61	-----	1160.85
W30	1189.84	0.76	1159.37	0.22	1160.40
W31	1169.67	-----	1160.68	-----	1160.81
W32	1169.43	-----	1160.69	-----	1160.81
W33	1188.49	0.27	1160.40	0.11	1161.38
W34	1187.75	0.26	1157.04	0.10	1157.96
W35	1191.84	0.51	1159.73	0.46	1160.45
W36	1192.29	-----	1160.88	-----	1161.64
W39	1187.77	0.08	1160.60	-----	1161.53
W40	1180.69	0.61	1159.83	0.72	1160.47
W41	1185.04	-----	1160.97	-----	1162.48
W42	1194.52	0.19	1161.08	0.17	1162.11
W44	1190.93	0.49	1159.91	0.15	1160.80
W45	1190.68	0.03	1160.28	0.11	1161.19
W46	1191.42	0.82	1159.33	0.60	1159.97
W47	1185.99	1.94	1154.21	1.48	1154.97
W48	1186.28	0.14	1156.17	-----	1156.68
W49	1185.91	0.57	1156.16	0.16	1157.22
W66	1192.36	-----	1161.82	-----	1162.79
W67	1191.80	-----	1161.79	-----	1162.75
W68A	1190.90	0.81	1161.11	0.28	1162.55
W68B	1191.39	-----	1161.78	-----	1162.71
W69	1192.20	0.64	1160.10	0.66	1160.87
W70B	1200.27	-----	1161.52	-----	1162.57
River	1164.19	-----	No Gage	-----	No Gage

Notes:

ft msl = feet mean sea level

TABLE 4

2000 Groundwater Monitoring Analytical Results
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES Mar-00	PAL Mar-00	W01A	W03B	W08	W09	W10A	W10B	W11	W12	W12 Dup.	W13
INDICATORS												
Total Chloride (mg/L)	250	125	165	20.4	174	21.9	77.7	1.85	40.7	101	106	119
Ammonia Nitrogen Total (mg/L)	None	None	<0.02	<0.02	<0.02	0.080	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate + Nitrite Nitrogen (mg/L)	10	2	3.07	3.72	2.77	<0.08	<0.08	0.280	1.43	3.76	3.59	4.05
Total Mercury	2	0.2	<0.16	<0.16	<0.16	0.96	0.55	<0.16	0.16 e	<0.16	<0.16	<0.16
TPH as Mineral Spirits	None	None	94,000	<500	<500	<500	2900	<500	<500	<500	<500	<500
PHENOLS												
2-Chlorophenol	None	None	3,100 z	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
Phenol	6000	1200	2,700	<3.0	<3.0	<15	770	<30	<3.0	<3.0	<3.0	<3.0
2-Methylphenol	None	None	2,000	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2-Nitrophenol	None	None	2,500	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
3 & 4-Methylphenol	None	None	2,900 z	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2,4-Dimethylphenol	None	None	1,600	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2,4-Dichlorophenol	None	None	2,100	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2,6-Dichlorophenol	None	None	2,500	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2,4,6-Trichlorophenol	None	None	210	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
4-Chloro-3-methylphenol	None	None	300	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2,4,5-Trichlorophenol	None	None	970	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	<3.0	<3.0
2,4-Dinitrophenol	None	None	<150	<3.0	<3.0	<15	<300	<30	<3.0	<3.0	3.3	<3.0
2,3,4,6-Tetrachlorophenol	None	None	<150	<3.0	<3.0	<15	<300	<30	3.6 z	23	20	16 z
4,6-Dinitro-2-methylphenol	None	None	200	<3.0	<3.0	62 z	<300	<30	<3.0	<3.0	<3.0	<3.0
Pentachlorophenol	1	0.1	690	49	<3.0	33	9900	<30	170	510	510	300
4-Nitrophenol	None	None	3,500 bz	4.4 bz	3.5 bz	59 bz	340 bz	<30	3.2 bz	3.1 bz	3.2 bz	3.4 bz
Total Phenols			25,270	53.4	3.5	154	11010	0	176.8	536.1	536.5	319.4

TABLE 4

**2000 Groundwater Monitoring Analytical Results
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin**

Sample ID	ES Mar-00	PAL Mar-00	W01A	W03B	W08	W09	W10A	W10B	W11	W12	W12 Dup.	W13
VOLATILE ORGANICS												
1,2,4-Trimethylbenzene	480 a	96 a	130	<0.20	<0.20	<0.20	700	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	70	7	<4.0	<0.40	<0.40	<0.40	<8.0	<0.40	<0.40	<0.40	<0.40	<0.40
1,3,5-Trimethylbenzene	480 a	96 a	97	<0.30	<0.30	<0.30	78	<0.30	<0.30	<0.30	<0.30	<0.30
Benzene	5	0.5	<1.0	<0.10	<0.10	<0.10	<2.0	<0.10	<0.10	<0.10	<0.10	<0.10
n-Butylbenzene	None	None	170	<0.40	<0.40	1.4	86	<0.40	<0.40	<0.40	<0.40	<0.40
sec-Butylbenzene	None	None	18	<0.30	<0.30	5.8	37	<0.30	1.3	<0.30	<0.30	1.4
tert-Butylbenzene	None	None	<1.0	<0.10	<0.10	<0.10	<2.0	<0.10	<0.10	<0.10	<0.10	<0.10
Chloroform	6	0.6	<5.0	<0.50	<0.50	<0.50	<10	<0.50	<0.50	1.2 e	2.0	<0.50
Ethylbenzene	700	140	<1.0	<0.10	<0.10	<0.10	19	<0.10	<0.10	<0.10	<0.10	<0.10
Isopropylbenzene	None	None	<1.0	<0.10	<0.10	4.1	32	<0.10	<0.10	<0.10	<0.10	<0.10
p-Isopropyltoluene	None	None	34	<0.20	<0.20	<0.20	<4.0	<0.20	<0.20	<0.20	<0.20	<0.20
Naphthalene	40	8	<7.0	<0.70	<0.70	0.81	130	<0.70	<0.70	<0.70	<0.70	1.2 ez
n-Propylbenzene	None	None	<3.0	<0.30	<0.30	<0.30	54	<0.30	<0.30	<0.30	<0.30	<0.30
Tetrachloroethene	5	0.5	<4.0	<0.40	<0.40	<0.40	<8.0	<0.40	<0.40	<0.40	<0.40	0.51 e
Toluene	1000	200	<1.0	<0.10	<0.10	<0.10	7.1	<0.10	<0.10	<0.10	<0.10	<0.10
Trichloroethene	5	0.5	<3.0	0.55	<0.30	<0.30	<6.0	<0.30	0.62	0.93	1.3	1.5
m & p-Xylene	10000c	1000c	<2.0	<0.20	<0.20	<0.20	49	<0.20	<0.20	<0.20	<0.20	<0.20
o-Xylene	10000c	1000c	<1.0	<0.10	<0.10	<0.10	110	<0.10	<0.10	<0.10	<0.10	<0.10
Total VOCs			449	0.55	0	12.11	1302.1	0	1.92	2.13	3.3	4.61

TABLE 4

2000 Groundwater Monitoring Analytical Results
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES Mar-00	PAL Mar-00	W14	W16	W18	W19	W21	W25	W26	W27	W27 Dup	W28
INDICATORS												
Total Chloride (mg/L)	250	125	112	122	34.2	1610	87.7	186	375	332	351	50.9
Ammonia Nitrogen Total (mg/L)	None	None	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate + Nitrite Nitrogen (mg/L)	10	2	3.63	4.74	2.01	3.66	1.51	5.74	<0.08	0.31	0.280	0.210 e
Total Mercury	2	0.2	<0.16	0.26 e	0.27 e	1.3	<0.16	<0.16	<0.16	0.83	0.91	0.24 e
TPH as Mineral Spirits	None	None	<500	<500	<500	41000	<500	<500	4800	3700	4000	<500
PHENOLS												
2-Chlorophenol	None	None	<3.0	<3.0	<3.0	870	<3.0	<3.0	<1500	<150	<150	<3.0
Phenol	6000	1200	<3.0	<3.0	<3.0	3600	<3.0	20	<1500	700	810	<3.0
2-Methylphenol	None	None	<3.0	<3.0	<3.0	910	<3.0	<3.0	<1500	<150	<150	<3.0
2-Nitrophenol	None	None	<3.0	<3.0	<3.0	1100	<3.0	<3.0	<1500	<150	<150	<3.0
3 & 4-Methylphenol	None	None	<3.0	<3.0	<3.0	2400	<3.0	<3.0	<1500	<150	<150	<3.0
2,4-Dimethylphenol	None	None	<3.0	<3.0	<3.0	<300	3.8	<3.0	<1500	<150	<150	<3.0
2,4-Dichlorophenol	None	None	<3.0	<3.0	<3.0	570	<3.0	<3.0	<1500	<150	<150	<3.0
2,6-Dichlorophenol	None	None	<3.0	<3.0	<3.0	630	<3.0	<3.0	<1500	<150	<150	<3.0
2,4,6-Trichlorophenol	None	None	<3.0	<3.0	<3.0	<300	<3.0	<3.0	<1500	<150	220 z	<3.0
4-Chloro-3-methylphenol	None	None	<3.0	<3.0	<3.0	<300	<3.0	<3.0	<1500	<150	<150	<3.0
2,4,5-Trichlorophenol	None	None	<3.0	<3.0	<3.0	<300	<3.0	<3.0	<1500	<150	1600	<3.0
2,4-Dinitrophenol	None	None	<3.0	<3.0	<3.0	<300	<3.0	<3.0	<1500	<150	1200	<3.0
2,3,4,6-Tetrachlorophenol	None	None	<3.0	<3.0	<3.0	<300	<3.0	7.4 z	<1500	850 z	1400 z	<3.0
4,6-Dinitro-2-methylphenol	None	None	<3.0	<3.0	<3.0	<300	<3.0	<3.0	<1500	<150	<150	<3.0
Pentachlorophenol	1	0.1	7.4	9.6	80	<300	10	160	23,000	14,000	12,000	4.6
4-Nitrophenol	None	None	4.0 bz	3.2 bz	3.3 bz	1000 bz	3.4 bz	4.7 bz	1600 bz	290 bz	510 bz	<3.0
Total Phenols			11.4	12.8	83.3	11080	17.2	192.1	24600	15840	17740	4.6

TABLE 4

2000 Groundwater Monitoring Analytical Results
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES Mar-00	PAL Mar-00	W14	W16	W18	W19	W21	W25	W26	W27	W27 Dup	W28
VOLATILE ORGANICS												
1,2,4-Trimethylbenzene	480 a	96 a	<0.20	<0.20	<0.20	140	<0.20	37	570	400	330	<0.20
cis-1,2-Dichloroethene	70	7	<0.40	<0.40	<0.40	<4.0	<0.40	7.7	<20	<4.0	<8.0	<0.40
1,3,5-Trimethylbenzene	480 a	96 a	<0.30	<0.30	<0.30	110	<0.30	15	210	130	110	<0.30
Benzene	5	0.5	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10	11 e	<1.0	<2.0	<0.10
n-Butylbenzene	None	None	<0.40	<0.40	<0.40	150	<0.40	6.9	76	90	79	<0.40
sec-Butylbenzene	None	None	<0.30	<0.30	<0.30	19	<0.30	4.5	<15	23	<6.0	<0.30
tert-Butylbenzene	None	None	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10	<5.0	<1.0	<2.0	<0.10
Chloroform	6	0.6	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50 z	<25	<5.0	<10	<0.50
Ethylbenzene	700	140	<0.10	<0.10	<0.10	<1.0	<0.10	<0.50	26	5.6	2.6 e	<0.10
Isopropylbenzene	None	None	<0.10	<0.10	<0.10	9.9	<0.10	3.2	34	11	9.5	<0.10
p-Isopropyltoluene	None	None	<0.20	<0.20	<0.20	24	<0.20	2.0	<10	22	26	<0.20
Naphthalene	40	8	<0.70	<0.70	<0.70	9.8 ez	<0.70	6.1 z	80 ez	57 z	53 z	<0.70
n-Propylbenzene	None	None	<0.30	<0.30	<0.30	14	<0.30	5.9	63	15	14 e	<0.30
Tetrachloroethene	5	0.5	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40	<20	<4.0	<8.0	<0.40
Toluene	1000	200	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10	42	5.1	7.7 e	<0.10
Trichloroethene	5	0.5	<0.30	<0.30	<0.30	<3.0	<0.30	49	<15	<3.0	<6.0	1.9
m & p-Xylene	10000c	1000c	<0.20	<0.20	<0.20	3.8 e	<0.20	2.1 e	110	21	18	<0.20
o-Xylene	10000c	1000c	<0.10	<0.10	<0.10	<1.0	<0.10	15	300	140	110	<0.10
Total VOCs			0	0	0	480.5	0	154.4	1522	919.7	759.8	1.9

TABLE 4

**2000 Groundwater Monitoring Analytical Results
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin**

Sample ID	ES Mar-00	PAL Mar-00	W29	W32	W36	W36 Dup	W39	W41	Field Blank 2	Trip Blank	Blank 01
INDICATORS											
Total Chloride (mg/L)	250	125	98.7	14.9	136	130	168	248	<0.1	NA	<0.1
Ammonia Nitrogen Total (mg/L)	None	None	<0.02	1.02	<0.02	<0.02	<0.02	0.290	<0.02	NA	<0.02
Nitrate + Nitrite Nitrogen (mg/L)	10	2	1.04	<0.08	3.05	2.71	1.40	0.550	<0.08	NA	<0.08
Total Mercury	2	0.2	0.21	<0.16	1.9	7.0	3.2	0.22 e	<0.16	NA	<0.16
TPH as Mineral Spirits	None	None	<500	<500	1300	1300	240,000	11000	<500	NA	<500
PHENOLS											
2-Chlorophenol	None	None	<3.0	<3.0	130 z	130 z	10,000	<150	<3.0	NA	<3.0
Phenol	6000	1200	<3.0	<3.0	63	61	13,000	320	<3.0	NA	<3.0
2-Methylphenol	None	None	<3.0	<3.0	32	32	4,200 z	<150	<3.0	NA	<3.0
2-Nitrophenol	None	None	<3.0	<3.0	10	9.5	5,200 z	<150	<3.0	NA	<3.0
3 & 4-Methylphenol	None	None	<3.0	<3.0	53 z	52 z	8,900 z	170 z	<3.0	NA	<3.0
2,4-Dimethylphenol	None	None	<3.0	<3.0	4.6	4.9	<1500	<150	<3.0	NA	<3.0
2,4-Dichlorophenol	None	None	<3.0	<3.0	12	13	3,200	<150	<3.0	NA	<3.0
2,6-Dichlorophenol	None	None	<3.0	<3.0	13	13	3,900 z	<150	<3.0	NA	<3.0
2,4,6-Trichlorophenol	None	None	<3.0	<3.0	<3.0	<3.0	<1500	<150	<3.0	NA	<3.0
4-Chloro-3-methylphenol	None	None	<3.0	<3.0	3.3	<3.0	<1500	<150	<3.0	NA	<3.0
2,4,5-Trichlorophenol	None	None	<3.0	<3.0	<3.0	<3.0	<1500	330	<3.0	NA	<3.0
2,4-Dinitrophenol	None	None	<3.0	<3.0	<3.0	<3.0	<1500	250	<3.0	NA	<3.0
2,3,4,6-Tetrachlorophenol	None	None	<3.0	<3.0	<3.0	<3.0	<1500	<150	<3.0	NA	<3.0
4,6-Dinitro-2-methylphenol	None	None	<3.0	<3.0	<3.0	<3.0	<1500	<150	<3.0	NA	<3.0
Pentachlorophenol	1	0.1	19	<3.0	74	56	3,300	3500	4.1	NA	3.2
4-Nitrophenol	None	None	6.2 bz	4.2 bz	9.0 bz	9.0 bz	3,300 bz	240 bz	3.2 bz	NA	3.7
Total Phenols			25.2	4.2	403.9	380.4	55000	4810	7.3	NA	6.9

TABLE 4

**2000 Groundwater Monitoring Analytical Results
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin**

Sample ID	ES Mar-00	PAL Mar-00	W29	W32	W36	W36 Dup	W39	W41	Field Blank 2	Trip Blank	Blank 01
VOLATILE ORGANICS											
1,2,4-Trimethylbenzene	480 a	96 a	<0.20	<0.20	16	14	780	250	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	70	7	<0.40	<0.40	<0.40	<0.40	<20	<4.0	<0.40	<0.40	<0.40
1,3,5-Trimethylbenzene	480 a	96 a	<0.30	<0.30	7.5	4.8	470	140	<0.30	<0.30	<0.30
Benzene	5	0.5	<0.10	<0.10	<0.10	<0.10	<5.0	<1.0	<0.10	<0.10	<0.10
n-Butylbenzene	None	None	<0.40	<0.40	8.5	5.7	250	190	<0.40	<0.40	<0.40
sec-Butylbenzene	None	None	<0.30	<0.30	3.8	2.8	79	47	<0.30	<0.30	<0.30
tert-Butylbenzene	None	None	<0.10	<0.10	1.7	<0.10	<5.0	<1.0	<0.10	<0.10	<0.10
Chloroform	6	0.6	<0.50	<0.50	4.4 z	5.1	<25	<5.0	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.10	<0.10	<0.10	<0.10	<5.0	<1.0	<0.10	<0.10	<0.10
Isopropylbenzene	None	None	<0.10	<0.10	1.6	1.5	25	22	<0.10	<0.10	<0.10
p-Isopropyltoluene	None	None	<0.20	<0.20	3.1	2.3	78	40	<0.20	<0.20	<0.20
Naphthalene	40	8	<0.70	<0.70	1.2 ez	2.3 ez	84 ez	19 ez	<0.70	<0.70	<0.70
n-Propylbenzene	None	None	<0.30	<0.30	3.9	2.7	41 e	32	<0.30	<0.30	<0.30
Tetrachloroethene	5	0.5	<0.40	<0.40	<0.40	<0.40	<20	<4.0	<0.40	<0.40	<0.40
Toluene	1000	200	<0.10	<0.10	<0.10	<0.10	18 e	4.0	<0.10	<0.10	<0.10
Trichloroethene	5	0.5	<0.30	<0.30	3.4	4.1	<15	<3.0	<0.30	<0.30	<0.30
m & p-Xylene	10000c	1000c	<0.20	<0.20	0.54 e	0.64 e	87	11	<0.20	<0.20	<0.20
o-Xylene	10000c	1000c	<0.10	<0.10	<0.10	3.1	230	69	<0.10	<0.10	<0.10
Total VOCs			0	0	55.64	49.04	2142	824	0	0	0

NOTES:

Units are in ug/L unless otherwise noted

a ES and PAL for Trimethylbenzenes (1,2,4- and 1,3,5 - combined)**b** Analyte detected in associated Method Blank**c** ES and PAL for Xylene includes meta-, ortho-, and para- (The PAL has been set at a concentration that is intended to address taste and odor concerns associated with this substance).**e** Indicates estimated value between LOD and LOQ**z** Calibration criteria exceeded

10	WI NR 140.10 Preventative Action Limit (PAL) exceedance
10	WI NR 140.10 Enforcement Standard (ES) exceedance

TABLE 5

**2000 Extraction Well Product Removal
WAULECO, INC. - Wausau Facility
Wausau, Wisconsin**

Extraction Well ID	January	February	March	April	May	June	July	August	Sept.	October	November	December	Total
PW04	5.1	3.0	24.0	10.2	11.9	10.2	1.7	---	---	---	---	---	66.1
PW05	---	---	---	---	---	---	---	---	---	---	---	---	0.0
PW07	---	5.0	2.0	---	3.4	3.4	---	---	---	---	---	---	13.8
PW09	---	3.0	---	---	---	---	---	---	---	---	---	---	3.0
PW10	---	3.0	---	---	---	---	---	---	---	---	---	---	3.0
PW11	590.8	630.0	282.0	116.7	158.6	395.5	319.8	87.0	61.4	47.6	1.7	6.8	2697.9
PW12	---	---	---	---	---	---	---	---	---	---	---	---	0.0
PW13	144.2	980.0	363.0	371.7	148.3	45.9	30.6	8.5	6.8	17.0	1.7	46.4	2164.1
PW15	---	---	---	---	---	---	---	---	---	---	---	---	0.0
PW16	---	---	---	---	---	---	---	---	---	---	---	---	0.0
PW17	45.9	77.0	120.0	102.4	86.8	27.2	6.8	11.9	6.8	5.1	---	---	489.9
PW18	478.5	1789.0	2004.0	1642.6	1737.2	1015.0	852.1	365.5	127.2	75.2	58.0	200.8	10345.1
PW19	17.0	---	---	---	---	5.1	3.4	---	---	---	---	---	25.5
PW20	102.6	396.0	430.0	361.1	314.8	211.6	68.3	39.1	10.2	3.4	6.8	---	1943.9
PW21	---	87.0	120.0	109.7	87.1	30.6	28.9	---	1.7	1.7	---	---	466.7
PW22	---	---	---	---	---	---	---	---	---	---	---	---	0.0
PW23	---	22.0	37.0	1.7	18.7	5.1	1.7	---	---	---	---	---	86.2
PW24	61.5	342.0	765.0	511.7	447.1	328.0	180.1	83.8	161.6	80.5	23.8	25.5	3010.6
PW25	503.4	1505.0	1307.0	1092.0	626.7	171.9	158.3	159.4	120.2	114.8	142.2	517.6	6418.5
PW26	338.7	475.0	336.0	307.9	404.0	92.5	93.7	92.4	47.6	85.6	103.0	220.1	2596.5
PW27	59.5	165.0	102.0	86.7	49.3	27.2	49.3	10.2	13.6	42.7	36.1	451.1	1092.7
PW28	---	---	---	---	---	---	---	---	---	---	---	---	0.0
PW29	30.6	9.0	32.0	5.1	---	13.6	17.0	13.6	---	---	1.7	---	122.6
Total	2377.8	6485.0	5924.0	4719.5	4093.9	2382.8	1811.7	871.4	557.1	473.6	375.0	1468.3	31540.1

NOTES:

--- Indicates wells not in operation due to insufficient product thickness

FIGURE 1
Average Water Level Deviation

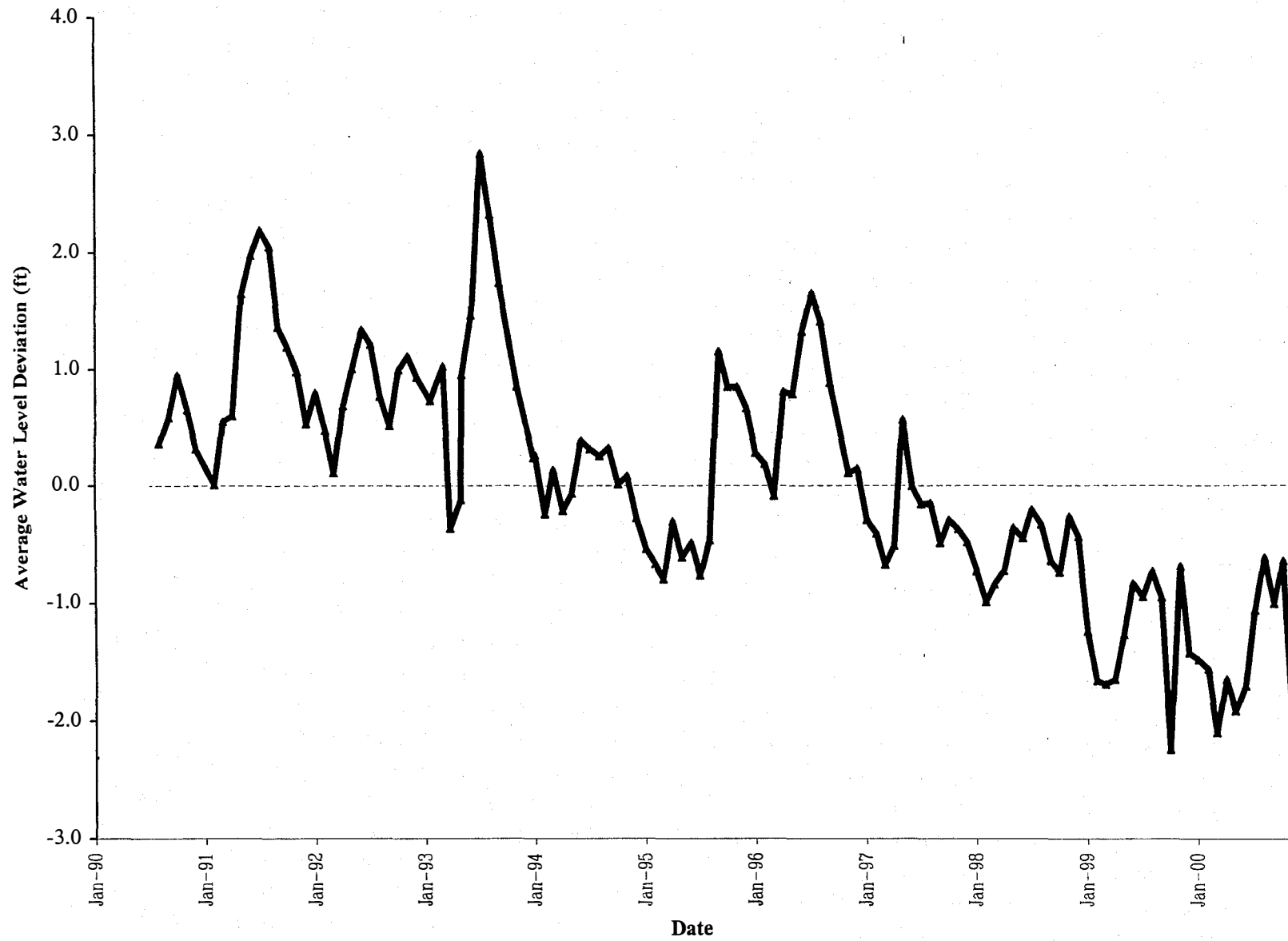
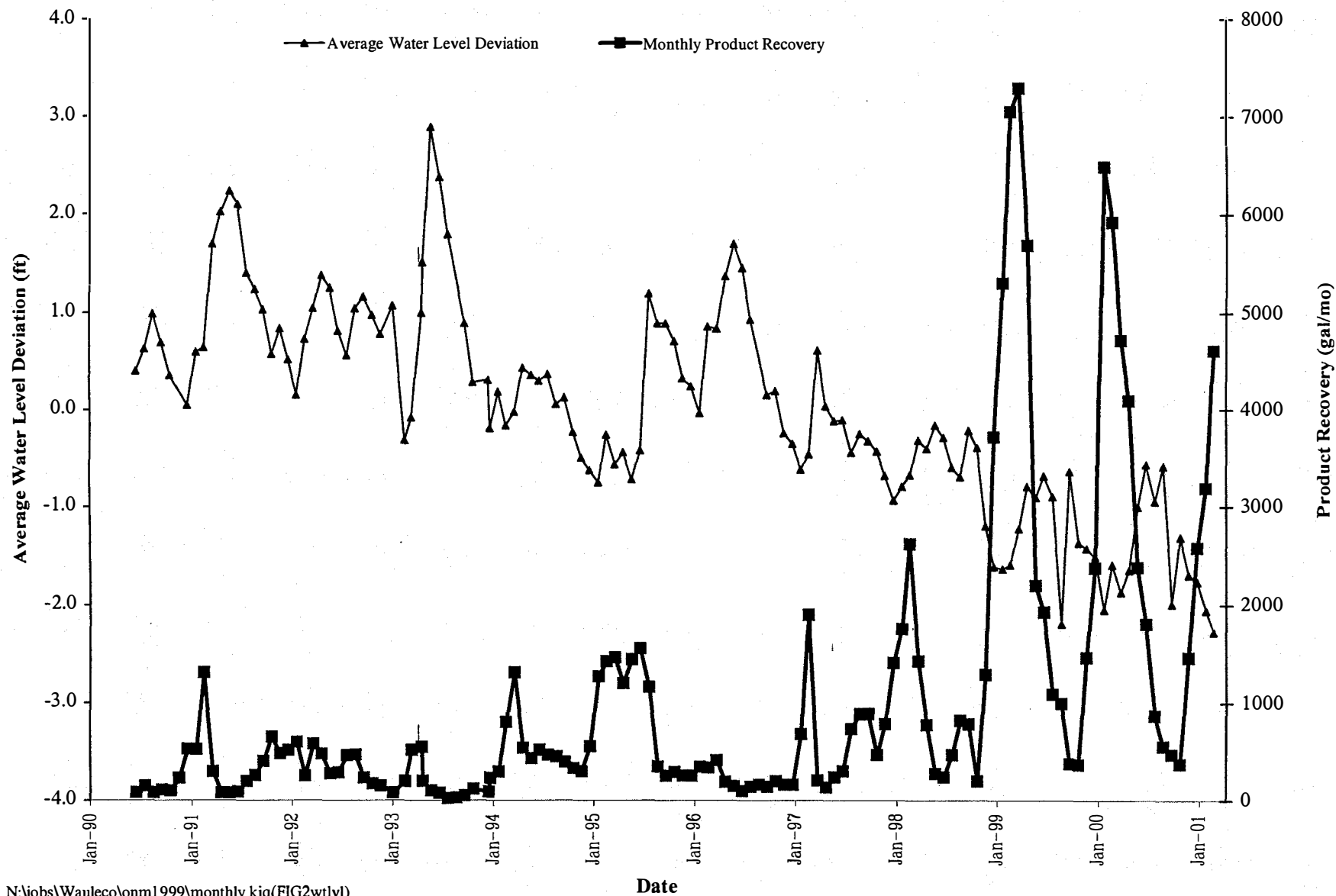


FIGURE 2
Average Water Level Deviation and Product Recovery Rates Versus Time



N:\jobs\Wauleco\onm1999\monthly kjq(FIG2wtl\l)
 2082336.06160101

Management Review

Other

Technical Review

Project Manager

4-30-01

4-30-01

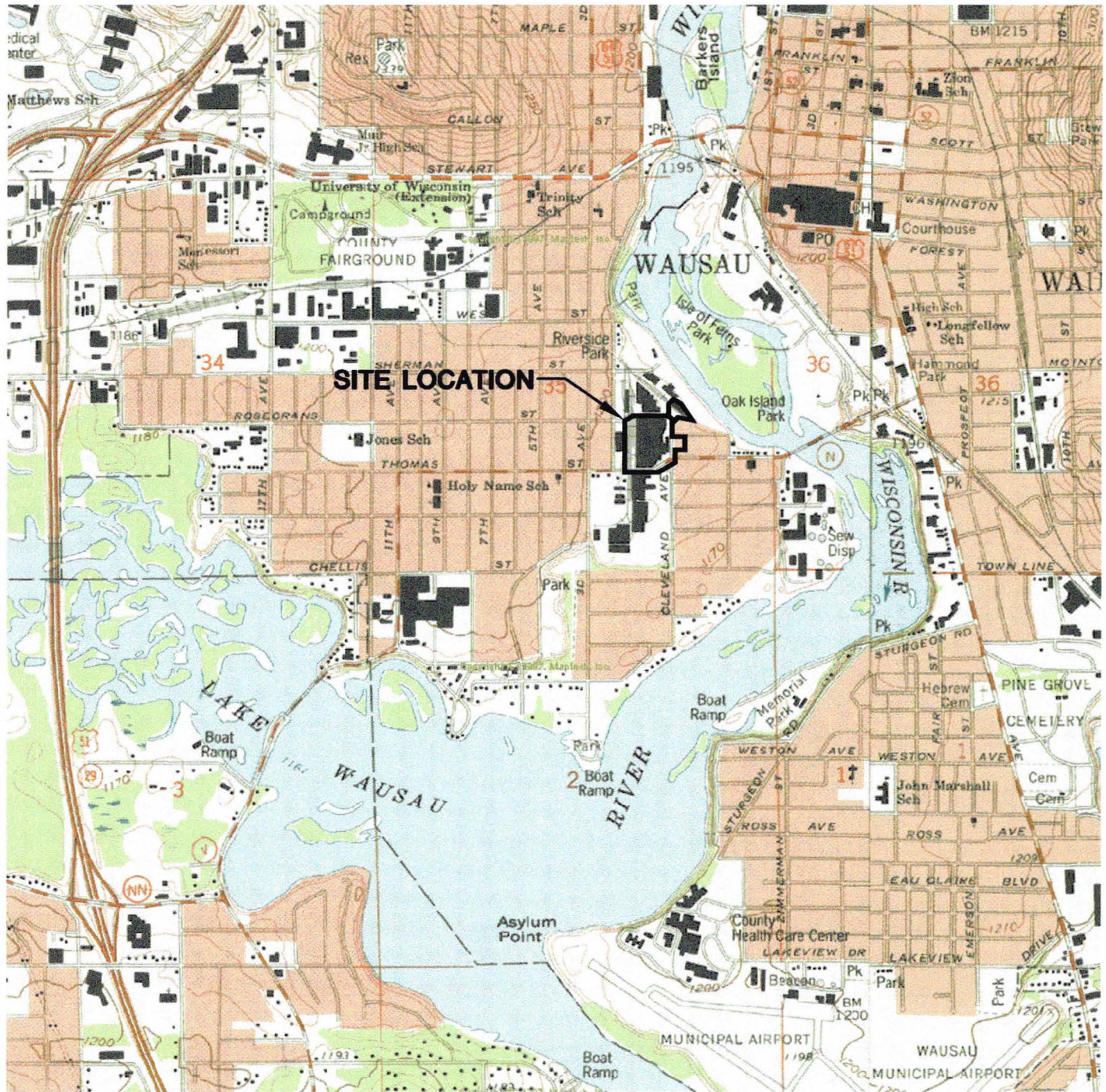
Graphic Standards

Lead Professional

QUALITY CONTROL

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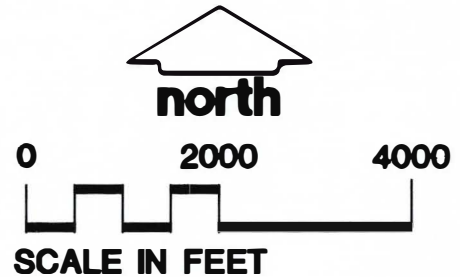
T28N | T29N

**NOTE**

BASE MAP DEVELOPED FROM THE WAUSAU WEST AND WASAU EAST, WISCONSIN 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAPS, DATED 1993.



QUADRANGLE LOCATION

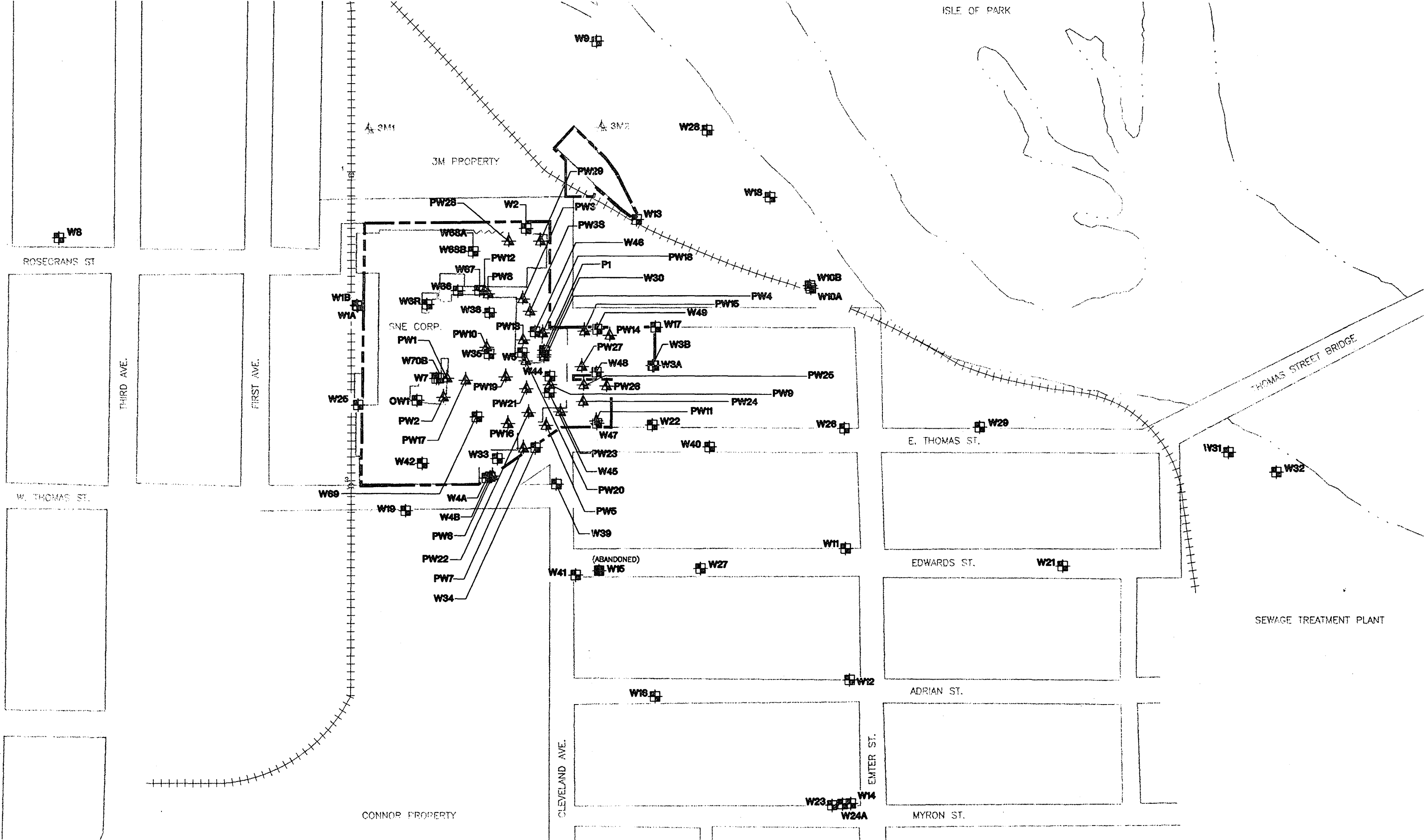
**Figure 3**

Developed By	LAS	Drawn By	LCL
Approved By	Douglas J. Bach	Date	5-15-01
Reference			
Revisions			

SITE LOCATION MAP

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO, INC.
PART OF SECTION 35, T29, R83
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101 **A1**
MONTGOMERY WATSON



- LEGEND**
- 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. EXTRACTION WELLS PW28 AND PW29 INSTALLED BY BOART LONGYEAR ON SEPTEMBER 28 & 29, 1999, UNDER THE SUPERVISION OF MONTGOMERY WATSON.

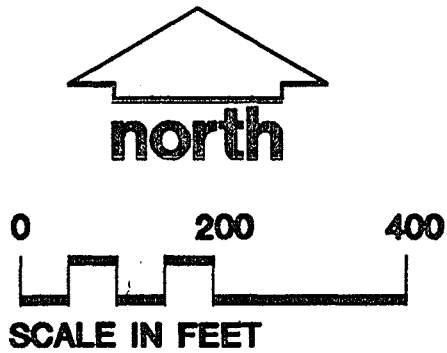


Figure 4

SITE FEATURES MAP	Developed By	Drawn By	TMS
	Approved By	Gate	S-15-01
	Reference	1242057.04160101-B27	
	Revisions		
ANNUAL GROUNDWATER MONITORING REPORT WAULECO INC. PART OF SECTION 35, T29N, R8E WAUSAU, WISCONSIN			
Drawing Number 2082336 06160101		B1	
MONTGOMERY WATSON			

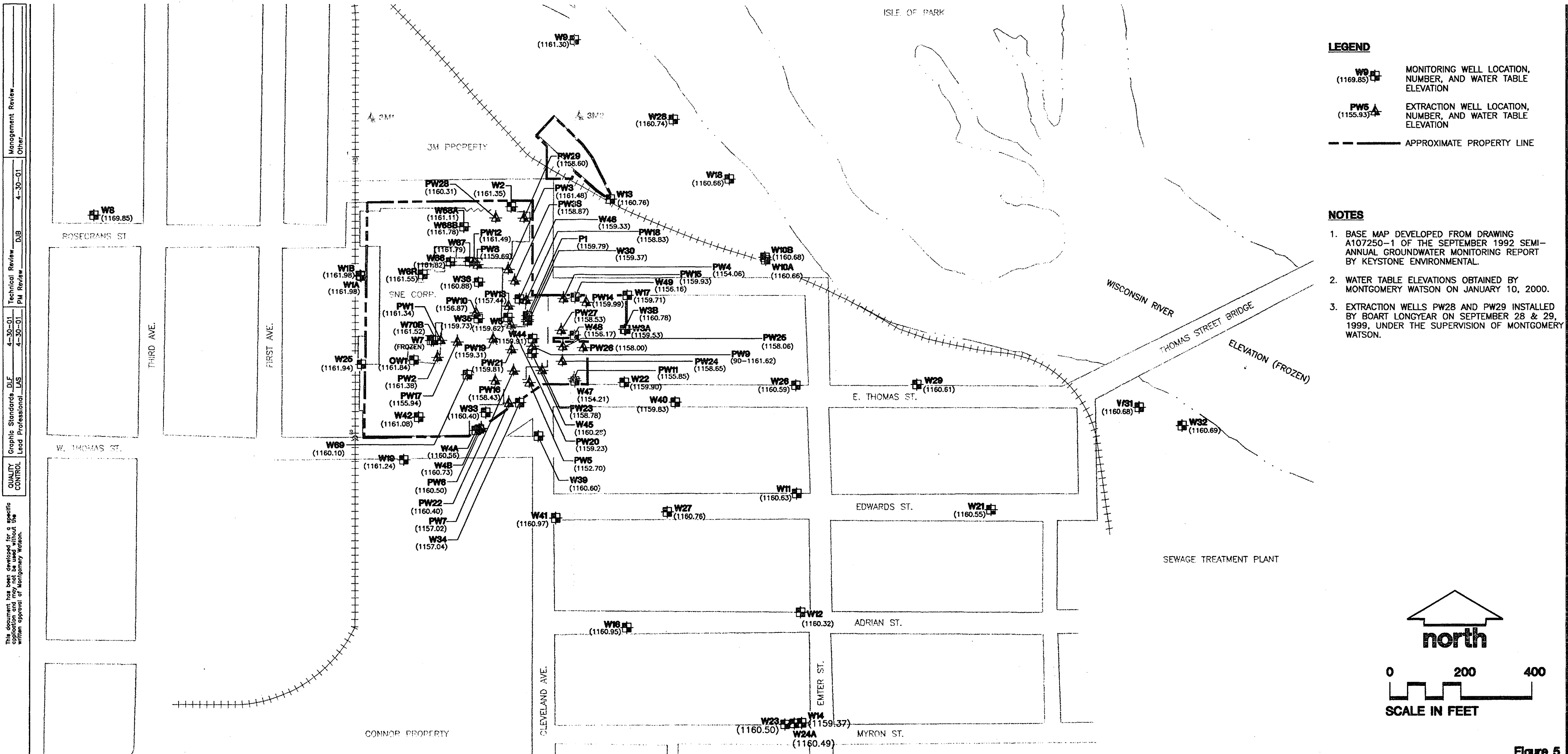
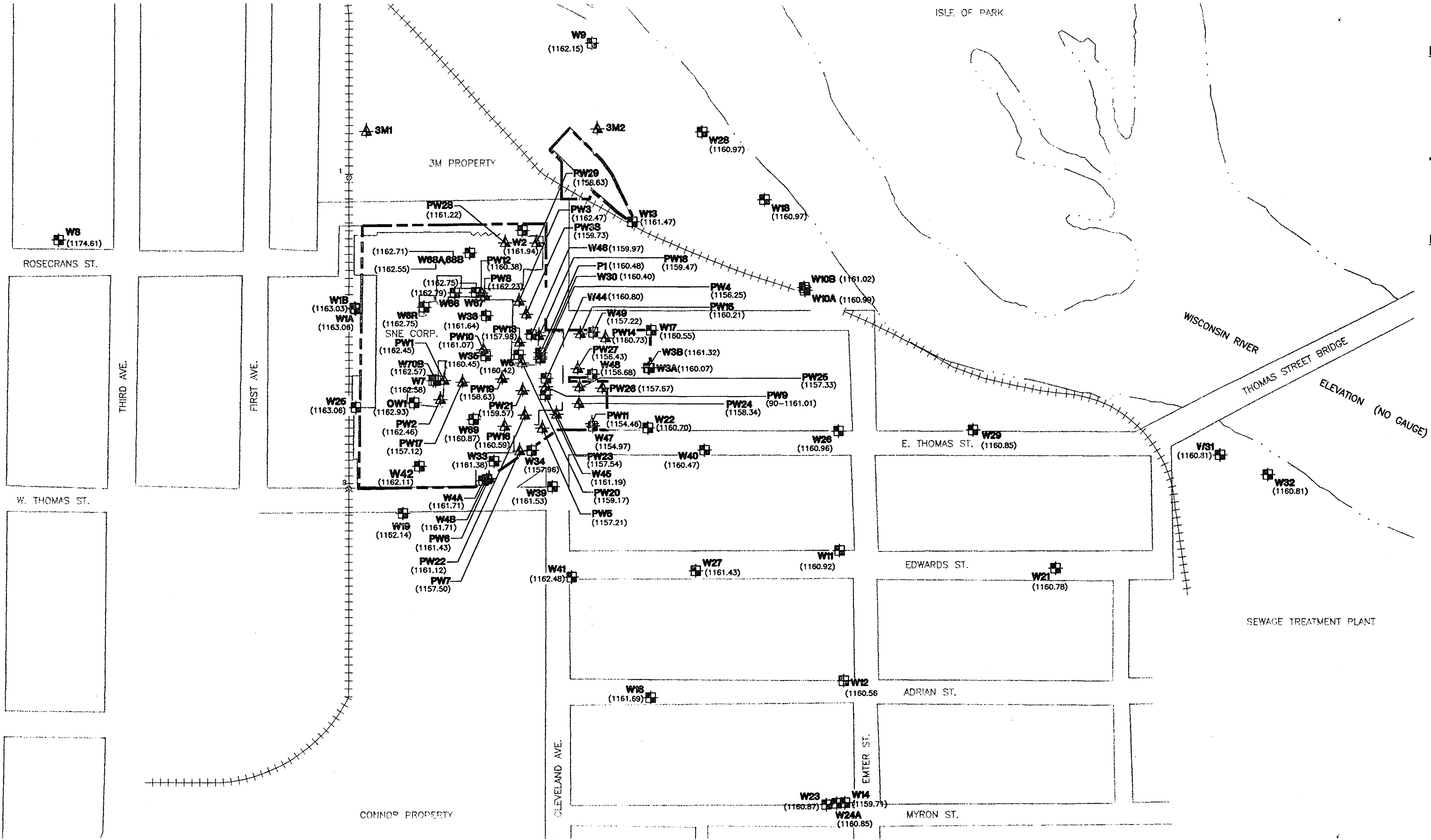


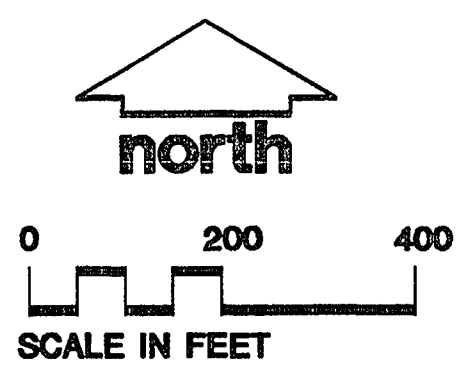
Figure 5

Management Review
4-30-01
DJB
4-30-01
Technical Review
4-30-01
PM Review
4-30-01
Graphic Standards
LJS
4-30-01
Lead Professional
LJS
4-30-01
QUALITY CONTROL
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- LEGEND**
- W8 (1174.61) MONITORING WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
 - PW5 (1157.21) 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 JULY 17, 2000.
 3. EXTRACTION WELLS PW28 AND PW29 INSTALLED BY BOART LONGYEAR ON SEPTEMBER 28 & 29, 1999, UNDER THE SUPERVISION OF MONTGOMERY WATSON.



Developed By IAS
Approved By [Signature]
Date 5.15.01
Reference 1242057.04160101-B13
Revisions

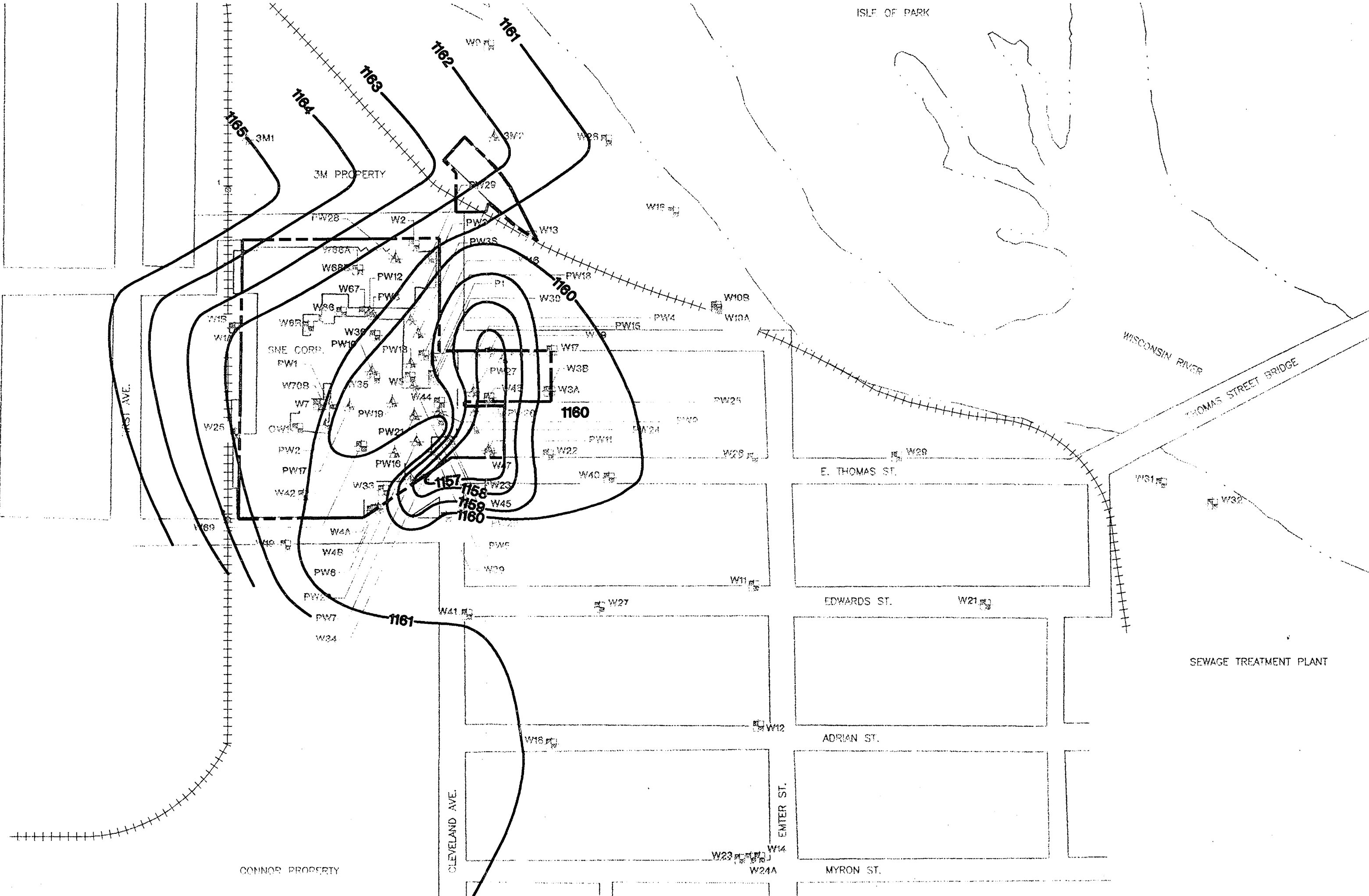
WATER TABLE ELEVATIONS (JULY 17, 2000)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101 **B3**

MONTGOMERY WATSON

Figure 6



- LEGEND**
- W9 [Symbol] MONITORING WELL LOCATION AND NUMBER
 - PW5 [Symbol] EXTRACTION WELL LOCATION AND NUMBER
 - APPROXIMATE PROPERTY LINE
 - 1160— WATER TABLE ELEVATION CONTOUR

- 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 JANUARY 10, 2000.
 3. EXTRACTION WELLS PW28 AND PW29 INSTALLED BY BOART LONGYEAR ON SEPTEMBER 28 & 29, 1999, UNDER THE SUPERVISION OF MONTGOMERY WATSON.
 4. WATER TABLE CONTOURS DETERMINED USING MONITORING WELL WATER TABLE ELEVATIONS.

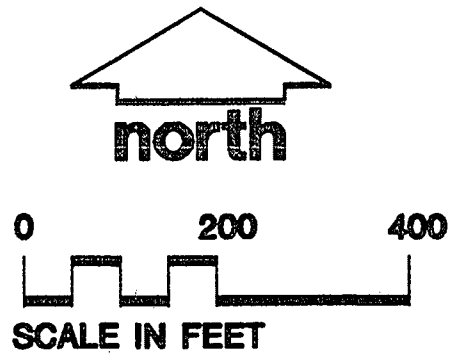


Figure 7

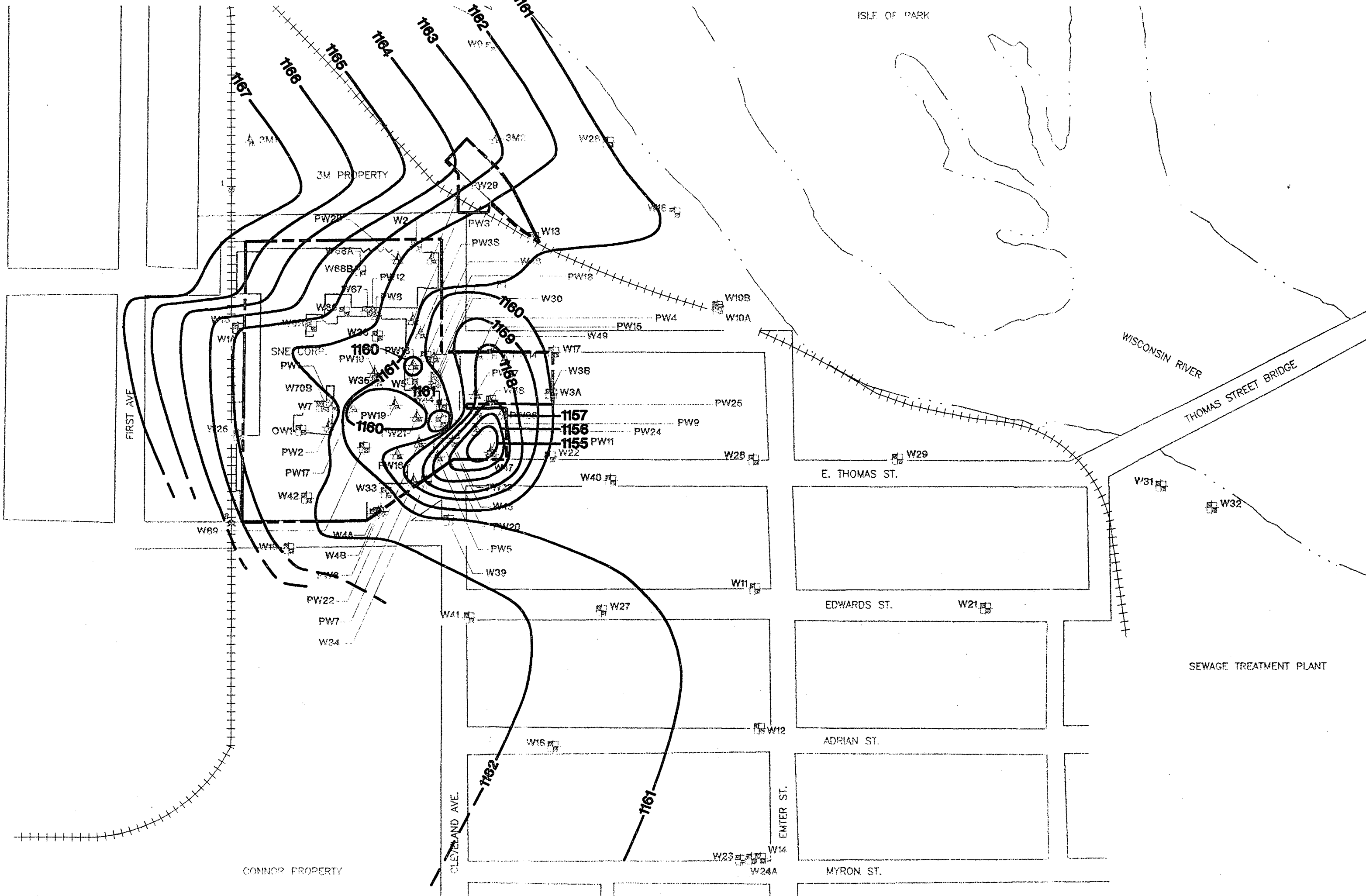
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QUALITY CONTROL

Graphic Standards
Lead Professional

Technical Review
PM Review

Management Review
Other



LEGEND

- W8 MONITORING WELL LOCATION AND NUMBER
- PW5 EXTRACTION WELL LOCATION AND NUMBER
- - - - - APPROXIMATE PROPERTY LINE
- 1160 WATER TABLE CONTOUR (CONTOUR INTERVAL: 1 FT)

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 JULY 17, 2000.
3. EXTRACTION WELLS PW28 AND PW29 INSTALLED BY BOART LONGYEAR ON SEPTEMBER 28 & 29, 1999, UNDER THE SUPERVISION OF MONTGOMERY WATSON.
4. WATER TABLE CONTOURS DETERMINED USING MONITORING WELL WATER TABLE ELEVATIONS.

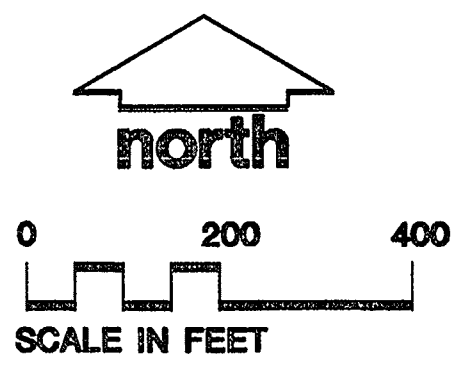


Figure 8

Developed By	WLAS	Drawn By	TMS
Approved By		Date	5-15-01
Reference	1242057.02/180101-B1		
Revisions			

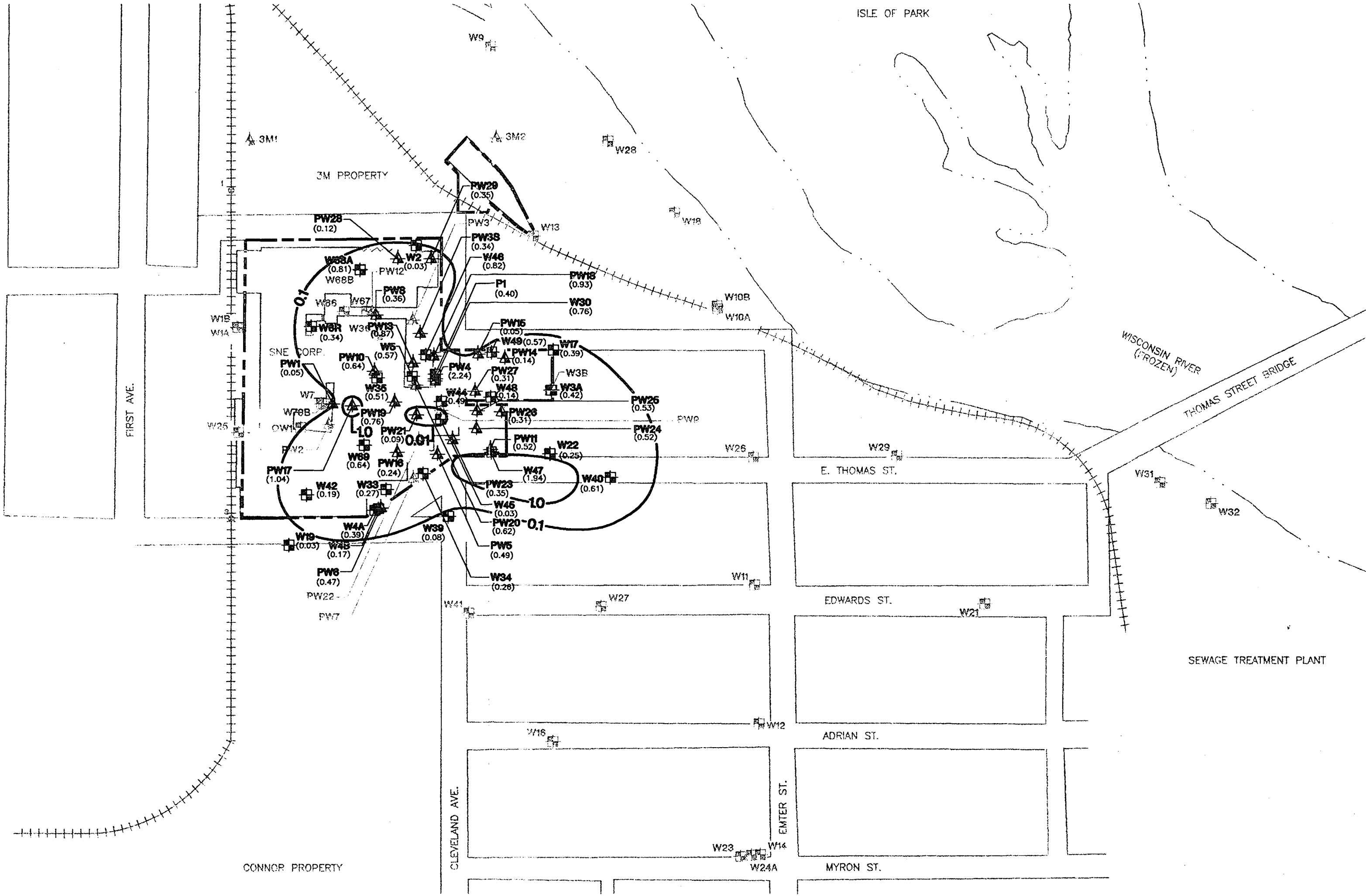
WATER TABLE MAP (JULY 17, 2000)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101 **B5**

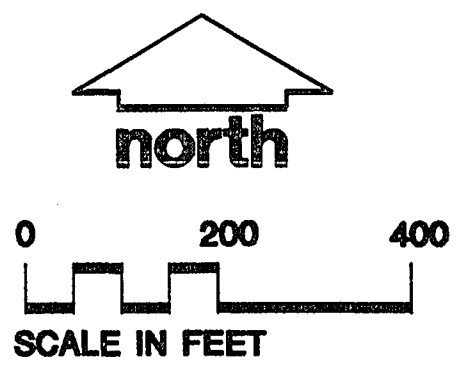
MONTGOMERY WATSON

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QUALITY CONTROL	Graphic Standards, DLF	Technical Review	Management Review
	Lead Professional, LAS	PM Review	Other
	4-30-01	4-30-01	4-30-01
		DJB	



- LEGEND**
- W5 (0.57) MONITORING WELL LOCATION, NUMBER AND PRODUCT THICKNESS (FT.)
 - PW6 (0.47) EXTRACTION WELL LOCATION, NUMBER AND PRODUCT THICKNESS (FT.)
 - APPROXIMATE PROPERTY LINE
 - 10— APPARENT PRODUCT THICKNESS CONTOUR
- NOTES**
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
 2. PRODUCT THICKNESS OBTAINED BY MONTGOMERY WATSON ON JANUARY 10, 2000. (SEE TABLE 3 OF ACCOMPANYING REPORT)



Developed By	LAS	Drawn By	TMS
Approved By	W. Watson	Date	5.15.01
Reference	1242057-04160101-B18		
Revisions			

PRODUCT OIL THICKNESS MAP (JANUARY 10, 2000)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101 **B6**

MONTGOMERY WATSON

Figure 9

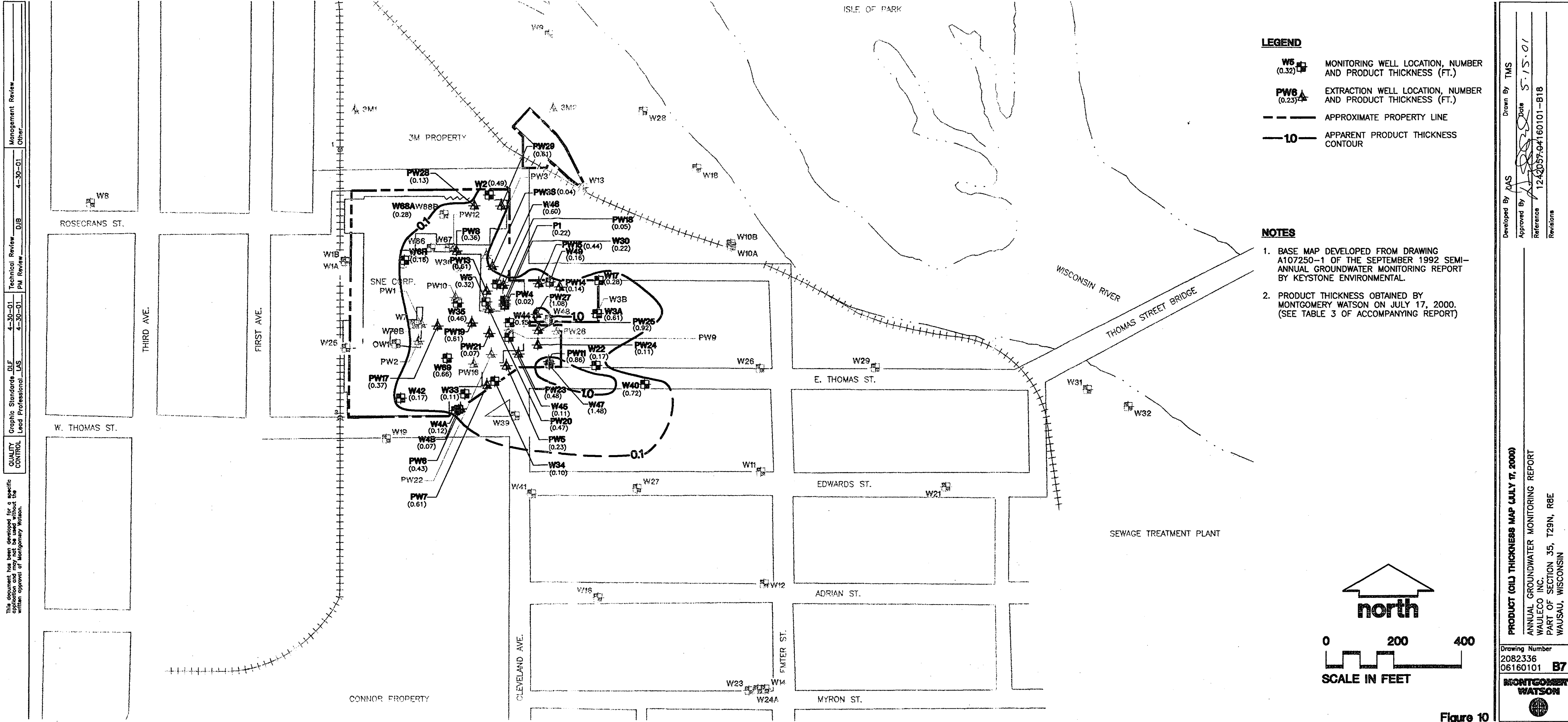
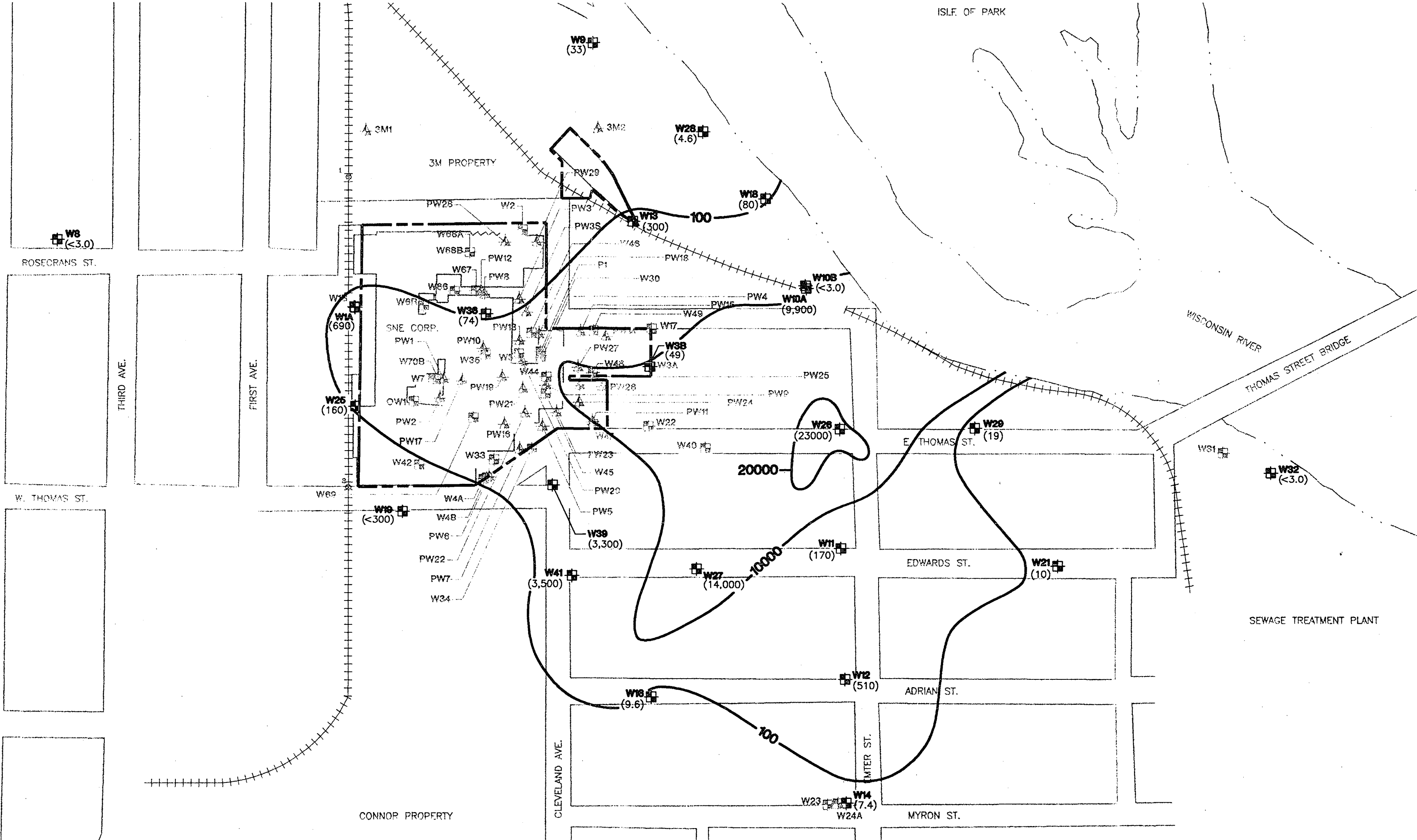


Figure 10



- LEGEND**
- W29 (19) MONITORING WELL LOCATION, NUMBER AND PCP CONCENTRATION (ug/L)
 - PW5 EXTRACTION WELL LOCATION AND NUMBER
 - APPROXIMATE PROPERTY LINE
 - 100 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 ON JULY 18, 2000.
 3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
 4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
 5. PCP CONCENTRATION OF 4.1ug/L WAS DETECTED IN THE FIELD BLANK AND A CONCENTRATION OF 3.2 ug/L WAS DETECTED IN THE 01 BLANK.

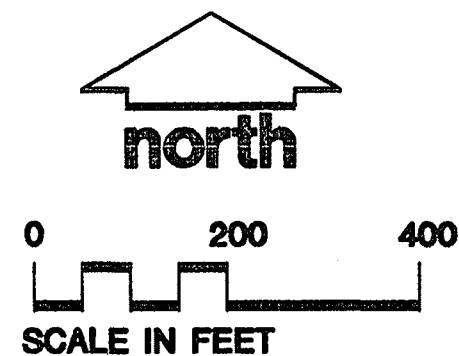
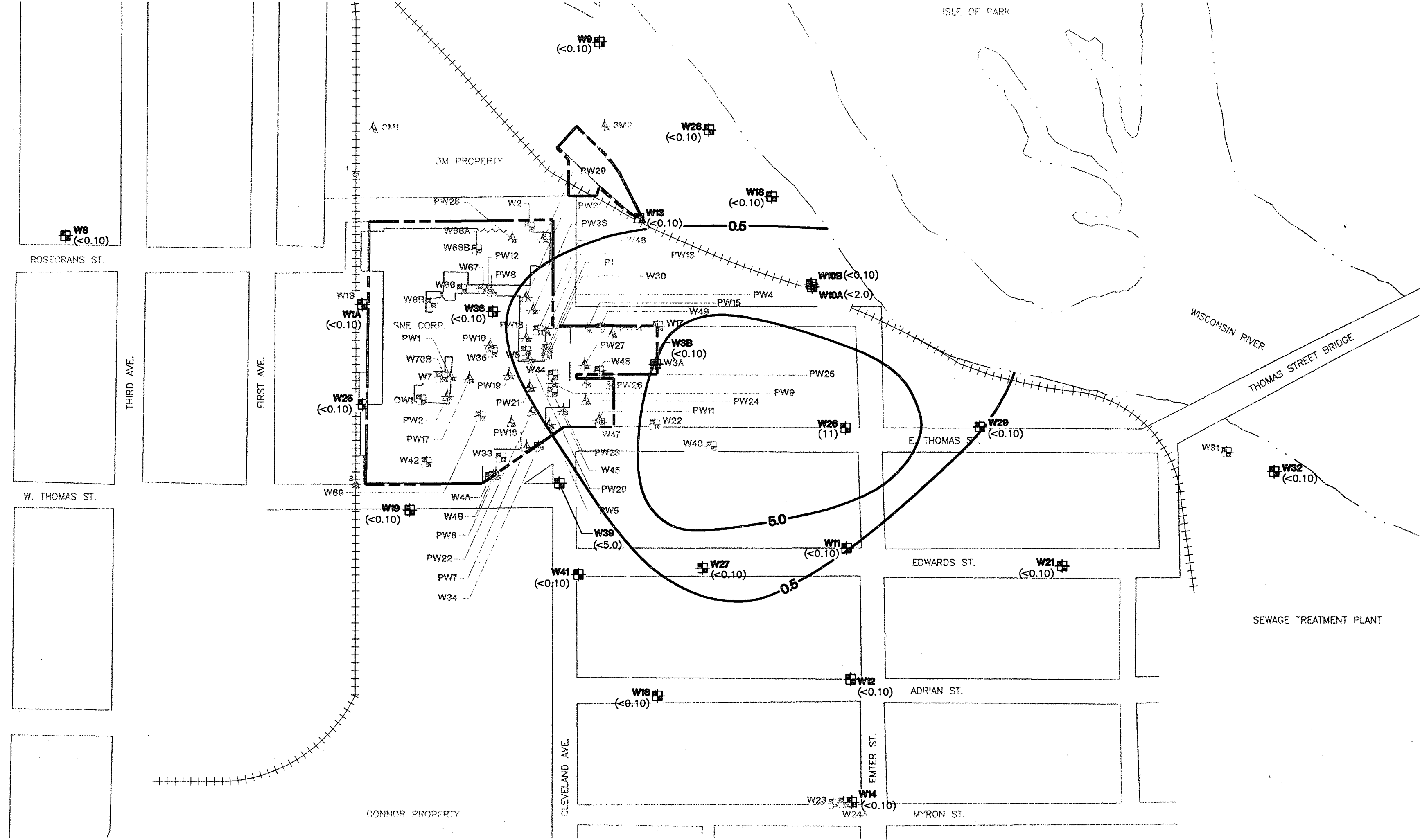


Figure 11

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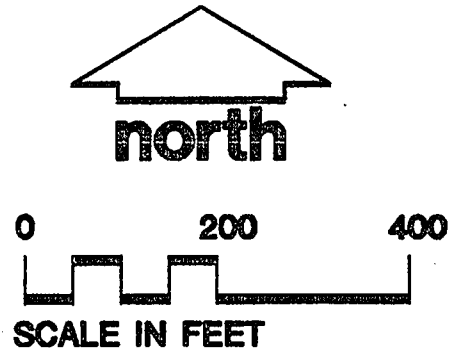
QUALITY CONTROL
Graphic Standards DLF
Lead Professional LAS

Technical Review
4-30-01
PM Review
4-30-01
DUB
Management Review
4-30-01
Other:



- LEGEND**
- Monitoring Well Location, Number and Benzene Concentration (ug/L)
 - Extraction Well Location and Number
 - Approximate Property Line
 - Benzene Isoc concentration Contour (ug/L)

- NOTES**
- Base map developed from drawing A107250-1 of the September 1992 Semi-Annual Groundwater Monitoring Report by Keystone Environmental.
 - Groundwater samples obtained by Montgomery Watson on July 18, 2000.
 - Analyte concentrations obtained from laboratory data by Commonwealth Technology, Inc. (CTI).
 - In well clusters the value from the shallowest well was used to determine isoc concentrations for the analyte.



Developed By: LAS
Approved By: [Signature]
Date: 5.15.01
Reference: 124257.04180101-B1
Revisions:

BENZENE ISOC CONCENTRATION MAP (JULY 18, 2000)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

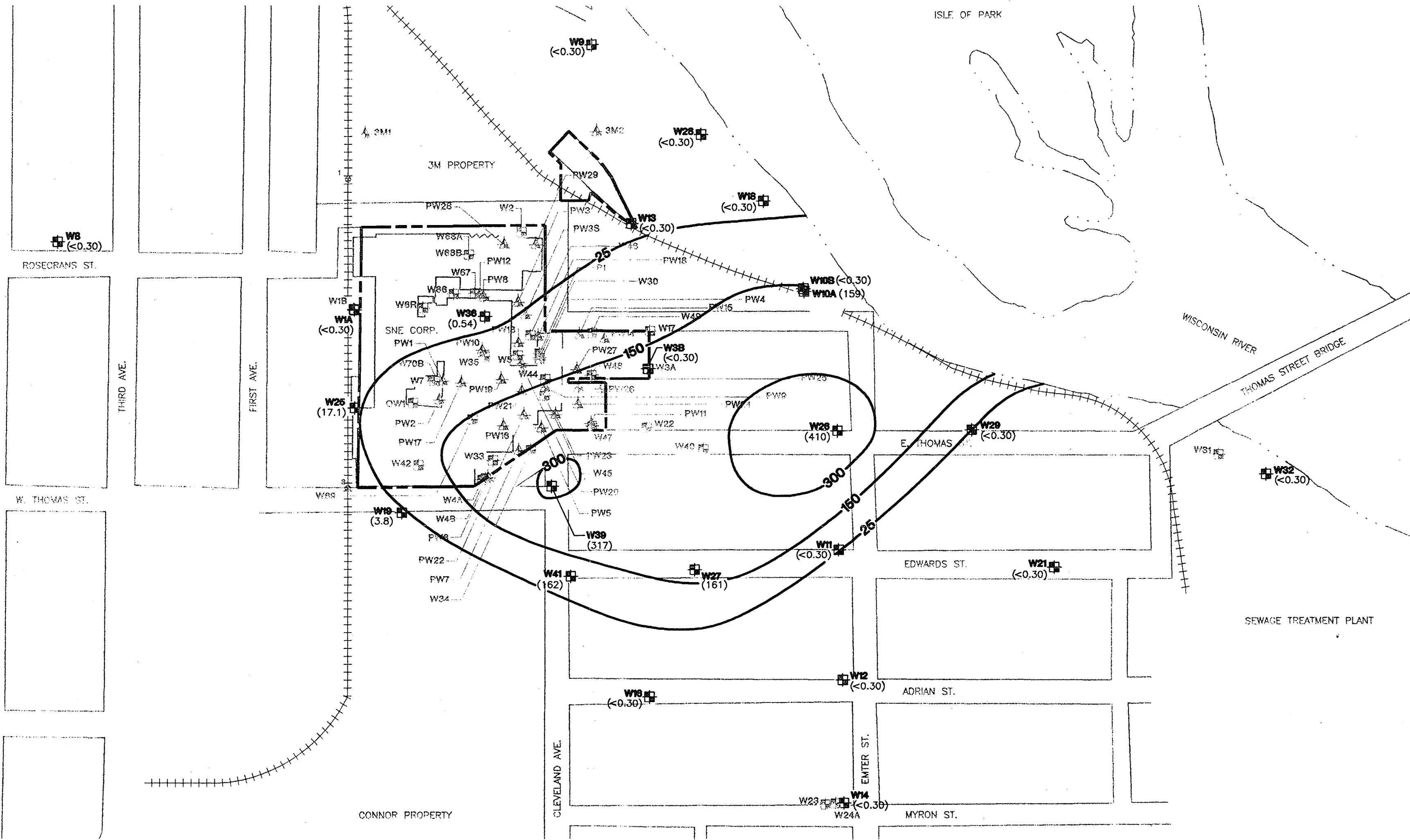
Drawing Number: 2082336
06160101
B9

MONTGOMERY WATSON

Figure 12

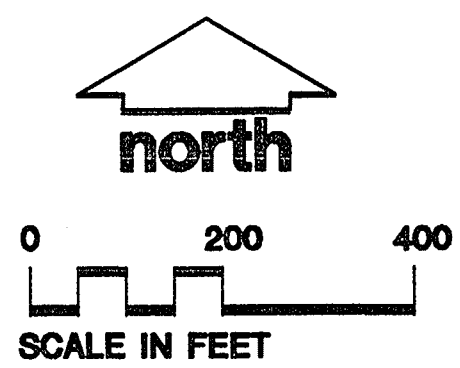
Management Review
4-30-01
DJB
4-30-01
Technical Review
PM Review
4-30-01
4-30-01
Graphic Standards DLF
Lead Professional LAS
QUALITY CONTROL

This document has been developed for a specific project and is not to be used for any other project without the written approval of Montgomery Watson.



- LEGEND**
- W29 (<0.30) MONITORING WELL LOCATION, NUMBER AND TOTAL XYLENE CONCENTRATION (ug/L)
 - PW5 EXTRACTION WELL LOCATION AND NUMBER
 - APPROXIMATE PROPERTY LINE
 - 150 XYLENE 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 ON JULY 18, 2000.
 3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
 4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.

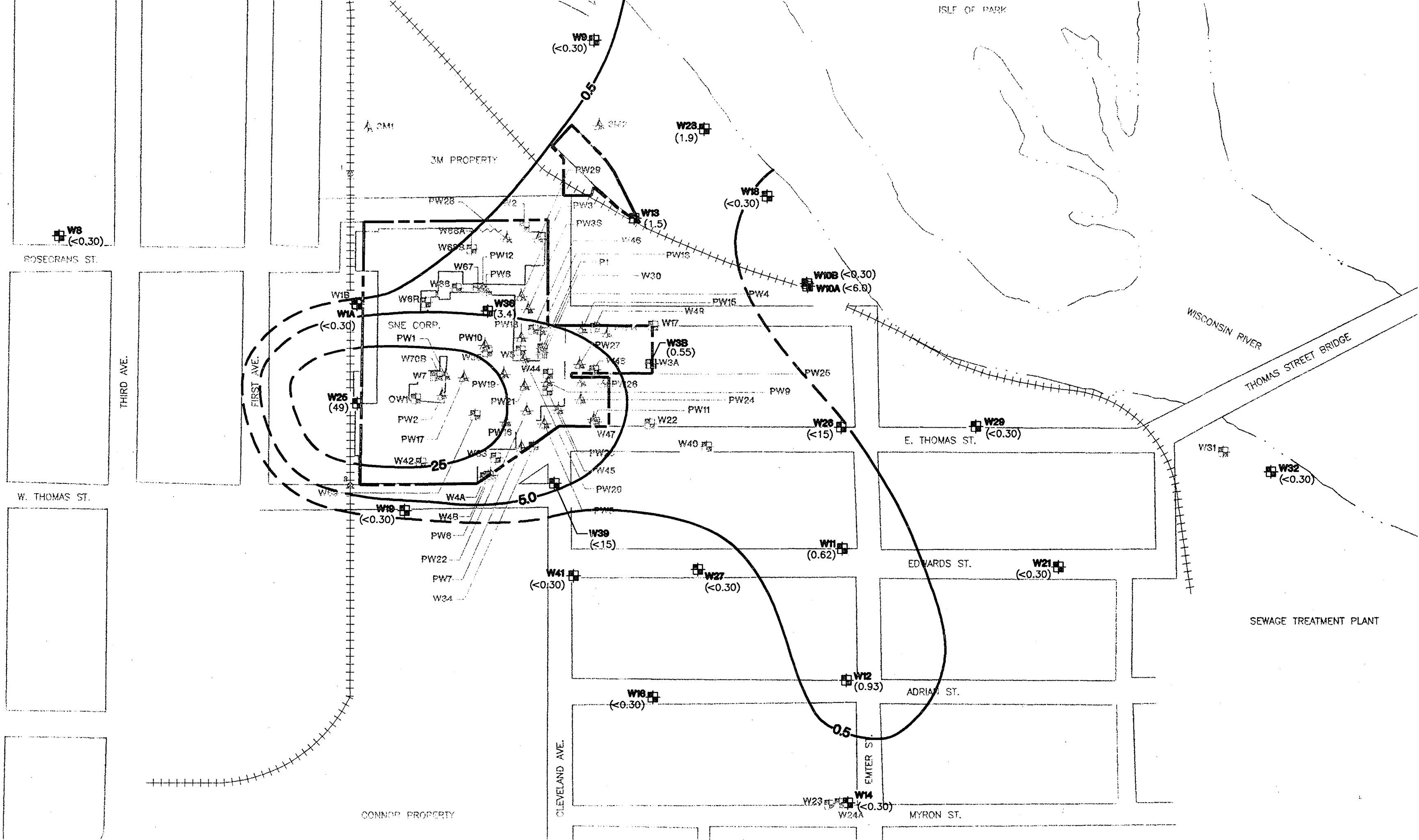


Developed By LAS
Approved By TMS
Date 5-15-01
Reference 1242057.04180101-B1
Revisions

TOTAL XYLENE ISOCONCENTRATION MAP (JULY 18, 2000)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101
B10
MONTGOMERY WATSON

Figure 13



LEGEND

W29 (<0.30) MONITORING WELL LOCATION, NUMBER AND TRICHLOROETHYLENE (TCE) CONCENTRATION (ug/L)

PW5 EXTRACTION WELL LOCATION AND NUMBER

--- APPROXIMATE PROPERTY LINE

5.0 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 ON JULY 18, 2000.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.

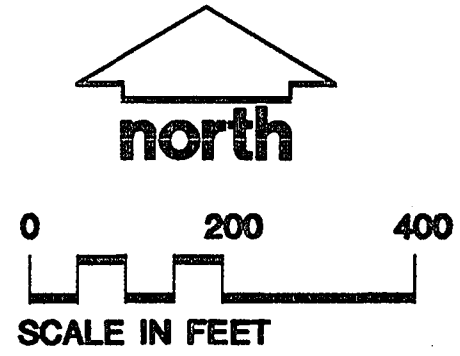


Figure 14

This document has been developed for a specific application and may not be used without the written approval of Montgomery Watson.

QUALITY CONTROL

Graphic Standards DLF
Lead Professional LAS

4-30-01
4-30-01

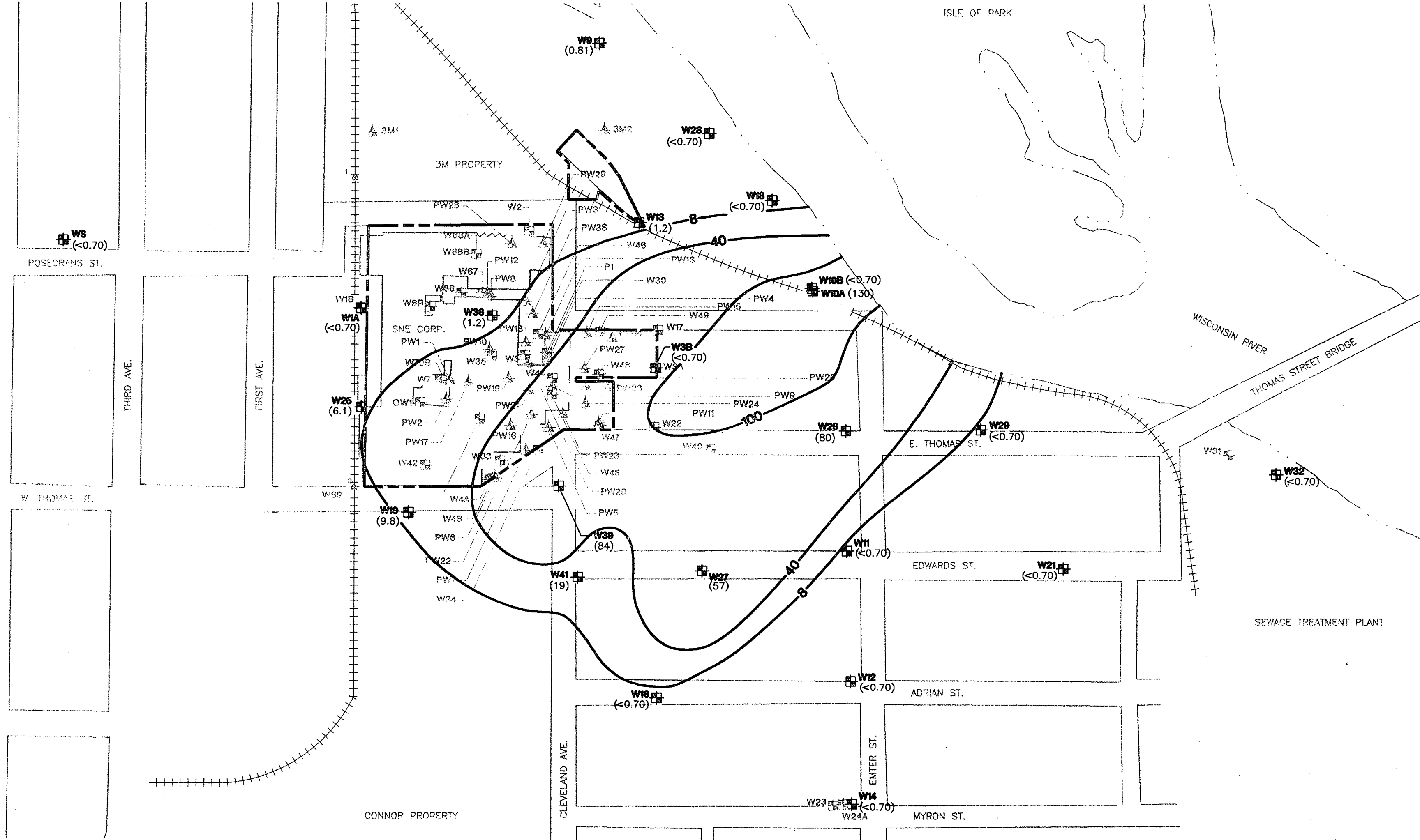
Technical Review
PI Review

DJB

4-30-01

Management Review
Other:

Management Review
Other:



LEGEND

- MONITORING WELL LOCATION, NUMBER AND NAPHTHALENE CONCENTRATION (ug/L)
- EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- NAPHTHALENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

- BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
- GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON ON JULY 18, 2000.
- ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
- IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.

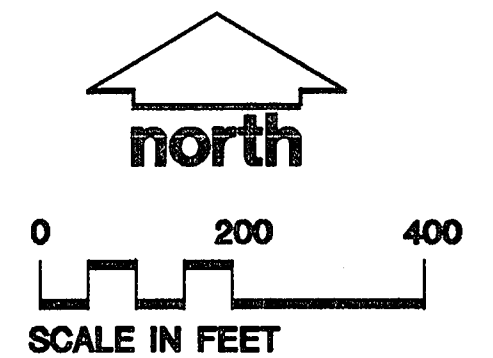


Figure 15

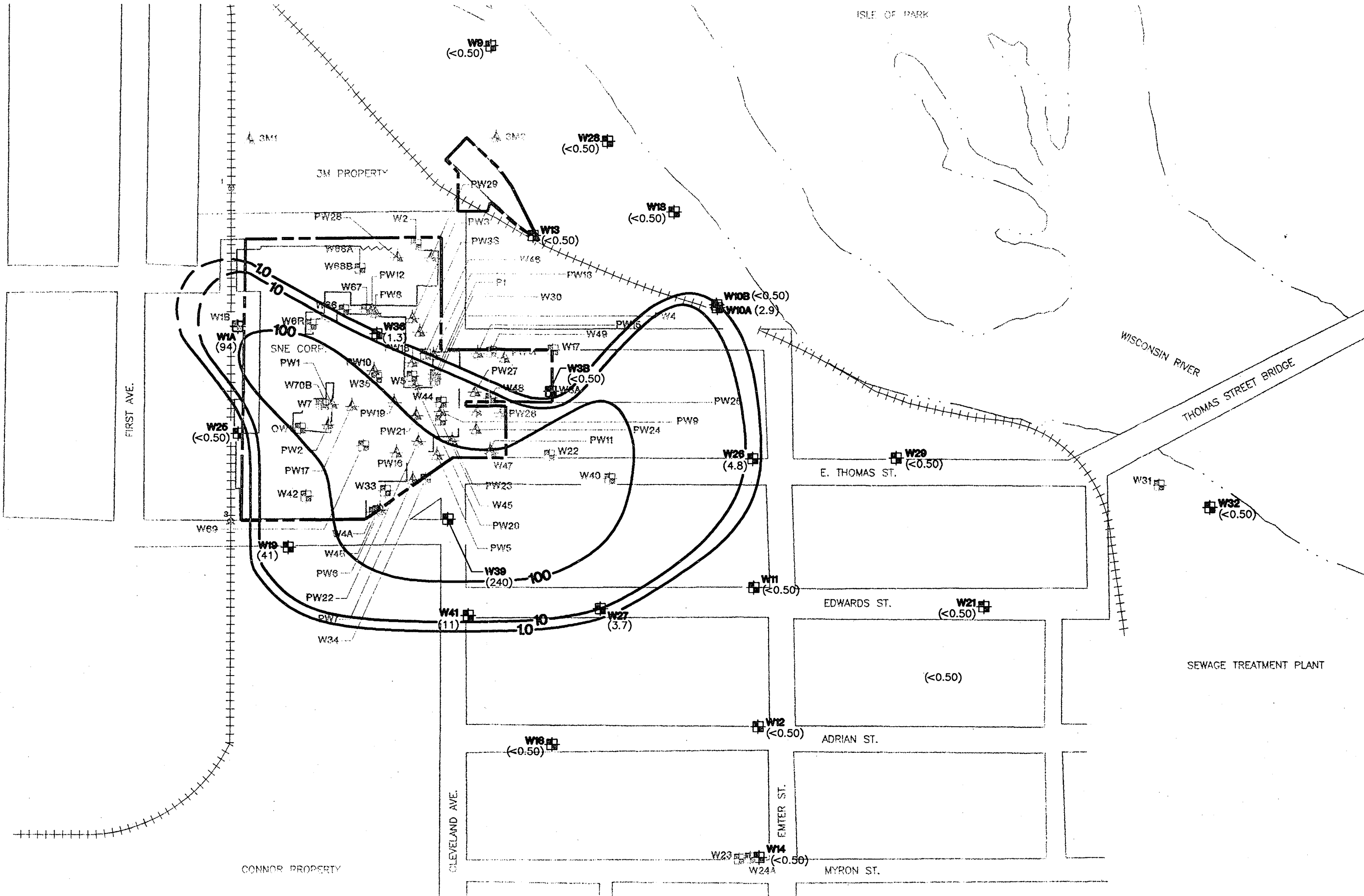
NAPHTHALENE ISOCONCENTRATION MAP (JULY 18, 2000)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101
B12
MONTGOMERY WATSON

Developed By LAS
Approved By
Reference T24257.04180101-B1
Revisions

Drawn By TMS
Date 5-15-01



- LEGEND**
- W29 (<0.50) MONITORING WELL LOCATION, NUMBER AND TPH CONCENTRATION (mg/L)
 - PW5 EXTRACTION WELL LOCATION AND NUMBER
 - APPROXIMATE PROPERTY LINE
 - 10 TPH AS MINERAL SPIRITS 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 ON JULY 18, 2000.
 3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
 4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.

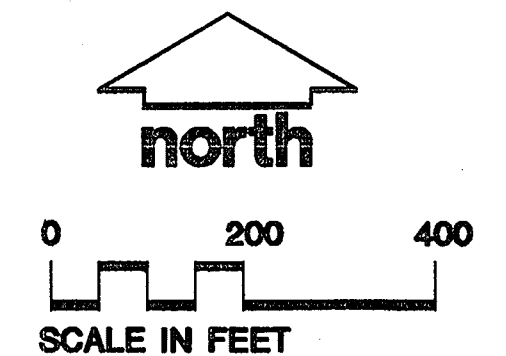
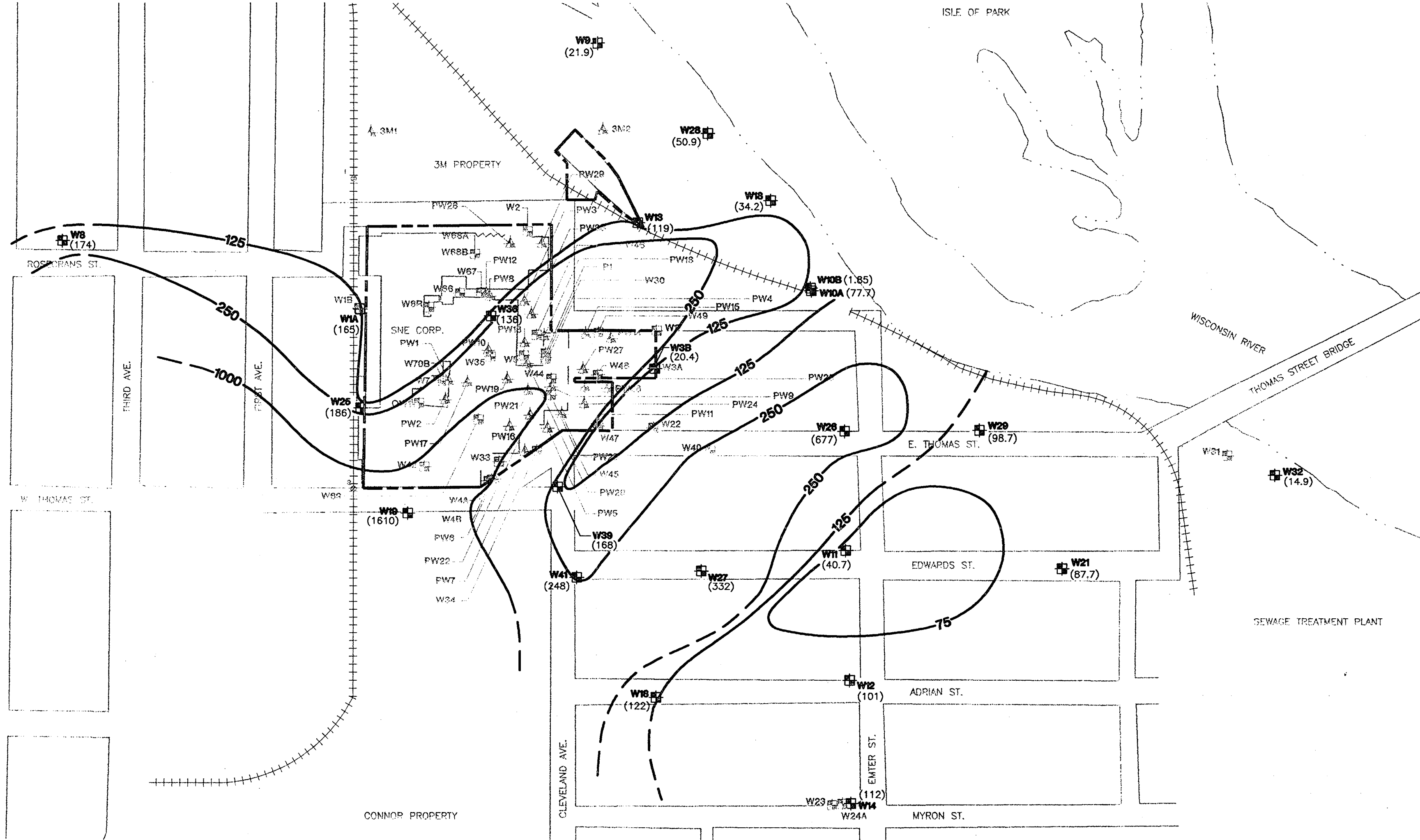


Figure 16



LEGEND

W29 (98.7) MONITORING WELL LOCATION, NUMBER AND CHLORIDE CONCENTRATION (mg/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 ON JULY 18, 2000.
 3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
 4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.

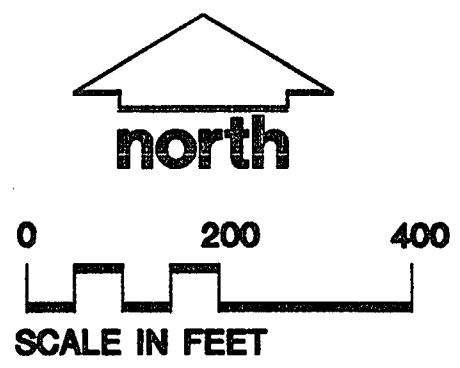


Figure 17

Developed By LAS Drawn By TMS

Approved By [Signature] Date 5.15.01

Reference 1242057.04180101-B1

Revisions

CHLORIDE ISOCONCENTRATION MAP (JULY 18, 2000)

ANNUAL GROUNDWATER MONITORING REPORT

WAULECO INC.

PART OF SECTION 35, 29N, R8E

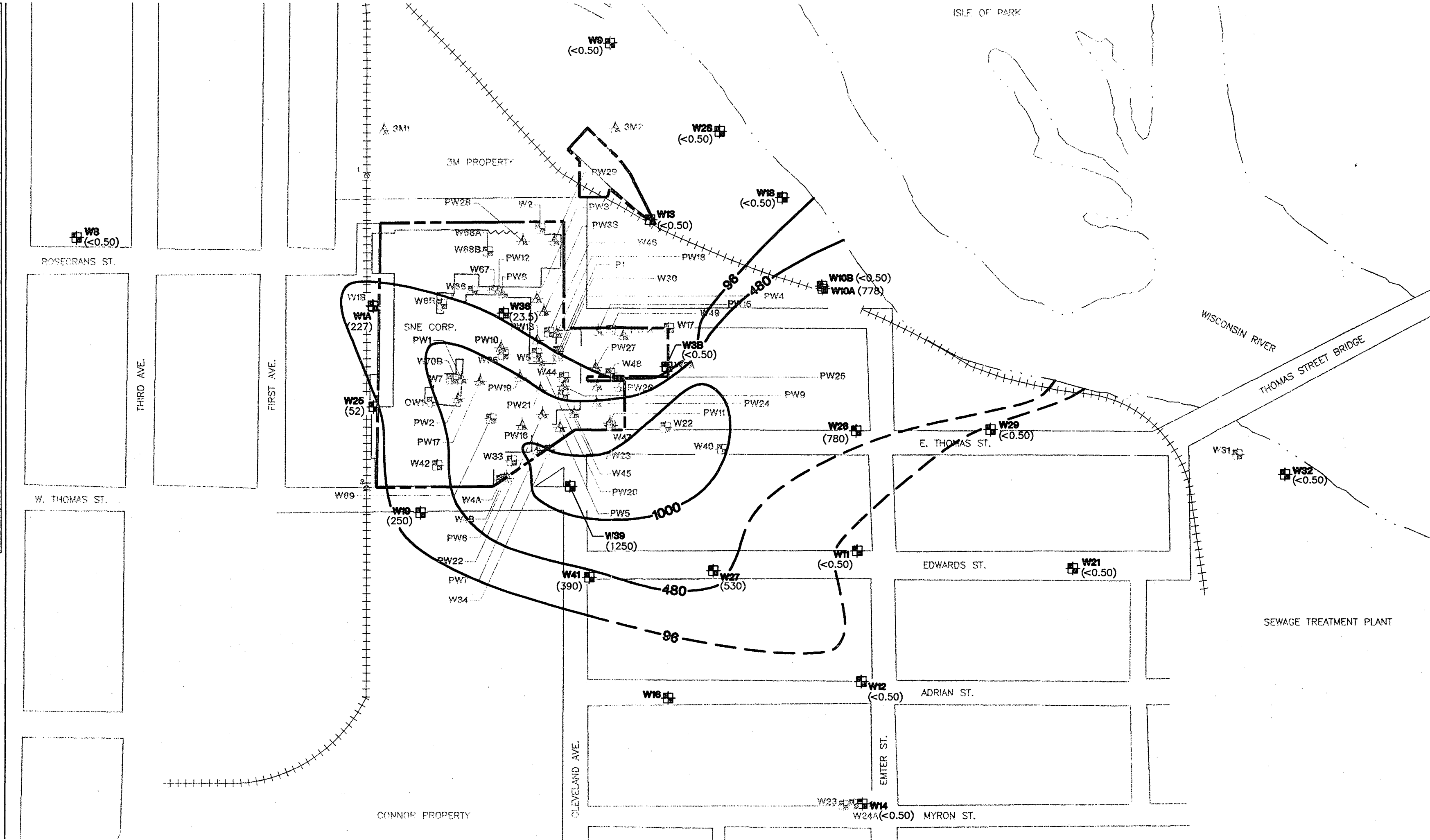
WAUSAU, WISCONSIN

Drawing Number 2082336 06160101 B14

MONTGOMERY WATSON

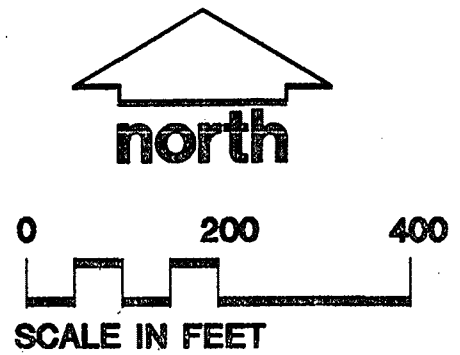
This drawing has been developed for a specific application and is not to be used for any other purpose without the written approval of Montgomery Watson.

QUALITY CONTROL	Graphic Standards, DLF	4-30-01	Technical Review	4-30-01	Management Review	Other
	Lead Professional	LAS	PI Review	DJB	4-30-01	



- LEGEND**
- W29 (<0.50) MONITORING WELL LOCATION, 1, 2, 4 - 1, 3, 5 - TRIMETHYLBENZENE CONCENTRATION (mg/L)
 - PW5 EXTRACTION WELL LOCATION AND NUMBER
 - APPROXIMATE PROPERTY LINE
 - 480 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 ON JULY 18, 2000.
 3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC. (CTI).
 4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.



Developed By	LAS	Drawn By	TMS
Approved By	<i>[Signature]</i>	Date	5-15-01
Reference	1242057.04180101-B1		
Revisions			

1,2,4- & 1,3,5- TRIMETHYLBENZENE
ISOCONCENTRATION MAP (JULY 2000)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
2082336
06160101

B15
MONTGOMERY WATSON

Figure 18

A

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

A1	Water Quality Indicators
A2	Phenolics
A3	Volatile Organic Compounds

A1

Water Quality Indicators

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W01A

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Total Mercury	TPH as Mineral Spirits	Sodium
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)
02/19/92							3.32		107		<630	
06/14/92							2.94		85.2		<500	
09/17/92			<1				1.97	1.86	89.8		<500	43000
12/18/92			<1				2.58		62.5		11000	33000
03/23/93			0.24			2.22			83		2500	36600
06/28/93			0.11			2.18			77		2800	
12/28/93			<0.2			2.86			92		<1000	
04/25/94			0.27			1.36			117			
06/21/94			0.15			1.62			96		6000	
10/04/94			0.24			2.3			93			
01/05/95			0.37			1.69			103			
03/10/95			0.23			2.2			115			
07/05/95	<0.25		0.17	<0.25	<0.25	2.77			136		380	
09/13/95			0.36			1.61			80			
12/18/95			0.2			2.61			147			
03/21/96			0.4			2.7			134			
07/10/96	<0.25	<1	0.16	<0.25	<0.25	2.22			75		950	
09/25/96			<0.1			2.26			97			
01/21/97			<0.1			2.14			118			
07/11/97			<0.1			2.14			89.4		49000	
01/02/98			<0.1			2.03			161			
06/23/98			<0.1			2.1			110	<0.2	33000	
01/26/99			<0.1			3.09			245	<0.2		
06/09/99			0.29			1.98			158		110000	
01/11/00			<0.1			2.98			209	<0.16		
07/18/00			<0.02			3.07			165	<0.16	94000	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/08/87				7.01				2.94	<5		436	3848	30.2	
06/04/87				6.62				2.73	<5		491	9260	29.9	
09/03/87				3.9				3.56	<5		421	11100	20.5	
12/03/87				1.66				3.56	<6		347	1480	38.5	
03/02/88				3.49				3.16	14.7		457	1590	32.4	125
04/07/88				3.68				3.73	<6		441	1900	27	119
08/10/88				7.44				1.47	8.53		585	2040	37.9	133
11/15/88				12				0.99	9.39		419	352	28.8	122
01/26/89				4.37				1.94	6.45		437	629	<10	128
04/27/89				10.5				0.71	19.3		373	2660	31	144
07/27/89				50.4				0.78	7.76		1720	1200	32.6	103
10/26/89				4.91				1.05	<6		473	1380	35.8	127
01/25/90				13.3				0.3	11.4		331	1190	31.7	95.4
05/03/90				10.6				0.61	<6		462	808	10.6	129
09/20/90				7.24				0.66	9.21		428	1320	29.4	132
12/11/90				11.9				1.83	<6		403	1900	33.6	97.5
01/30/91				14.2				4.71	11.6		364	936	35.9	95.8
05/01/91				23.9				4.13	20		477	894	32.5	107
10/08/91				14				<0.02	12.7		450	1460	29.8	117
02/20/92								<0.02	0					119
06/14/92								0.054						128
09/17/92			<1					0.023		2.52				158
12/18/92			<1					0.093						182
03/24/93			0.17				0.55							239
04/25/94			0.17				0.18							151
06/22/94			<0.1				1.46							146
10/04/94			0.16				0.13							117
01/05/95			<0.1				1.11							120
03/10/95			0.13				1.34							117
07/06/95	<0.25		0.41		<0.25	<0.25	0.79							113

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Phosphorus, Phosphate	Solids, Total Dissolved	Solids, Total Suspended	Sulfate	Total Chloride
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
09/13/95			0.13				0.66							114
12/18/95			0.14				0.69							97
03/21/96			0.13				0.74							89
07/10/96	<0.25	<1	0.13		<0.25	<0.25	1.2							58
01/21/97			<0.1				1.13							93
07/11/97			<0.1				0.17							54.5
01/02/98			<0.1				0.54							54.8
06/25/98			<0.1				1.12							76
01/27/99			<0.1				0.41							41

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/87				22.3	769	<10	371	<100
06/04/87				<10	<200	<10		140
09/03/87				<10	<200	<10		
12/03/87								
03/02/88								
04/07/88				<10	<200	<10		
08/10/88				<10	<200	<10		
11/15/88				<10	<200	<10		
01/26/89								
04/27/89				<10	<200	<10		
07/27/89				<10	<200	<10		
10/26/89				<10	<200	<10		
01/25/90				<10	<200	<10		
05/03/90				<10	<200	<10		
09/20/90				<10	<200	<10		
12/11/90				<10	<200	<10		
01/30/91				<10	<200	<10		
05/01/91				<10	<200	<10		
10/08/91				<10	<200	<10		
02/20/92		1110						
06/14/92		<500						
09/17/92		<500	65800					
12/18/92		35000	68300					
03/24/93		3500	88600					
04/25/94								
06/22/94		5500						
10/04/94								
01/05/95								
03/10/95								
07/06/95		8800						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Date	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
09/13/95								
12/18/95								
03/21/96								
07/10/96		4200						
01/21/97								
07/11/97		<450						
01/02/98								
06/25/98	0.4	9100						
01/27/99	0.6							

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W03B

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
06/17/91							4.2	<1	18		6000		<1
02/22/92							4.62		16.5		1000		
09/17/92			<1				4.59	<1	12.2		1100	<5000	
12/18/92			<1				3.58		13.4		3000	5970	
03/23/93			<0.1			3.75			14		<500	4900	
06/29/93			0.33			3.47			18		<1000		
12/28/93			<0.2			3.88			14		<1000		
06/22/94			<0.1			4.23			15		<1000		
07/06/95	<0.25		0.2	<0.25	<0.25	3.66			14		<250		
07/10/96	<0.25	<1	<0.1	<0.25	<0.25	3.96			14		<250		
07/11/97			<0.1			3.93			14		<260		
06/24/98			<0.1			3.48			16.9	<0.2	<250		
06/09/99			0.12			3.82			15.7		<100		
07/18/00			<0.02			3.72			20.4	<0.16	<500		

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Alkalinity, Bicarbonate (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/08/87					6.28				<0.02	<5		22.7	33
06/04/87					2.74				2.18	<5		<10	28.1
09/03/87					2.9				0.99	18.5		26	24
12/03/87					3.52				0.54	<6		30.1	17.2
03/03/88					2.44				0.73	<6		20.7	25.7
04/07/88					4.7				1.1	7.38		31.5	25.5
08/10/88					3.3				0.49	<6		79.1	18.2
11/15/88					3.59				0.57	9.22		13	23
01/26/89					1.93				0.51	<6		<10	21.5
04/27/89					2.82				0.63	8.77		20.7	19
07/27/89					50.4				1.01	<6		25.5	20.8
10/26/89					3.06				0.59	<6		21.5	18
01/25/90					2.99				0.5	<6		24.3	16.4
05/03/90					2.58				0.35	<6		20.5	16
09/20/90					2.69				0.3	<5		<10	19.5
12/11/90					5.52				0.58	<6		14.6	17.5
01/29/91					4.12				0.74	<6		16.3	19.7
05/01/91					5.96				0.58	<6		10.6	14.4
10/08/91					2.94				0.86	<6		21.8	48.6
10/29/91			79.4									18	42.6
12/22/91			54.5									17.2	31.7
02/20/92									2.87				33.7
06/14/92									2.66				73
09/17/92				<1					2.98		1.53		58
12/19/92				<1					2.38				59.8
03/23/93				0.2				5.06					60
06/28/93				0.18				1.85					66
12/27/93				<0.2				2.58					62
04/25/94				0.1				2.72					74
06/21/94				<0.1				2.41					72
10/04/94				<0.1				0.44					56

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Alkalinity, Bicarbonate (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/05/95				<0.1				2.44					60
03/09/95				<0.1				2.52					82
07/06/95	<0.25			0.13		<0.25	<0.25	2.53					76
09/13/95				<0.1				2.18					73
12/18/95				<0.1				1.8					61
03/20/96				0.12				3.22					59
07/08/96	<0.25	<1		<0.1		<0.25	<0.25	2.18					71
09/25/96				<0.1				2.02					46
01/21/97				<0.1				2.85					70
07/11/97				<0.1				3.62					75.6
01/02/98				<0.1				3					74.4
06/23/98				<0.1				3.04					84.7
01/26/99				<0.1				3.18					101
06/07/99				<0.1				3.16					73.4
01/11/00				<0.1				3.45					122
07/17/00				<0.02				2.77					174

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)
01/08/87				<10	382.5	<10	96	250			
06/04/87				<10	<200	<10		130			
09/03/87				<10	<200	<10					
12/03/87											
03/03/88											
04/07/88				<10	<200	<10					
08/10/88				<10	<200	<10					
11/15/88				<10	<200	<10					
01/26/89											
04/27/89				<10	<200	<10					
07/27/89				<10	<200	<10					
10/26/89				<10	<200	<10					
01/25/90				<10	<200	<10					
05/03/90				<10	<200	<10					
09/20/90				<10	<200	<10					
12/11/90				<10	<200	<10					
01/29/91				<10	<200	<10					
05/01/91				<10	<200	<10					
10/08/91				<10	<200	<10					
10/29/91			13500		<200				38600	10500	<5000
12/22/91			10800		<200				25400	6970	
02/20/92											
06/14/92		<500									
09/17/92		<500	15700								
12/19/92		2000	16000								
03/23/93		<500	15300								
06/28/93		<1000									
12/27/93		<1000									
04/25/94											
06/21/94		<1000									
10/04/94											

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)
01/05/95											
03/09/95											
07/06/95		<250									
09/13/95											
12/18/95											
03/20/96											
07/08/96		<250									
09/25/96											
01/21/97											
07/11/97		<250									
01/02/98											
06/23/98	<0.2	<250									
01/26/99	<0.2										
06/07/99		<100									
01/11/00	<0.16										
07/17/00	<0.16	<500									

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W09

Date	#2 Fuel Oil	#6 Fuel Oil	Alkalinity, Bicarbonate	Alkalinity, Total	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Phosphorus, Phosphate	Solids, Total Dissolved	Solids, Total Suspended	Sulfate	Total Chloride
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
6/4/87						19.4				0.22	8.15		455	8790	<10	117
9/3/87						7.47				0.04	11.2		381	860	<10	71.9
12/3/87						8.63				<0.02	<6		312	407	22	40
3/2/88						8.33				0.08	13.4		336	1260	13.8	51.4
4/7/88						7.3				0.13	<5		272	812	17.3	48
8/10/88						10.6				0.02	9.35		163	6430	29.9	45.6
11/15/88						8.68				0.05	<6		1330	128	<10	35
1/26/89						6.83				0.03	6.47		310	294	<10	39.1
4/27/89						6.79				0.09	6.92		338	987	10.9	55
7/27/89						31.8				0.12	<6		358	962	12.3	44.7
10/26/89						8.25				0.2	<5		344	960	10	45.6
1/25/90						7.84				0.07	<6		333	579	<10	58.8
5/3/90						15.9				0.02	<6		366	291	<10	71
9/20/90						12.1				0.04	<5		346	490	<10	32.5
12/11/90						5.91				0.06	<6		416	336	12.1	98.4
1/29/91						8.42				0.04	<6		493	467	11.2	153
5/1/91						9.83				0.65	<6		527	454	13.1	144
10/8/91						70.8				0.44	<6		526	1260	<10	142
10/29/91			209	209								1.25			11.5	172
12/22/91			223	223								2.69			<10	118
6/18/92					1.36					<0.02		2.99				82.6
12/17/92					<1					0.063						39.3
6/28/93					0.27				0.5							40
12/28/93					0.83				0.08							135
6/22/94					0.58				0.23							67
7/5/95	<0.25				0.91		<0.25	<0.25	0.1							204
7/9/96	<0.25	<1			0.4		<0.25	<0.25	<0.02							67
7/11/97					0.3				0.16							37.1
6/24/98					0.16				<0.14							64
6/7/99					0.39				<0.14							48.2
7/18/00					0.08				<0.08							21.9

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W09

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)
6/4/87				<10	<200	<10	3980			
9/3/87				<10	<200	<10				
12/3/87										
3/2/88										
4/7/88				<10	<200	<10				
8/10/88				<10	<200	<10				
11/15/88				<10	<200	<10				
1/26/89										
4/27/89				<10	<200	<10				
7/27/89				<10	<200	<10				
10/26/89				<10	<200	<10				
1/25/90				<10	<200	<10				
5/3/90				<10	<200	<10				
9/20/90				<10	<200	<10				
12/11/90				<10	<200	<10				
1/29/91				<10	<200	<10				
5/1/91				<10	257	<10				
10/8/91				<10	<200	<10				
10/29/91			90300		211			67600	17600	<5000
12/22/91			83800		<200			50000	13100	<5000
6/18/92		<500								
12/17/92		3000	76400							
6/28/93		<1000								
12/28/93		<1000								
6/22/94		<1000								
7/5/95		<250								
7/9/96		290								
7/11/97		<270								
6/24/98	2.5	<250								
6/7/99		<100								
7/18/00	0.96	<500								

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W10A

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
1/8/87				16.2				<0.02	10.5		374	5875	30.4	68
6/4/87				16.9				<0.02	21.5		328	6360	31.2	74.4
9/3/87				7.62				<0.02	35.2		236	7970	24.4	46.9
12/3/87				7.21				0.02	8.88		224	1100	38.2	5.07
3/3/88				11.2				<0.02	10.5		280	2800	27.6	64.7
4/7/88				10.9				0.13	13.7		270	1900	26.2	59.2
8/10/88				15.2				<0.02	13.3		153	5930	34.8	58.8
11/15/88				15.2				<0.02	21.7		283	153	<10	66
1/26/89				13.9				<0.02	18.6		305	399	17	51.8
4/27/89				12.3				<0.02	9.5		303	1720	26.7	48
7/27/89				68.4				<0.02	15.3		315	2020	32.8	57.6
10/26/89				11.2				<0.02	19.3		332	1150	37.4	57
1/25/90				17.3				<0.02	15.4		288	1740	36.4	65.6
5/3/90				13.1				0.03	19.3		257	214	27.9	55
9/20/90				8.34				<0.02	13.7		367	804	23.3	96.8
12/11/90				13.4				<0.02	<6		292	684	30.9	66.1
1/29/91				14.2				<0.02	18		283	863	26.1	69.1
5/1/91				13.8				0.03	10.8		286	1170	23.6	68.3
10/8/91				12.5				0.41	14.9		361		25.7	77.4
7/8/92			<1					0.22		2.74				124
12/18/92			<1					0.096						67
6/30/93			0.16				<0.02							53
12/28/93			<0.2				0.02							58
6/22/94			0.13				0.03							45
7/6/95	<0.25		0.38		<0.25	<0.25	<0.02							49
7/9/96	<0.25	<1	<0.1		<0.25	<0.25	<0.02							47
7/11/97			<0.1				<0.14							32.5
6/24/98			<0.1				<0.14							59.9
6/8/99			<0.1				<0.14							80
7/17/00			<0.02				<0.08							77.7

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W10A

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
1/8/87				154	1920.5	<10	994	290
6/4/87				<10	<200	<10		4330
9/3/87				<10	<200	<10		
12/3/87								
3/3/88								
4/7/88				<10	<200	<10		
8/10/88				<10	<200	<10		
11/15/88				<10	<200	<10		
1/26/89								
4/27/89				<10	<200	<10		
7/27/89				<10	<200	<10		
10/26/89				<10	<200	<10		
1/25/90				<10	<200	<10		
5/3/90				<10	<200	<10		
9/20/90				<10	<200	<10		
12/11/90				<10	<200	<10		
1/29/91				<10	<200	<10		
5/1/91				<10	<200	<10		
10/8/91				<10	<200	<10		
7/8/92		<500						
12/18/92		1000	28000					
6/30/93		1200						
12/28/93		<1000						
6/22/94		1400						
7/6/95		2800						
7/9/96		2400						
7/11/97		<260						
6/24/98	0.5	3300						
6/8/99		<1000						
7/17/00	0.55	2900						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W10B

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
7/8/92			<1				0.191	0.279	37		<500	6680
12/18/92			<1				0.427		3.57		600	6680
6/29/93			<0.1			0.37			3		<1000	
12/28/93			<0.2			0.36			<2		<1000	
6/22/94			0.16			0.42			<2		<1000	
7/6/95	<0.25		0.3	<0.25	<0.25	0.33			<2		<250	
7/9/96	<0.25	<1	<0.1	<0.25	<0.25	0.43			<2		<250	
7/11/97			<0.1			0.36			2.34		<0.27	
6/24/98			<0.1			0.35			1.05	<0.2	<250	
6/8/99			<0.1			0.37			1.16		<100	
7/17/00			<0.02			0.28			1.85	<0.16	<500	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W11

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
1/8/87				7.62				2.32	<5		404	2192	23.6	71.9
6/4/87				4.19				2.17	10.2		300	1430	<10	49.8
9/3/87				5.23				3.04	26.1		253	500	21.8	30.2
12/3/87				2.45				2.24	8.31		222	470	26.4	21.7
3/3/88				4.55				1.16	<6		267	624	16.2	45.2
4/7/88				4.04				1.55	9.97		224	592	14.9	42.9
8/10/88				3.87				1.09	19.8		153	3680	31.8	64.1
11/15/88				2.54				1.42	6.62		403	424	<10	58
1/26/89				4.27				1.55	<6		263	521	<10	45.7
4/27/89				12.3				2.14	<6		303	838	14.3	67
7/27/89				18.8				2.37	<6		372	1050	18	61.5
10/26/89				2.42				0.21	<6		205	340	14.1	22.8
1/25/90				3.75				1.35	<6		255	690	16.8	69.4
5/3/90				3.54				4.02	<6		268	158	20	60
9/21/90				3.87				5.14	6.34		253	366	20.2	54.6
12/11/90								6.36						
12/12/90				11.8					7.87		325	257	23.9	62.8
1/30/91				6.35				8.04	7.2		338		30.6	66.7
5/1/91				3.1				7.38	<6		313	606	27	50
10/8/91				2.65				2.91	<5		240	670	20.2	26.8
6/18/92			<1					2.67		0.736				31.4
12/17/92			<1					2.3						32.2
6/30/93			0.1				1.78							31
12/28/93			<0.2				1.89							26
6/21/94			<0.1				0.99							20
7/5/95	<0.25		<0.1		<0.25	<0.25	1.18							25
7/9/96	<0.25	<1	<0.1		<0.25	<0.25	0.46							47
7/11/97			<0.1				0.52							277
6/24/98			<0.1				2.38							38.1
6/8/99			<0.1				2.56							30.7
7/18/00			<0.02				1.43							40.7

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W11

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
1/8/87				48.7	936.5	<10	275	<100
6/4/87				<10	<200	<10		160
9/3/87				<10	<200	<10		
12/3/87								
3/3/88								
4/7/88				<10	<200	<10		
8/10/88				<10	<200	<10		
11/15/88				<10	<200	<10		
1/26/89								
4/27/89				<10	<200	<10		
7/27/89				<10	<200	<10		
10/26/89				<10	<200	<10		
1/25/90				<10	<200	<10		
5/3/90				<10	<200	<10		
9/21/90				<10	<200	<10		
12/11/90								
12/12/90				<10	<200	<10		
1/30/91				<10	<200	<10		
5/1/91				<10	<200	<10		
10/8/91				<10	<200	<10		
6/18/92		<500						
12/17/92		<500	17500					
6/30/93		<1000						
12/28/93		<1000						
6/21/94		<1000						
7/5/95		<250						
7/9/96		<250						
7/11/97		<250						
6/24/98	<0.2	<250						
6/8/99		<100						
7/18/00	0.16	<500						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well -W12

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
06/18/92			<1				9.28	1.35	159		<500	
12/17/92			<1				10.3		140		<500	63000
06/29/93			<0.1			11.3			126		<1000	
12/28/93			0.22			8.14			108		<1000	
06/21/94			<0.1			7.43			102		<1000	
07/06/95	<0.25		0.28	<0.25	<0.25	6.25			105		<250	
07/08/96	<0.25	<1	<0.1	<0.25	<0.25	7.7			89		<250	
07/11/97			<0.1			5.5			83.6		<260	
06/23/98			<0.1			3.97			100	<0.2	<250	
06/08/99			<0.1			3.25			107		<100	
07/17/00			<0.02			3.675			103.5	<0.16	<500	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W13

Sampled	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
06/22/92			<1				0.825	4.46	77.4		<500	
12/19/92			<1				1.48		146		<500	83300
06/30/93			<0.1			1.38			80		<1000	
12/27/93			<0.2			5.01			200		<1000	
04/25/94			<0.1			2.36			167			
06/22/94			<0.1			2.84			152		<1000	
10/04/94			0.2			5.59			132			
03/10/95			<0.1			7.22			184			
07/06/95	<0.25		0.3	<0.25	<0.25	6.66			163		<250	
09/13/95			<0.1			4.59			96			
03/20/96			0.1			4.65			133			
07/10/96	<0.25	<1	<0.1	<0.25	<0.25	4.87			83		<250	
09/25/96			<0.1			4.37			101			
07/11/97			<0.1			<0.14			75.5		<270	
01/02/98			<0.1			4.41			211			
06/24/98			<0.1			3.57			150	<0.2	<250	
01/26/99			<0.1			4.97			135	<0.2		
06/09/99			<0.1			3.045			89.4		<100	
01/11/00			<0.1			1.37			106	0.26		
07/18/00			<0.02			4.05			119	<0.16	<500	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W14

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)
01/08/87				4.51				5.51	<5		574	1684	30.5
06/04/87				2.22				4.46	30		443	1670	<10
09/03/87				6.5				3.76	30.1		434	820	18.3
12/03/87				2.05				4.69	<5		413	2260	32.2
03/03/88				3.78				6.34	8.74		439	972	22.7
04/07/88				2.93				6.19	<6		429	1540	21.2
08/10/88				2.99				5.34	5.7		338	4660	32.2
11/15/88				2.85				5.96	<5		473	70	<10
01/26/89				1.71				5.37	<6		469	458	<10
04/27/89				3.42				5.52	<6		439	2600	22.5
07/27/89				64.6				5.7	<6		596	2910	23.5
10/26/89				2.54				5.57	<6		470	1190	29.2
01/25/90				1.74				5.31	<6		418	1800	24.3
05/03/90				4.92				4.46	<5		389	553	22.5
09/21/90				2.12				5.33	<5		425	912	23.2
12/11/90								6.07					
12/12/90				12.4					<6		497	664	21.3
01/30/91				2.86				6.62	<6		463	621	23.8
05/01/91				8.06				6.3	<5		463	1460	24.7
06/18/91								2					
10/08/91				1.78				6.47	<6		490	1320	22.4
06/24/92								6.04	6	1.96			
12/18/92			<1					5.78					
06/29/93			<0.1				5.76						
12/28/93			<0.2				4.68						
06/21/94			<0.1				4.18						
07/06/95	<0.25		0.4		<0.25	<0.25	4.51						
07/08/96	<0.25	<1	<0.1		<0.25	<0.25	4.98						
07/11/97			<0.1				2.44						
06/23/98			<0.1				1.76						
06/07/99			<0.1				2.88						
07/17/00			<0.02				3.63						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W14

Date	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/87	128				32.6	1356.5	<10	239	<100
06/04/87	123				<10	<200	<10		<100
09/03/87	127				<10	<200	<10		
12/03/87	127								
03/03/88	128								
04/07/88	101				<10	<200	<10		
08/10/88	109				<10	<200	<10		
11/15/88	115				<10	<200	<10		
01/26/89	118								
04/27/89	112				<10	<200	<10		
07/27/89	137				<10	<200	<10		
10/26/89	104				<10	<200	<10		
01/25/90	87.7				<10	<200	<10		
05/03/90	95				<10	<200	<10		
09/21/90	107				<10	<200	<10		
12/11/90									
12/12/90	116				<10	253	<10		
01/30/91	116				<10	249	<10		
05/01/91	115				<10	212	<10		
06/18/91									
10/08/91	114				<10	<200	<10		
06/24/92	114		<500		<1	<200	<10		
12/18/92	94.7		<500	41200					
06/29/93	110		<1000						
12/28/93	113		<1000						
06/21/94	112		<1000						
07/06/95	117		<250						
07/08/96	120		<250						
07/11/97	186		<260						
06/23/98	241	<0.2	<250						
06/07/99	125		<100						
07/17/00	112	<0.16	<500						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W16

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Total (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/08/87						5.8				8.8	<5		762	1168	31.6	175
06/04/87						5.26				11.8	11.6		605	14900	36.8	162
09/03/87						3.93				9.27	16		552	12100	24.1	177
12/03/87						4.1				7.95	<6		449	2080	35.9	159
03/03/88						2.33				10.1	15.4		490	880	31	164
04/07/88						4.06				10.3	<5		4.85	6650	25.3	141
08/10/88						4.84				12.6	6.88		322	22200	39.9	121
11/15/88						4.12				11.1	10		519	519	<10	131
01/26/89						2.59				8.12	<5		471	2880	<10	136
04/27/89						2.69				8.03	<6		476	5860	27.2	134
07/27/89						36.2				9.78	<6		680	4480	27.4	170
10/26/89						2.33				7.28	<6		5.49	2460	29.6	157
01/25/90						3.45				5.91	<6		525	2890	25	180
05/03/90						3.35				9.75	<6		626	1750	28.8	186
09/21/90						2.57				11	<5		621	3570	29	178
12/11/90										11.5						
12/12/90						5.94					<5		615	2040	29.3	190
01/30/91						5.44				11.1	<6		543	1280	29.6	198
05/01/91						3.95				11	<6		460	5170	31.4	137
10/08/91						2.86				13.5	<6		648	7340	25.9	158
10/29/91			94.5	94.5								1.04			32.6	170
12/22/91			99.5	99.5								1.33			33	126
06/16/92										5.8		4.29				101
12/18/92					<1					10.4						125
06/29/93					0.53				7.86							126
12/28/93					<0.2				11.5							155
06/21/94					<0.1				6.27							128
07/06/95	<0.25				0.17		<0.25	<0.25	6.03							106
07/08/96	<0.25	<1			<0.1		<0.25	<0.25	0.84							28
07/11/97					<0.1				5.44							173
06/24/98					<0.1				4.13							221
06/07/99					<0.1				3.24							155
07/18/00					<0.02				4.74							122

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W16

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)
01/08/87				188.5	2220	<10	479	<100			
06/04/87				<10	<200	<10		<100			
09/03/87				<10	<200	<10					
12/03/87											
03/03/88											
04/07/88				<10	<200	<10					
08/10/88				<10	<200	<10					
11/15/88				<10	<200	<10					
01/26/89											
04/27/89				<10	<200	<10					
07/27/89				<10	<200	<10					
10/26/89				<10	<200	<10					
01/25/90				<10	<200	<10					
05/03/90				<10	<200	<10					
09/21/90				<10	<200	<10					
12/11/90											
12/12/90				<10	<200	<10					
01/30/91				<10	<200	<10					
05/01/91				<10	<200	<10					
10/08/91				<10	<200	<10					
10/29/91			75400		<200				71800	17900	12500
12/22/91			60600		<200				55400	14100	9980
06/16/92		1600		<1	<200						
12/18/92		<500	58500								
06/29/93		<1000									
12/28/93		<1000									
06/21/94		<1000									
07/06/95		<250									
07/08/96		<250									
07/11/97		<260									
06/24/98	<0.2	<250									
06/07/99		<100									
07/18/00	0.26	<500									

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W18

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
02/25/92							<0.02		52.4		1000	
07/08/92			<1				<0.02	4.02	131		<500	
09/17/92			<1				<0.02	1.6	50.5		<500	21100
12/17/92			<1				0.05		52.7		1000	22800
03/23/93			0.14			<0.02			52		2100	21800
06/29/93			<0.1			0.04			43		<1000	
12/28/93			<0.2			<0.02			69		1000	
06/22/94			<0.1			<0.02			45		<1000	
07/05/95	<0.25		0.22	<0.25	<0.25	<0.02			39		1900	
07/09/96	<0.25	<1	<0.1	<0.25	<0.25	<0.02			28		940	
07/11/97			<0.1			<0.14			40.7		<260	
06/24/98			<0.1			<0.14			37.1	<0.2	250	
06/08/99			<0.1			1.26			23.3		<100	
07/18/00			<0.02			2.01			34.2	0.27	<500	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W21

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Total (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/08/87						11				4.02	<5		390	2935	21.8	82.6
06/04/87						13.8				1.72	<5		293	5760	32	52.7
09/03/87						3.62				1.74	12.6		243	2480	20.2	53.2
12/03/87						3.89				4.59	<6		302	313	33.5	68.4
03/03/88						5.6				2.44	<6		331	1560	19.6	69.9
04/07/88						2.93				2.76	<6		296	1650	28.9	83
08/10/88						5.92				3.25	8.46		127	4420	59.3	71
11/15/88						3.86				4.83	10.6		313	170	<10	81
01/26/89						2.34				3.91	24.6		392	556	<10	89.8
04/27/89						3.54				5.95	8.07		415	2090	19.5	115
07/27/89						30				6.45	<6		460	1420	21	101
10/26/89						3.74				0.23	<6		161	324	15.8	14.2
01/25/90						3.49				2.92	<6		190	450	24.2	33.7
05/03/90						4.01				1.2	<6		248	236	14.2	53
09/21/90						2.93				0.53	<6		141	106	18.8	30.4
12/11/90						0				0.58						
12/12/90						5.34					<6		198	175	15.1	31.8
01/30/91						4.46				0.83	<6		204	98	13.6	40.6
05/01/91						6.74				1.11	<6		175	648	11.2	32.8
10/08/91						2.76				0.88	<5		253	388	15.5	56.6
10/29/91			94.5	94.5								0.392			16.2	54.8
12/22/91			85.8	85.8								0.267			13.8	35.2
06/24/92										2.5		3.18				40.4
12/18/92					<1					2.3						59
06/29/93					<0.1				1.83							62
12/28/93					<0.2				2.4							74
06/22/94					0.31				1.3							43
07/06/95	<0.25				0.16		<0.25	<0.25	0.78							44
07/08/96	<0.25	<1			<0.1		<0.25	<0.25	4.36							88
07/11/97					<0.1				2.58							79.1
06/23/98					<0.1				2.93							130
06/07/99					<0.1				1.69							110
07/17/00					<0.02				1.51							87.7

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W21

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)
01/08/87				64	991	<10	473	360			
06/04/87				<10	<200	<10		310			
09/03/87				<10	<200	<10					
12/03/87											
03/03/88											
04/07/88				<10	<200	<10					
08/10/88				<10	<200	<10					
11/15/88				<10	<200	<10					
01/26/89											
04/27/89				<10	<200	<10					
07/27/89				<10	<200	<10					
10/26/89				<10	<200	<10					
01/25/90				<10	<200	<10					
05/03/90				<10	<200	<10					
09/21/90				<10	<200	<10					
12/11/90											
12/12/90				<10	<200	<10					
01/30/91				<10	<200	<10					
05/01/91				<10	<200	<10					
10/08/91				<10	<200	<10					
10/29/91			32400		<200				33100	9780	<5000
12/22/91			25000		<200				24300	7430	<5000
06/24/92		<500		<1							
12/18/92		<500	36500								
06/29/93		<1000									
12/28/93		<1000									
06/22/94		<1000									
07/06/95		<250									
07/08/96		<250									
07/11/97		<260									
06/23/98	<0.2	<250									
06/07/99		<100									
07/17/00	<0.16	<500									

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W22

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
02/25/92							<0.02		386		3000	
06/14/92							0.14		299		550	
09/17/92			<1				0.675	0.632	19.6		<500	11300
12/18/92			<1				0.081		313		3000	131000
03/24/93			<0.1			0.02			307		9900	124000
06/30/93			<0.1			0.73			25		<1000	
12/28/93			0.22			0.06			356		2000	
04/25/94			0.24			0.13			247			
06/22/94			<0.1			0.05			180		<1000	
10/04/94			<0.1			0.15			240			
01/05/95			<0.1			0.27			248			
03/09/95			0.13			0.21			196			
07/06/95	<0.25		0.49	<0.25	<0.25	0.02			167		2000	
09/13/95			<0.1			0.22			119			
12/18/95			0.13			<0.1			183			
03/21/96			0.12			<0.1			138			
07/10/96	<0.25	<1	<0.1	<0.25	<0.25	0.28			95		1800	
09/25/96			<0.1			<0.08			100			
01/21/97			<0.1			0.15			118			
07/11/97			<0.1			0.2			184		2800	
01/02/98			<0.1			<0.14			392			
06/24/98			<0.1			0.16			428	0.3	2900	
01/26/99			<0.1			<0.14			432.5	1.05		

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W25

Date	#2 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
02/19/92						7.64		75.8		<610	
07/29/92						4.66		60.4		<500	
09/17/92		<1				6.04	1.96	34.6		<500	31900
12/17/92		<1				6.52		39.3		<500	33700
03/23/93		<0.1			4.37			77		<500	40200
06/28/93		0.2			4.2			71		<1000	
12/28/93		0.26			8.07			136		<1000	
04/25/94		0.2			1.14			90			
06/21/94		0.17			2.69			84		1600	
10/04/94		<0.1			6.02			89			
03/10/95		0.23			0.58			68			
07/05/95	<0.25	0.71	<0.25	<0.25	2.58			91		850	
09/13/95		<0.1			1.14			25			
03/21/96		0.11			4.55			54			
07/11/97		<0.1			5.5			156		<260	
01/02/98		<0.1			3.4			81.2			
06/23/98		<0.1			2.61			110	<0.2	<250	
01/26/99		<0.1			4.5			144	<0.2		
06/09/99		0.2			4.9			187		<100	
01/11/00		<0.1			4.75			207	<0.16		
07/18/00		<0.02			5.74			186	<0.16	<500	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W26

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
02/25/92							0.034		103		1000	
06/14/92							0.093		130		<500	
09/17/92			<1				0.031	1.96	166		650	62800
12/18/92			<1				0.337		139		1000	66000
03/24/93			0.18			0.12			136		4800	52800
06/30/93			0.19			0.12			133		<1000	
12/27/93			<0.2			0.16			155		1000	
04/25/94			0.11			<0.02			212			
06/22/94			<0.1			<0.02			181		1200	
10/04/94			<0.1			<0.02			178			
03/09/95			0.12			0.05			169			
07/06/95	<0.25		0.24	<0.25	<0.25	0.04			143		4400	
09/13/95			<0.1			<0.02			245			
03/21/96			0.16			<0.04			118			
07/09/96	<0.25	<1	<0.1	<0.25	<0.25	0.81			488		900	
09/25/96			<0.1			<0.08			359			
07/11/97			<0.1			0.25			207		<260	
01/02/98			<0.1			<0.14			287			
06/24/98			<0.1			<0.14			349	0.2	3800	
01/27/99			<0.1			<0.14			691	<0.2		
06/09/99			<0.1			<0.14			677		<1000	
01/11/00			<0.1			<0.14			193.5	0.355		
07/18/00			<0.02			<0.08			375	<0.16	4800	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W27

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
06/24/92							0.926	103		500		<1
12/17/92			<1				0.324	140		2000	58000	
06/30/93			<0.1			2.62		162		<1000		
12/28/93			0.26			0.39		129		1000		
06/22/94			<0.1			0.36		116		<1000		
07/06/95	<0.25		0.47	<0.25	<0.25	1.41		123		3800		
07/09/96	<2.5	<10	<0.1	<2.5	<2.5	0.16		173		6500		
07/11/97			<0.1			0.32		214		<250		
06/24/98			<0.1			0.64		187	1	4900		
06/08/99			0.25			0.42		359		2800		
07/18/00			<0.02			0.295		341.5	0.87	3850		

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W28

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/08/87				7.31				<0.02	<5		485	8170	36.8	102
06/04/87				4.6				0.29	5.08		385	4290	37.3	88.4
09/03/87				29.5				0.14	29		343	1650	20.2	102
12/03/87				5.64				0.15	<6		351	768	42.7	14
03/03/88				12				<0.02	9.52		471	2070	43.5	129
04/07/88				8.47				<0.02	<5		386	3300	47.2	123
08/10/88				4.63				0.23	8.32		206	4310	53	107
11/15/88				4.84				0.18	10.5		402	1970	19.6	100
01/26/89				4.66				<0.02	9.28		423	567	<10	121
04/27/89				7.26				0.04	7.68		392	1020	35.2	115
07/27/89				35.6				0.19	<6		388	2450	38.5	94.3
10/26/89				2.77				0.2	<6		365	1050	46.5	85.5
01/25/90				4.05				0.11	<6		466	1130	33.6	93.5
05/03/90				12				<0.02	<6		384	540	37.1	96
09/20/90				4.55				<0.02	<5		317	918	33.6	89.9
12/11/90				5.62				0.19	<6		324	528	33.8	79
01/29/91				4.41				<0.02	<6		293	963	31.6	76.1
05/01/91				7.05				0.08	7.56		281	1400	30.1	74.8
10/08/91				4.99				<0.02	<5		329	840	23.3	73.4
07/08/92			<1					0.115		0.918				
12/17/92			<1					0.051						98.3
06/29/93			0.17				<0.02							88
12/28/93			<0.2				0.13							158
06/22/94			<0.1				0.03							130
07/05/95	<0.25		0.14		<0.25	<0.25	0.25							99
07/09/96	<0.25	<1	<0.1		<0.25	<0.25	0.1							65
07/11/97			<0.1				<0.14							75.5
06/24/98			<0.1				0.19							57.2
06/08/99			<0.1				0.24							53.6
07/18/00			<0.02				0.21							50.9

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W28

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/87				30.45	2285	<10	965	<100
06/04/87				<10	<200	<10		370
09/03/87				<10	<200	<10		
12/03/87								
03/03/88								
04/07/88				<10	<200	<10		
08/10/88				<10	<200	<10		
11/15/88				<10	<200	<10		
01/26/89								
04/27/89				<10	<200	<10		
07/27/89				<10	<200	<10		
10/26/89				<10	<200	<10		
01/25/90				<10	<200	<10		
05/03/90				<10	<200	<10		
09/20/90				<10	<200	<10		
12/11/90				<10	<200	<10		
01/29/91				<10	<200	<10		
05/01/91				<10	<200	<10		
10/08/91				<10	<200	<10		
07/08/92		<500						
12/17/92		<500	49100					
06/29/93		<1000						
12/28/93		<1000						
06/22/94		<1000						
07/05/95		<250						
07/09/96		<250						
07/11/97		<270						
06/24/98	<0.2	<250						
06/08/99		<100						
07/18/00	0.24	<500						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W29

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)
01/08/87				18.9				0.53	9.8	446	3785	41.1	87.4
06/04/87				26.3				0.23	16.8	436	2740	46.1	117
09/03/87				27.7				0.95	12.2	308	765	21.3	70.9
12/03/87				22.8				0.16	20.2	452	2220	48.1	118
03/03/88				16				0.42	13.7	327	1470	34	66.8
04/07/88				5.46				2.8	<5	154	1050	30.2	13.2
08/10/88				25.2				0.39	20.3	224	5150	55.7	95.6
11/15/88				34.3				0.19	27.9	366	1620	48.9	99.5
01/26/89				25.3				0.23	28.7	374	361	<10	86.2
04/27/89				27.8				<0.02	32.9	408	2060	32.4	81
07/27/89				69.8				0.07	16.6	502	1120	50	116
10/26/89				15.8				0.34	15.3	395	372	40.2	87.4
01/25/90				11.6				0.32	<6	218	758	25.7	45.3
05/03/90				4.36				2.07	<6	159	170	11.9	17
09/21/90				5.23				0.69	<5	158	376	16.3	23
12/11/90				14.3				0.26	<6	192	297	34	19.8
01/30/91				5.26				0.28	<6	165	291	13.1	15.1
05/01/91				13.1				0.31	<6	190	500	14.4	17.4
06/25/92								0.027					21.1
12/18/92			<1					0.231					25.9
06/30/93			0.15				0.44						43
12/28/93			<0.2				0.1						24
06/22/94			<0.1				0.6						157
07/05/95	<0.25		0.97		<0.25	<0.25	<0.02						35
07/09/96	<0.25	<1	<0.1		<0.25	<0.25	0.08						60
07/11/97			<0.1				0.15						30.4
06/23/98			<0.1				0.14						95.2
06/08/99			<0.1				0.66						354
07/18/00			<0.02				1.04						98.7

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W29

Date	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/87				50	676	<10	310	2820
06/04/87				<10	<200	<10		4060
09/03/87				<10	<200	<10		
12/03/87								
03/03/88								
04/07/88				<10	<200	<10		
08/10/88				<10	<200	<10		
11/15/88				<10	<200	<10		
01/26/89								
04/27/89				<10	<200	<10		
07/27/89				<10	<200	<10		
10/26/89				<10	<200	<10		
01/25/90				<10	<200	<10		
05/03/90				<10	<200	<10		
09/21/90				<10	<200	<10		
12/11/90				<10	<200	<10		
01/30/91				<10	<200	<10		
05/01/91				<10	<200	<10		
06/25/92		<500		<1				
12/18/92		<500	22100					
06/30/93		<1000						
12/28/93		<1000						
06/22/94		<1000						
07/05/95		<250						
07/09/96		690						
07/11/97		<260						
06/23/98	<0.2	470						
06/08/99		<100						
07/18/00	0.21	<500						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W32

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)
01/08/87				34.1				0.03	<5		168	2210	45.9
06/04/87				23.9				<0.02	<5		221	1730	53
09/03/87				14.8				<0.02	<5		191	245	36.2
12/03/87				14.5				<0.02	<6		175	182	57.8
03/03/88				11.5				<0.02	8.62		89	416	32.6
04/07/88				9.31				<0.02	<5		124	87	32.4
08/10/88				21.1				<0.02	<6		21	1410	58.8
11/15/88				15.7				<0.02	<6		181	342	56.4
01/26/89				9.35				<0.02	<6		196	91	75.5
04/27/89				16.7				<0.02	<6		193	373	9.8
07/27/89				42.8				<0.02	<6		224	171	1.5
10/26/89				8				<0.02	<6		136	90	25.1
01/25/90				9.81				<0.02	7.64		111	140	5.7
05/03/90				10.6				<0.02	<6		140	18	4
09/21/90				13.9				<0.02	<5		81	41	<1
12/11/90				14.1				<0.02	<6		130	30	<1
01/30/91				15.1				<0.02	<6		108	24	<1
05/01/91				29.2				<0.02	<6		477	109	46.4
10/08/91				15.1				<0.02	<5		183	86	<1
06/24/92								<0.02		2.8			
12/19/92			1.96					0.052					
06/29/93	0	0	1.8	0	0	0	0.07	0	0	0	0	0	0
12/28/93	0	0	1.31	0	0	0	0.08	0	0	0	0	0	0
06/22/94	0	0	1.21	0	0	0	0.04	0	0	0	0	0	0
07/05/95	<0.25	0	1.46	0	<0.25	<0.25	0.03	0	0	0	0	0	0
07/08/96	<0.25	<1	1.72	0	<0.25	<0.25	<0.06	0	0	0	0	0	0
07/11/97	0	0	0.9	0	0	0	0.15	0	0	0	0	0	0
06/23/98	0	0	0.92	0	0	0	<0.14	0	0	0	0	0	0
06/07/99	0	0	1.49	0	0	0	0.15	0	0	0	0	0	0
07/17/00	0	0	1.02	0	0	0	<0.08	0	0	0	0	0	0

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W32

Date	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/87	15.5				48.4	712	<10	361	30500
06/04/87	17.6				<10	<200	<10		49500
09/03/87	12.5				<10	<200	<10		
12/03/87	14								
03/03/88	7.19								
04/07/88	8.11				<10	<200	<10		
08/10/88	13.8				<10	<200	<10		
11/15/88	15				<10	<200	<10		
01/26/89	12.1								
04/27/89	20				<10	<200	<10		
07/27/89	16.9				<10	<200	<10		
10/26/89	8.55				<10	<200	<10		
01/25/90	10.6				<10	<200	<10		
05/03/90	11				<10	<200	<10		
09/21/90	6.1				<10	<200	<10		
12/11/90	5.8				<10	<200	<10		
01/30/91	4				<10	<200	<10		
05/01/91	72.9				<10	269	<10		
10/08/91	5.96				<10	<200	<10		
06/24/92	27.2		<500		2.64				
12/19/92	25.9		<500	21800					
06/29/93	56		<1000						
12/28/93	7		<1000						
06/22/94	11		<1000						
07/05/95	12		<250						
07/08/96	38		<250						
07/11/97	9.4		<270						
06/23/98	12.1	<0.2	<250						
06/07/99	21.9		<100						
07/17/00	14.9	<0.16	<500						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W36

Sampled	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)
02/20/92							<0.02		100		1200
08/03/92							0.048		102		1000
09/17/92			<1				0.055	2.93	48.7		650
09/13/95			<0.1			2.31			136		
07/10/96	<0.25	<1	<0.1	<0.25	<0.25	0.21			120		1800
07/11/97			<0.1			1.4			77		33000
01/02/98			<0.1			1.33			94.2		
06/25/98			<0.1			2.44			92.8	11.5	2400
01/27/99			<0.1			2.8			95.1	23	
06/09/99			0.11			2.755			96.05		<100
01/11/00			<0.1			3.16			118	10.7	
07/18/00			<0.02			2.88			133	4.45	1300

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W39

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
06/17/92							0.461	5.36	193		<500		<1
12/18/92			<1				0.905		195		75000	96200	
06/21/94			<0.1			0.58			185		<1000		
03/10/95			0.3			0.4			75				
09/13/95			0.16			0.1			62				
12/18/95			0.45			0.24			141				
03/20/96			0.13			<0.1			69				
07/09/96	<13	<50	0.11	<13	<13	0.08			170		95000		
01/21/97			<0.1			1			122				
07/11/97			<0.1			1.24			163		160000		
01/02/98			<0.1			0.57			207				
06/24/98			<0.1			0.6			189	2.2	45000		
06/09/99			0.36			2.78			155		27000		
07/19/00			<0.02			1.4			168	3.2	240000		

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W41

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
02/25/92							0.759		80.6		141000		
06/16/92							0.345	5.11	246		500		<1
09/17/92			<1				0.543	2.55	168		900	67800	
12/19/92			<1				0.228		211		9000	103000	
03/24/93			0.66			0.34			122		7100	107000	
06/30/93			0.12			0.05			124		330000		
12/28/93			0.34			1.75			218		5600		
04/25/94			0.34			0.04			115				
06/21/94			0.22			0.04			91		2800		
10/04/94			0.6			0.34			44				
03/10/95			0.47			0.53			191				
07/06/95	<0.25		0.85	<0.25	<0.25	0.9			132		5500		
09/13/95			0.57			0.29			100				
03/20/96			0.54			<0.2			162				
07/09/96	<2.5	<10	0.26	<2.5	<2.5	<0.02			137		13000		
09/25/96			0.2			0.74			164				
07/11/97			0.3			3.76			146		10000		
01/02/98			0.26			0.75			323				
06/24/98			0.22			0.52			281	0.4	5200		
01/26/99			0.15			0.35			318	0.4			
06/08/99			0.57			0.5			414		5900		
01/11/00			0.5			0.213			250	0.75			
07/19/00			0.29			0.55			248	0.22	11000		

A2

Phenolics

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W01A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
02/19/92		<1		<1	<0.5	5.91	5.27		<0.5		<0.5			<1	<0.5	<1		101	<0.5	
06/14/92		<1.02		<1.02	<0.51	<0.51	<1.02		24.3		<0.51			<1.02	<0.51	<1.02		168	<0.51	
09/17/92		<1		34.3	<0.5	67.8	<1		<0.5		<0.5			<1	<0.5	42.1		193	<0.5	
12/18/92		<1		5.18	23.3	<0.5	6.69		<0.5		<0.5			<1	1.77	2.51		150	24.1	
03/23/93		<20		<60	<2	<2	<6		<2		<2			<10	<10	<10		219	<2	
06/28/93	40		<20	<10	<10	<10	310	<10		170	<10		<20	37	<10	430	<10	210		<20
12/28/93	<160		<320	<160	<160	190	<320	<160		<160	<160		<320	<160	<160	<320	<160	310		240
04/25/94	<10		59	55	<10	<10	67	<10		<10	<10		<20	<10	19	24	<10	20		<20
06/21/94	69		160	120	130	29	110	27		64	200		<20	46	59	65	<10	120		<20
10/04/94	<10		58	65	<10	86	34	<10		22	<10		<20	<10	18	<20	<10	89		<20
01/05/95	28		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	20	<20	<10	50		<20
03/10/95	<10		26	18	10	44	<20	<10		44	50		41	<10	12	21	<10	28		35
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10	
09/13/95	20		70	130	53	42	89	24	<10	26	21		20	<10	91	29	<10	150	<10	
12/18/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	<100	<100	<200	<100	180	<100	
03/21/96	<10		86	53	12	16	<20	13	<10	<10	<10		<20	20	48	24	<10	140	<10	
07/10/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	14		<20	<10	16	<20	<10	64	<10	
09/25/96	0.77		<0.73	<0.71	<0.8	<1.5	<0.72	<0.87	<1.2	<0.79	<1.5		1.7	<0.75	<0.69	<0.74	<0.85	0.68	<1	
01/21/97	<7.9		<7.5	<7.3	<8.2	<16	<7.4	<9	<12	<8.1	<16		<18	<7.7	<7.1	<7.6	<8.8	185	<11	
07/11/97	<0.182		130	110	310	210	<0.269	690	<0.194	360	380		230	<0.362	300	170		340	230	
01/02/98	50		110	70	260	100	550	410	140	270	230		<0.128	170	65	<0.351		80	<0.127	
06/23/98		67	78	80	200	120	380	440	200	200	320		88	170	160	<60		63	130	
01/26/99			95	68		78	190	110		120	150		86		90	140			120	
06/09/99					500		440	630	2100	340	1100		1200					520	4400	
01/11/00	<75		<75	<75	<75	<75	<75	<75	<75	<75	<75	<75		<75	<75	<75		140	<75	
07/18/00	<150		970	210	2100	1600	<150	2500	3100	2000	2500	2900		200	300	3500		690	2700	

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
01/08/87																	1220		
06/04/87																	6520		
09/03/87																	394		
12/03/87																	180		
03/02/88																	1200		
04/07/88																	10		
08/10/88																	4200		
11/15/88																	4700		
01/26/89																	455		
04/27/89																	6550		
07/27/89																	5940		
10/26/89																	2340		
01/25/90																	8450		
05/03/90																	2380		
09/20/90																	5940		
12/11/90																	6400		
01/30/91																	11400		
05/01/91																	47000		
06/18/91																	15100		
10/08/91																	14800		
02/20/92		<1		<1	<0.5	19.8	<1		<0.5		<0.5		<1	<0.5	46.3		7550	<0.5	
06/14/92		<1.05		146	<0.526	5.42	47.2		<0.526		<0.526		<1.05	<0.526	39.6		10900	<0.526	
09/17/92		39.4		<1	36.7	1.99	<1		<0.5		<0.5		2.87	<0.5	52.6		9590	<0.5	
12/18/92		12.9		<1	<0.5	<0.5	4.35		<0.5		<0.5		<1	1.77	4.93		12700	45.7	
03/24/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		<10	<2	
04/25/94	600		190	490	<10	89	95	110		300	68	110	75	130	110	40	1500		230
06/22/94	1300		400	290	560	110	340	370		210	410	<200	<100	<100	240	<100	5000		<200
10/04/94	1400		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	14000		<1000
01/05/95	1400		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	16000		<1000
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	6900		<2000

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
07/06/95	<2500		<1000	<1000	<1000	<1000	<5000		<1000	<1000	<1000	<2000	<5000	<2000	<5000	<2500	11000	<1000	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	9200	<1000	
12/18/95	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	6700	<5000	
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	1100	<1000	<2000	<1000	11000	<1000	
07/10/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	1400	<5000	
01/21/97	1750		<75	<73	<82	<159	<74	<90	<121	<81	<159	<178	<77	<71	<76	<88	10900	<107	
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	1200	<0.252	<0.104	<0.128	<0.362	<0.105	2300		21000	<0.127	
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		12000	<0.127	
06/25/98		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		26000	<3000	
01/27/99							3200		3700	3100							25000		

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W03B

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/17/91		<1.02		5.17	<0.51	<0.51	2.1		<0.51		<0.51			<1.02	<0.51	<1.02		394	<0.51
02/22/92		<1		<1	<0.5	<0.5	<1		1.9		<0.5			<1	<0.5	<1		25.4	<0.5
09/17/92		<1		1.04	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		215	<0.5
12/18/92		<1		<1	<0.5	<0.5	<1		1.61		<0.5			<1	<0.5	<1		103	1.31
03/23/93		<10		<3	<1	<1	<3		<1		<1			<5	<5	<5		17.8	<1
06/29/93	75		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	1300	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	24	
06/22/94	11		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	180	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	60	<10
07/10/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	11	<10	<20	<10	110	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		71	<0.127
06/24/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		16	<3
06/09/99	3.2																	25	
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	4.4		49	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		<1	
06/04/87																		14.8	
09/03/87																		<1	
12/03/87																		<1	
03/03/88																		<1	
04/07/88																		<1	
08/10/88																		220	
11/15/88																		153	
01/26/89																		3.63	
04/27/89																		1.18	
07/27/89																		<1	
10/26/89																		<1	
01/25/90																		11.5	
05/03/90																		4.04	
09/20/90																		3.3	
12/11/90																		<1	
01/29/91																		3.21	
05/01/91																		36.7	
06/17/91																		1.12	
10/08/91																		4.7	
02/20/92		<1		1.02	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		11	3.5
06/14/92		<1.05		6.69	<0.526	3.77	<1.05		<0.526		<0.526			<1.05	<0.526	<1.05		55.3	<0.526
09/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		23	<0.5
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		4.85	<0.5
03/23/93		<20		<6	<2	<2	<6		<2		<2			<10	<10	<10		<10	<2
06/28/93	19		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	130	
12/27/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	12	
04/25/94	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	<1	
06/21/94	10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	480	
10/04/94	<50		<100	<50	<50	<50	<100	<50		<50	<50		<100	<50	<50	<100	<50	470	
01/05/95	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	98	

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

Date	2,3,4,6- Tetrachlorophenol	2,3,5,6- Tetrachlorophenol	2,4,5- Trichlorophenol	2,4,6- Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2- Methylphenol	4-Chloro-3- Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
03/09/95	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	<10	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10
09/13/95	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	<1	<10
12/18/95	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	<1	<10
03/20/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	6.4	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	1.4	<10
09/25/96	<1.5		<1.5	<1.4	<1.6	<3.1	<1.4	<1.7	<2.3	<1.6	<3.1		<3.5	<1.5	<1.4	<1.5	<1.7	<1.4	<2.1
01/21/97	<1.4		<1.3	<1.2	<1.4	<2.7	<1.3	<1.5	<2.1	<1.4	<2.7		<3	<1.3	<1.2	<1.3	<1.5	<1.2	<1.8
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	5.6		<0.209	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	8.4	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	4.3		<0.209	<0.127
06/23/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		<3	<3
01/26/99			11	7.7	3.6		3												
06/07/99																			
01/11/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3		<3	<3
07/17/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	3.5		<3	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W09

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/04/87																		2.2	
09/03/87																		<1	
12/03/87																		<1	
03/02/88																		<1	
04/07/88																		<1	
08/10/88																		1.05	
11/15/88																		<1	
01/26/89																		<1	
04/27/89																		<1	
07/27/89																		<1	
10/26/89																		<1	
01/25/90																		6.51	
05/03/90																		<1	
09/20/90																		2.37	
12/11/90																		1.53	
01/29/91																		8.59	
05/01/91																		2.07	
06/18/91																		<1	
10/08/91																		5.23	
06/18/92		11		3.79	<0.515	1.29	<1.03		<0.515		<0.515			<1.03	<0.515	<1.03		21.9	2.28
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	1.77		26.7	<0.5
06/28/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	<1	
12/28/93	<100		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	360	640	
06/22/94	<100		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	120	
07/05/95	<26		<10	<10	<10	<10	<51		<10	<10.2	<10		<20.4	<51	<20	<51	<26	<51	<10
07/09/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	<100	<100	<200	<100	57	<100
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		250	<0.127
06/24/98		<3	7.7	5.6	<3	<3	8.5	<3	<3	<3	<3		<3	7.3	3.4	5.2		4.4	<3
06/07/99	4						20				3.9							7	
07/18/00	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		62	<15	59		33	<15

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W10A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		10800	
06/04/87																		3200	
09/03/87																		7510	
12/03/87																		4830	
03/03/88																		13500	
04/07/88																		12100	
08/10/88																		11900	
11/15/88																		8600	
01/26/89																		11500	
04/27/89																		8580	
07/27/89																		15200	
10/26/89																		10100	
01/25/90																		12700	
05/03/90																		8450	
09/20/90																		8520	
12/11/90																		9320	
01/29/91																		12300	
05/01/91																		29800	
06/19/91																		9550	
10/08/91																		16500	
07/08/92		13.1		108	<0.526	1.67	47.4		<0.526		4.82			<1.05	<0.526	3.78		7400	0.714
12/18/92		19.7		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	12.3		11800	60.4
06/30/93	650		220	<100	<100	<100	450	<100		<100	<100		<200	<100	<100	<200	<100	11000	
12/28/93	1000		<200	<100	120	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	14000	
06/22/94	1600		540	450	<100	<100	470	<100		<100	<100		<200	<100	<100	240	<100	17000	
07/06/95	960		<250	<250	<250	<250	<1300		<250	<250	<250		<500	<1300	<500	<1300	<630	6600	<250
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000		<10000	<5000	<5000	<10000	<5000	970	<5000
07/11/97	1700		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		24000	800
06/24/98		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		<150	<150	<150	<150		600	<150
06/08/99																		3450	
07/17/00	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		<300	<300	340		9900	770

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W10B

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
07/08/92		<1.07		<1.07	1.31	<0.535	<1.07		<0.535		<0.535			<1.07	<0.535	<1.07		39.2	<0.535
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		30.3	<0.5
06/29/93	1.8		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	8.4	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	23	
06/22/94	66		27	16	<10	<10	<20	<10		<10	<10		<20	<10	17	<20	<10	33	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10
07/09/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	7.7	<10
07/11/97	8.5		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		76	<0.127
06/24/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		11	<3
06/08/99																		3.4	
07/17/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30	<30		<30	<30

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W11

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		2050	
06/04/87																		2410	
09/03/87																		49.3	
12/03/87																		163	
03/03/88																		824	
04/07/88																		<1	
08/10/88																		1000	
11/15/88																		329	
01/26/89																		321	
04/27/89																		384	
07/27/89																		142	
10/26/89																		1.66	
01/25/90																		300	
05/03/90																		736	
09/21/90																		2940	
12/12/90																		2690	
01/30/91																		3080	
05/01/91																		2410	
06/19/91																		1420	
10/08/91																		891	
06/18/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51			<1.02	<0.51	<1.02		44.4	7.16
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		209	<0.5
06/30/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	82	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	70	
06/21/94	17		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	140	
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10
07/09/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	25	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		8.3	<0.127
06/24/98		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		<15	<15	<15	<15		88	<15
06/08/99							180											180	
07/18/00	3.6		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	3.2		170	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W12

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/18/92		<1.03		<1.03	<0.515	<0.515	<1.03		<0.515		<0.515			<1.03	<0.515	<1.03		2.83	11.4
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		3.67	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	<1	
12/28/93	<1.1		<1.1	<1.1	<1.1	<11	<1.1	<1.1		<11	<1.1		<22	<1.1	<11	<1.1	<1.1	<1.1	
06/21/94	<10		<20	<10	<10	<10	<20	<10		<10	14		<20	<10	<10	<20	<10	73	
07/06/95	47		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	210	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	1.5	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		3.5	<0.127
06/23/98		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30	<30	<30		220	<30
06/08/99																		290	
07/17/00	21.5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	3.15		510	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W13

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/22/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51			<1.02	<0.51	<1.02		636	4.42
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		4550	<0.5
06/30/93	<100		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	540	
12/27/93	120		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	1800	
04/25/94	190		25	<10	<10	<10	21	<10		<10	<10		<20	11	<10	<20	<10	520	
06/22/94	120		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	1500	
10/04/94	12		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	220	
03/10/95	<100		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	530	
07/06/95	33		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	390	<10
09/13/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	<100	<100	<200	<100	110	<100
03/20/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	<100	<100	<200	<100	740	<100
07/10/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	<100	<100	<200	<100	28	<100
09/25/96	99		<0.73	1.4	<0.8	<1.5	<0.72	<0.87	<1.2	<0.79	<1.5		<1.7	<0.75	<0.69	<0.74	<0.85	754	<1
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		260	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		140	<0.127
06/24/98		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30	<30	<30		150	<30
01/26/99																		120	
06/09/99																		55.5	
01/11/00	20		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		<15	<15	<15		290	<15
07/18/00	16		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	3.4		300	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W14

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		<1	
06/04/87																		<1	
09/03/87																		<1	
12/03/87																		4.74	
03/03/88																		<1	
04/07/88																		<1	
08/10/88																		<1	
11/15/88																		<1	
01/26/89																		1.93	
04/27/89																		<1	
07/27/89																		<1	
10/26/89																		<1	
01/25/90																		<1	
05/03/90																		<1	
09/21/90																		1.64	
12/12/90																		<1	
01/30/91																		1.65	
05/01/91																		2.79	
06/18/91																		<1	
10/08/91																		6.49	
06/24/92		<1.02		<1.02	2.39	<0.51	<1.02		<0.51		<0.51			1.23	0.582	<1.02		<1.02	<0.51
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		2.43	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	<1	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	11	
06/21/94	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	26	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	<1	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	5		4.7	<0.127
06/23/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		6.6	<3
06/07/99																			
07/17/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	4		7.4	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W16

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		12.4	
06/04/87																		27.3	
09/03/87																		<1	
12/03/87																		<1	
03/03/88																		13.9	
04/07/88																		<1	
08/10/88																		13.7	
11/15/88																		19.8	
01/26/89																		2.34	
04/27/89																		265	
07/27/89																		2.04	
10/26/89																		1.49	
01/25/90																		31	
05/03/90																		1.66	
09/21/90																		3.44	
12/12/90																		1.93	
01/30/91																		4.53	
05/01/91																		<1	
06/19/91																		2.03	
10/08/91																		5.35	
06/16/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51			<1.02	<0.51	<1.02		<1.02	27.6
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		4.79	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	<1	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	11	
06/21/94	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	43	
07/06/95	<34		<14	<14	<14	<14	<69		<14	<13.7	<14		<27.4	<69	<27	<69	<34	<69	<14
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	<1	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		2.9	<0.127
06/24/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		<3	<3
06/07/99																			
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	3.2		9.6	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W18

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/25/92		<10		146	<5	<5	<10		<5		17.3			<10	<5	<10		11800	<5
07/08/92		17		<1.02	70.8	9.67	85.9		<0.51		3.6			<1.02	24.9	<1.02		9380	27
09/17/92		47.8		<1	29.6	<0.5	<1		1.68		4.25			4.39	<0.5	102		11600	<0.5
12/17/92		33.8		<1	15	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		19500	60.7
03/23/93		<20		<6	<2	<2	<6		<2		<2			<10	<10	<10		7470	<2
06/29/93	750		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	13000	
12/28/93	840		52	170	<10	23	45	16		14	<10		<20	<10	100	<20	<10	5600	
06/22/94	1000		400	400	220	<100	350	<100		<100	<100		<200	<100	<100	<200	<100	11000	
07/05/95	<640		<260	<260	<260	<260	<1300		<260	<255	<260		<510	<1300	<510	<1300	<640	5100	<260
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000		<10000	<5000	<5000	<10000	<5000	1100	<5000
07/11/97	<0.182		55	<0.469	<0.344	53	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	67	<0.351		15000	320
06/24/98		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		<300	<300	<300	<300		2500	<300
06/08/99																		250	
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	3.3		80	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W21

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		1.96	
06/04/87																		<1	
09/03/87																		<1	
12/03/87																		<1	
03/03/88																		<1	
04/07/88																		<1	
08/10/88																		5.55	
11/15/88																		182	
01/26/89																		2.47	
04/27/89																		<1	
07/27/89																		<1	
10/26/89																		<1	
01/25/90																		3.86	
05/03/90																		1.09	
09/21/90																		8.96	
12/12/90																		2.36	
01/30/91																		1.84	
05/01/91																		<1	
06/19/91																		2.33	
10/08/91																		4.21	
06/24/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51			<1.02	<0.51	<1.02		<1.02	<0.51
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		26.5	2.63
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	2.8	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	33	
06/22/94	100		56	27	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	44	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	<1	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		3.1	<0.127
06/23/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		5.1	<3
06/07/99																			
07/17/00	<3		<3	<3	<3	3.8	<3	<3	<3	<3	<3	<3		<3	<3	3.4		10	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W22

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
02/25/92		<10		<10	<5	<5	<10		<5		<5		12	<5	<10		37300	<5	
06/14/92		73.1		<11.1	77.9	<5.56	<11.1		<0.556		<5.56		1.7	<5.56	<1.11		33500	<0.556	
09/17/92		<1		<1	1.62	<0.5	<1		<0.5		<0.5		<1	<0.5	1.14		117	<0.5	
12/18/92		69.9		1230	<0.5	<0.5	<1		<0.5		70.1		<1	<0.5	25.8		74300	119	
03/24/93		<20		<6	<2	<2	<6000		<2		<2		<10	<10	<10		81440	<2	
06/30/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	1.4		<20
12/28/93	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	1500		460
04/25/94	430		<20	<10	140	110	45	66		17	110	<20	19	130	71	24	1100		27
06/22/94	2900		930	1800	600	<100	200	310		<100	210	<200	150	300	300	<100	6100		<200
10/04/94	190		<100	<50	<50	<50	<100	<50		<50	<50	<100	<50	<50	<100	<50	1400		<100
03/09/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	7300		<2000
07/06/95	<630		<250	<250	<250	<250	<1300		<250	<250	<250	<500	<1300	<500	<1300	<630	2600	<250	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	2000	<1000	
12/18/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	3200	<100	
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	610	<1000	
07/10/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	730	<1000	
09/25/96	1280		<7.3	<7.1	<8	<15	<7.2	<8.7	<12	<7.9	<15	<17	<7.5	<6.9	<7.4	<8.5	7540	<10	
01/21/97	1180		<37	<36	<40	<78	<36	<44	<59	<40	<78	<87	<38	<35	<37	<43	5800	<53	
07/11/97	3100		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	500	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		17000	<0.127	
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		12000	<0.127	
06/24/98		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		6800	<1500	
01/26/99							11000	12000	49500	15500	10550	4350					36000	111500	

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W25

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
02/19/92		<1		<1	7.15	8	<1		5.85		<0.5		0	<1	<0.5	<1	0	3570	<0.5	0
07/29/92		10.3		1.3	9.9	1.87	3.09		<0.5		<0.5		0	<1	1.64	1.75	0	71.1	<0.5	0
09/17/92		<1		10.4	2.1	<0.5	1.57		0.547		<0.5			<1	<0.5	1.29		55.4	<0.5	
12/17/92		7.02		4.04	10.2	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		42.2	<0.5	
03/23/93		<20		<6	<2	<2	<6		<2		<2			<10	<10	<10		99.9	<2	
06/28/93	<10		<20	<10	<10	<10	<20	<10		12	53		<20	<10	<10	38	<10	<10		37
12/28/93	16		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	4.3		<20
04/25/94	140		310	260	53	52	190	42		<10	19		23	17	100	28	<10	410		<20
06/21/94	280		140	110	110	32	60	32		23	77		<20	33	41	71	<10	2400		34
10/04/94	<250		<500	<250	<250	<250	<500	<250		<250	<250		<500	<250	<250	<500	<250	2300		<500
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000		<2000	<1000	<1000	<2000	<1000	4500		<2000
03/23/95	12		95	220	120	65	51	<10		19	54		29	150	10	<20	<10	360		170
05/02/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	180	<100	<200	<100	1700	<100	
05/24/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	160	<100	<200	<100	1600	<100	
06/13/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	110	<100	<200	<100	1500	<100	
07/05/95	320		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	560	<10	
07/26/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	160	<100	<200	<100	180	<100	
09/07/95	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	2.8	<10	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000		<2000	<1000	<1000	<2000	<1000	810	<1000	
01/18/96	<10		<10	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	10		<20
03/21/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	<1	<10	
07/11/97	<0.182		<0.453	<0.469	150	<0.148	230	170	<0.194	140	160		<0.128	<0.362	<0.105	<0.351		590	120	
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		120	<0.127	
06/23/98		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		<150	<150	<150	<150		880	<150	
01/26/99																		290		
06/09/99																		230		
01/11/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30	<30		330	<30	
07/18/00	7.4		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	4.7		160	20	

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W26

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/25/92		<10		<10	<5	<5	<10		<5		25.7			<10	<5	<10		22300	<5
06/14/92		69.9		<10.5	<5.26	<5.26	<1.05		<0.526		<5.26			<1.05	<5.26	<1.05		26100	<0.526
09/17/92		74		<1	177	<0.5	<1		5.74		110			<1	<0.5	139		31700	<0.5
12/18/92		40.6		<1	<0.5	<0.5	<1		<0.5		71.2			<1	<0.5	<1		45100	152
03/24/93		<10		<3	<1	<1	<3000		<1		<1			<5	<5	<5		30400	<1
06/30/93	1600		<200	<100	130	<100	450	<100		<100	<100		<200	<100	<100	<200	<100	16000	
12/27/93	1600		380	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	3500	
04/25/94	4800		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000		<2000	<1000	<1000	<2000	<1000	32000	
06/22/94	2900		690	1100	250	<100	480	270		<100	180		<200	<100	280	230	<100	6400	
10/04/94	4100		<500	<250	450	<250	<500	<250		<250	<250		<500	<250	<250	<500	<250	12000	
03/09/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000		<2000	<1000	<1000	2900	<1000	14000	
07/06/95	7600		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<5000	<10
09/13/95	<1000		<1000	1100	<1000	<1000	<2000	<1000	<1000	<1000	<1000		<2000	2900	<1000	<2000	<1000	4000	<1000
03/21/96	<2000		<2000	<2000	<2000	<2000	<4000	<2000	<2000	<2000	<2000		<4000	<2000	<2000	<4000	<2000	8200	<2000
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000		<10000	<5000	<5000	<10000	<5000	1800	<5000
09/25/96	2950		<7.3	87	<8	<15	<7.2	<8.7	<12	<7.9	<15		<17	<7.5	54	<7.4	<8.5	17300	<10
07/11/97	5100		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		47000	1100
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		14000	<0.127
06/24/98		1600	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		<1500	<1500	<1500	<1500		15000	<1500
01/27/99																		18000	
06/09/99																		4600	
01/11/00	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		<1500	<1500	<1500		12500	<1500
07/18/00	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		<1500	<1500	1600		23000	<1500

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W27

Date	2,3,4,6- Tetrachlorophenol	2,3,5,6- Tetrachlorophenol	2,4,5- Trichlorophenol	2,4,6- Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2- Methylphenol	4-Chloro-3- Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/24/92		23.5		<10.5	<5.26	<5.26	<10.5		<5.26		32.3			<10.5	15.7	<10.5		16600	74.4
12/17/92		<1		<1	19	7.9	<1		<0.5		<0.5			<1	81.2	<1		21300	105
06/30/93	710		<200	<100	<100	<100	<200	<100		<100	<100		<200	<100	<100	<200	<100	10000	
12/28/93	3000		400	<100	320	<100	<200	<100		110	<100		<200	370	<100	<200	<100	30000	
06/22/94	3000		210	980	150	<100	250	<100		<100	<100		<200	<100	270	340	<100	33000	
07/06/95	<1300		<500	<500	<500	<500	<2500		<500	<500	<500		<1000	<2500	<1000	<2500	<1300	7700	<500
07/09/96	<10000		<10000	<10000	<10000	<10000	<20000	<10000	<10000	<10000	<10000		<20000	<10000	<10000	<20000	<10000	3900	<10000
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		25000	530
06/24/98		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		<3000	<3000	<3000	<3000		16000	<3000
06/08/99																		14000	
07/18/00	1125		800	<150	<150	<150	600	<150	<150	<150	<150	<150		<150	<150	400		13000	755

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W28

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		350	
06/04/87																		887	
09/03/87																		488	
12/03/87																		2710	
03/03/88																		10000	
04/07/88																		6480	
08/10/88																		1100	
11/15/88																		466	
01/26/89																		1750	
04/27/89																		3670	
07/27/89																		57.4	
10/26/89																		226	
01/25/90																		301	
05/03/90																		4460	
09/20/90																		2260	
12/11/90																		2120	
01/29/91																		3150	
05/01/91																		4600	
06/18/91																		4600	
10/08/91																		4270	
07/08/92		<1.49		<1.49	<0.746	<0.746	<1.49		<0.746		<0.746			<1.49	<0.746	<1.49		793	<0.746
12/17/92		4.29		2.62	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		6640	3.15
06/29/93	120		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	2300	
12/28/93	46		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	800	
06/22/94	53		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	660	
07/05/95	87		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	380	<10
07/09/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100		<200	<100	<100	<200	<100	83	<100
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		150	<0.127
06/24/98		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	<6	<6	<6		61	<6
06/08/99																		34	
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3		4.6	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W29

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		10300	
06/04/87																		33900	
09/03/87																		12700	
12/03/87																		18600	
03/03/88																		16400	
04/07/88																		560	
08/10/88																		1600	
11/15/88																		12800	
01/26/89																		19000	
04/27/89																		16500	
07/27/89																		12700	
10/26/89																		8520	
01/25/90																		4960	
05/03/90																		37.2	
09/21/90																		1420	
12/11/90																		921	
01/30/91																		373	
05/01/91																		419	
06/25/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51			<1.02	<0.51	<1.02		120	0.714
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		1100	3.31
06/30/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	65	
12/28/93	81		66	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	440	
06/22/94	31		30	21	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	120	
07/05/95	140		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	210	<10
07/09/96	<10		93	60	24	<10	73	<10	<10	<10	<10		<20	450	24	55	<10	2300	38
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		1500	<0.127
06/23/98		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		<600	<600	<600	<600		5500	<600
06/08/99																			
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	6.2		19	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W32

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																		<1	
06/04/87																		<1	
09/03/87																		<1	
12/03/87																		<1	
03/03/88																		<1	
04/07/88																		<1	
08/10/88																		1.45	
11/15/88																		<1	
01/26/89																		<1	
04/27/89																		<1	
07/27/89																		<1	
10/26/89																		<1	
01/25/90																		1.67	
05/03/90																		1.14	
09/21/90																		2.13	
12/11/90																		<1	
01/30/91																		8.36	
05/01/91																		<1	
06/19/91																		1.33	
10/08/91																		3.61	
06/24/92		<1.02		<1.02	<0.51	<0.51	2.05		<0.51		<0.51			<1.02	<0.51	<1.02		2.08	0.583
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		<1	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1		<20	<1	<10	<1	<1	<1	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	10	
06/22/94	<10		<20	<10	<10	<10	<20	<10		<10	<10		<20	<10	<10	<20	<10	15	
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<10		<20	<50	<20	<50	<25	<50	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10		<20	<10	<10	<20	<10	5.1	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	5.6		<0.128	<0.362	<0.105	<0.351		7.2	<0.127
06/23/98		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3		7.9	<3
06/07/99																			
07/17/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	4.2		<3	<3

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W36

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/20/92		<1		<1	<0.5	22.1	<1		<0.5		<0.5			<1	<0.5	<1		7180	<0.5
08/03/92		<1		<10	11.3	<0.5	<10		<5		<5			<1	<0.5	<1		14800	155
09/17/92		26		<1	132	29.2	15.2		<0.5		240			<1	<0.5	67		8350	<0.5
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000		<2000	<1000	<1000	<2000	<1000	1700	<1000
07/10/96	<500		<500	<500	<500	<500	<1000	<500	<500	<500	<500		<1000	<500	<500	<1000	<500	1800	<500
07/11/97	120		94	71	480	210	660	430	<0.194	1400	1200		440	<0.362	240	110		1600	1600
01/02/98	57		<0.453	<0.469	310	170	430	230	<0.194	540	420		190	150	160	<0.351		480	<0.127
06/25/98		<30	<30	<30	<30	<30	<30	<30	93	46	52		<30	<30	<30	<30		190	46
01/27/99			30						89	43			33					240	60
06/09/99																		68	
01/11/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30	<30		280	<30
07/18/00	<3		<3	<3	12.5	4.75	<3	13	130	32	9.75	52.5		<3	<3	9		65	62

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W39

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/17/92		360		236	835	569	<10.3		<25.8		<25.8			13.3	33.9	171		9290	<25.8
12/18/92		403		267	1710	<50	<100		<50		<50			<100	<50	178		13900	<50
06/21/94	2900		1000	3500	6900	2700	420	1500		<100	5200		8400	310	550	1300	<100	6900	
03/10/95	<1000		<2000	<1000	<1000	1500	<2000	<1000		3600	10000		3100	<1000	<1000	<2000	<1000	3700	
09/13/95	<1000		<1000	<1000	<1000	1500	<2000	<1000	<1000	3300	<1000		<2000	<1000	<1000	<2000	<1000	1200	<1000
12/18/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	2100	2800		4400	<1000	<1000	<2000	<1000	2400	<1000
03/20/96	<1000		<1000	<1000	1100	1500	<2000	<1000	5000	2300	6700		<2000	<1000	<1000	<2000	<1000	1900	6900
07/09/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000		<2000	<1000	<1000	<2000	<1000	170	1000
01/21/97	<7.9		<7.5	<7.3	<8.2	<16	<7.4	<9	<12	<8.1	<16		<18	<7.7	<7.1	<7.6	<8.8	782	<11
07/11/97	<0.182		<0.453	<0.469	2800	<0.148	<0.269	3400	<0.194	3800	3300		<0.128	<0.362	<0.105	<0.351		2300	3600
01/02/98	<0.182		<0.453	310	2600	<0.148	2400	710	2400	3800	2200		<0.128	840	1200	<0.351		1100	<0.127
06/24/98		<150	<150	<150	<150	<150	<150	400	640	510	320		<150	<150	<150	<150		830	2800
06/09/99									510		180							1800	560
07/19/00	<1500		<1500	<1500	3200	<1500	<1500	3900	10000	4200	5200	8900		<1500	<1500	3300		3300	13000

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W41

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3 & 4-Methylphenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/25/92		<20		<20	119	<10	<20		<10		85.9			<20	68	<20		8610	<10
06/16/92		441		703	227	60.9	170		<5.1		143			<51	44.1	<51		16600	<5.1
09/17/92		<1		<1	<0.5	<0.5	223		<0.5		<0.5			<1	<0.5	109		6070	<0.5
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5			<1	<0.5	<1		16400	<0.5
03/24/93		<8000		<2400	<800	<800	<2400		<800		<800			<4000	<4000	<4000		14300	<800
06/30/93	3600		<200	<100	<100	<100	<200	3600		<100	<100		<200	<100	1600	<200	<100	32000	
12/28/93	710		<200	150	320	260	<200	140		180	150		<200	<100	<100	<200	<100	9500	
04/25/94	1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000		<2000	<1000	<1000	<2000	<1000	12000	
06/21/94	930		980	820	430	110	1100	210		<100	330		<200	230	250	500	<100	4900	
10/04/94	<500		<1000	<500	<500	<500	<1000	<500		<500	<500		<1000	<500	<500	<1000	<500	690	
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000		<2000	<1000	<1000	<2000	<1000	3600	
07/06/95	480		<11	<11	<11	<11	<53		<11	<10.65	<11		<21.3	<53	<21	<53	<27	3400	<11
09/13/95	<1000		<1000	3400	<1000	<1000	<2000	<1000	<1000	<1000	<1000		<2000	<1000	<1000	<2000	<1000	9600	<1000
03/20/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000		<2000	<1000	<1000	<2000	<1000	7000	<1000
07/09/96	<2500		<2500	<2500	<2500	<2500	<5000	<2500	<2500	<2500	<2500		<5000	<2500	<2500	<5000	<2500	10000	<2500
09/25/96	1130		<7.3	<7.1	<8	<15	<7.2	<8.7	<12	<7.9	<15		<17	<7.5	<6.9	<7.4	<8.5	13800	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		18000	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104		<0.128	<0.362	<0.105	<0.351		3700	<0.127
06/24/98		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		<600	<600	<600	<600		5200	<600
01/26/99				690		820		730		890	760				630			6700	1500
06/08/99																		5800	
01/11/00	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		<600	<600	<600		7800	<600
07/19/00	<150		330	<150	<150	<150	250	<150	<150	<150	<150	170		<150	<150	240		3500	320

A3

Volatile Organic Compounds

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - 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	07/10/96	07/11/97	06/23/98	06/09/99	07/18/00
1,1,1,2-Tetrachloroethane					<1		<1	<1		<1	<0.1	<0.3	<0.3	<4
1,1,1-Trichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3
1,1,2,2-Tetrachloroethane	<5	<5	<50	<5	<1	<1	<1	<1	1.5	<1	<0.2	<0.2	<0.2	<4
1,1,2-Trichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<2
1,1-Dichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4
1,1-Dichloroethene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<9
1,1-Dichloropropene					<1		<1	<1		<1	<0.2	<0.3	<0.3	<4
1,2,3-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<5
1,2,3-Trichloropropane					<1		<1	<1		<1	<0.3	<0.2	<0.2	<3
1,2,4-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<5
1,2,4-Trimethylbenzene					140	430	68	320		89.6	300	290	100	130
1,2-Dibromo-3-chloropropane					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<3
1,2-Dibromoethane					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<3
1,2-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3
1,2-Dichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4
1,2-Dichloropropane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<3
1,3,5-Trimethylbenzene					38	110	21	130		14.4	130	140	150	97
1,3-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<4
1,3-Dichloropropane					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<4
1,4-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<4
2,2-Dichloropropane					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<2
2-Butanone (MEK)	<10	<10	<100	<10										
2-Chloroethyl vinyl ether									<10					
2-Chlorotoluene					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<4
2-Hexanone	<10	<10	<100	<10										
4-Chlorotoluene					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<3
4-Methyl-2-Pentanone (MIBK)	<10	<10	<100	<10										
Acetone	<10	<10	2230	11.7										
Benzene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<1
Bromobenzene					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<5
Bromochloromethane					<1		<1	<1		<1	<0.4	<0.2	<0.2	<4
Bromodichloromethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<2
Bromoform	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<1
Bromomethane	<10	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<4
Carbon disulfide	<5	<5	<50	<5										
Carbon tetrachloride	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - 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	07/10/96	07/11/97	06/23/98	06/09/99	07/18/00
Chlorobenzene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3
Chlorodibromomethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<4
Chloroethane	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<5
Chloroform	<5	6.19	<50	<5	5.2	5.2	4.2	1.4	1.1	2.3	<0.2	<0.2	<0.2	<5
Chloromethane	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<3
cis-1,2-Dichloroethene					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4
cis-1,3-Dichloropropene	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<2
Dibromomethane					<1		<1	<1		<1	<0.1	<0.2	<0.2	<4
Dichlorodifluoromethane					<2	<2	<2	<2		<2	<0.3	<1.2	<1.2	<5
Diisopropyl Ether						<1							<0.3	<1
Ethylbenzene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<1
Hexachlorobutadiene					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<6
Isopropylbenzene					26	25	4.2	27		3.1	<0.2	38	12	<1
Methyl tert-butyl ether						<1							<0.2	<11
Methylene chloride	<5	<5	116	14.1	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<19
n-Butylbenzene					34	130	28	140		15.2	160	180	150	170
n-Propylbenzene					7	25	5.2	23		5.0	<0.3	76	10	<3
Naphthalene	<10	<11	<10	<10	6	38	4.2	19	2.9	3.8	<0.8	17	7.5	<7
p-Isopropyltoluene					<1	39	9.7	50		4.0	24	67	60	34
sec-Butylbenzene					12	24	8.7	32		3.8	14	48	31	18
Styrene	<5	<5	<50	<5	4.4		<1	<1		<1	<0.2	<0.2	<0.2	<2
tert-Butylbenzene					<1	<1	<1	48		<1	<0.3	<0.3	<0.3	<1
Tetrachloroethene	<5	<5	<50	<5	<1	<1	<1	6.3	<1	<1	<0.3	<0.6	<0.6	<4
Toluene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<1
trans-1,2-Dichloroethene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<8
trans-1,3-Dichloropropene	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<5
Trichloroethene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<3
Trichlorofluoromethane					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<4
Vinyl acetate	<10	<10	<100	<10										
Vinyl chloride	<10	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<4
Xylene, o-					8.9	30	6.3	49	1.4	7.4	<0.2	<0.5	24	<1
Xylene, m & p-					<2	15	2.8	15	<2	4.6	<0.4	24	<0.3	<2
Xylenes, Total	<5	5.88	<50	18.3	8.9	45	9.1	64	1.4	12.0	<0.6	24	24	<3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Parameter	02/20/92	06/14/92	09/17/92	12/18/92	03/24/93	06/22/94	07/06/95	07/10/96	07/11/97	06/25/98
1,1,1,2-Tetrachloroethane					<1	<1		<10	<0.1	<0.3
1,1,1-Trichloroethane	<5	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2
1,1,2-Trichloroethane	<5	<5	<50	<5	<1	<1	<20	<10	<1	<0.2
1,1-Dichloroethane	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2
1,1-Dichloroethene	<5	<5	<50	<5	<1	<1	<20	<10	<0.4	<0.2
1,1-Dichloropropene					<1	<1		<10	<0.2	<0.3
1,2,3-Trichlorobenzene					<1	<1		<10	<0.5	<0.4
1,2,3-Trichloropropane					<1	<1		<10	<0.3	<0.2
1,2,4-Trichlorobenzene					<1	<1		<10	<0.5	<0.3
1,2,4-Trimethylbenzene					490	850		623.6	1400	1300
1,2-Dibromo-3-chloropropane					<3	<3		<30	<0.3	<0.3
1,2-Dibromoethane					<2	<2		<20	<0.2	<0.4
1,2-Dichlorobenzene					<1	<1	<20	<10	<0.3	<0.3
1,2-Dichloroethane	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2
1,2-Dichloropropane	<5	<5	<50	<5	<1	<1	<20	<10	<0.1	<0.2
1,3,5-Trimethylbenzene					120	200		21.291	420	415
1,3-Dichlorobenzene					<1	<1	<20	<10	<0.7	<0.4
1,3-Dichloropropane					<1	<1		<10	<0.3	<0.6
1,4-Dichlorobenzene					<1	<1	<20	<10	<0.3	<0.3
2,2-Dichloropropane					<1	<1		<10	<0.2	<0.5
2-Butanone (MEK)	<10	<10	<100	<10						
2-Chloroethyl vinyl ether							<200			
2-Chlorotoluene					<1	<1		<10	<0.4	<0.3
2-Hexanone	<10	<10	<100	<10						
4-Chlorotoluene					<1	<1		<10	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<10	<100	<10						
Acetone	<10	<10	1620	16.8						
Benzene	<5	<5	<50	<5	2.8	4	<20	<10	<0.2	<0.3
Bromobenzene					<1	<1		<10	<0.3	<0.2
Bromochloromethane					<1	<1		<10	<0.4	<0.2
Bromodichloromethane	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2
Bromoform	<5	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.2
Bromomethane	<10	<10	<100	<10	<2	<2	<40	<20	<0.3	<0.9

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W02

Parameter	02/20/92	06/14/92	09/17/92	12/18/92	03/24/93	06/22/94	07/06/95	07/10/96	07/11/97	06/25/98
Carbon disulfide	<5	<5	<50	<5						
Carbon tetrachloride	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.4
Chlorobenzene	<5	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3
Chlorodibromomethane	<5	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3
Chloroethane	<10	<10	<100	<10	<2	<2	<40	<20	<0.4	<0.8
Chloroform	<5	6.24	<50	<5	3.2	4.3	<20	<10	<0.2	<0.2
Chloromethane	<10	<10	<100	<10	<2	<2	<40	<20	<0.7	<0.9
cis-1,2-Dichloroethene					<1	<1	<20	<10	<0.2	<0.2
cis-1,3-Dichloropropene	<5	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3
Dibromomethane					<1	<1		<10	<0.1	<0.2
Dichlorodifluoromethane					<2	<2		<20	<0.3	<1.2
Ethylbenzene	28	25.1	<50	25.2	17	18	<20	<10	35	67.5
Hexachlorobutadiene					<1	<1		<10	<0.5	<0.6
Isopropylbenzene					38	35		11.404	60	85
Methylene chloride	<5	<5	745	10.4	<3	<3	<60	<30	<0.3	<0.5
n-Butylbenzene					85	140		91.59	140	180
n-Propylbenzene					43	49		67.52	<0.3	140
Naphthalene	130	55.4	84.6	74	140	49	73	84.929	180	195
p-Isopropyltoluene					<1	<1		<10	<0.4	72.5
sec-Butylbenzene					36	43		<10	30	72.5
Styrene	<5	<5	<50	<5	16	<1		<10	<0.2	<0.2
tert-Butylbenzene					<1	<1		<10	<0.3	<0.3
Tetrachloroethene	<5	<5	<50	<5	<1	7.6	<20	<10	<0.3	<0.6
Toluene	9	5.61	<50	<5	3.5	3.8	<20	<10	<0.2	40
trans-1,2-Dichloroethene	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.3
trans-1,3-Dichloropropene	<5	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2
Trichloroethene	26	51.1	<50	27.6	16	10	<20	<10	<0.2	<0.3
Trichlorofluoromethane					<1	<1	<20	<10	<0.5	<0.6
Vinyl acetate		<10	<100	<10						
Vinyl chloride	<10	<10	<100	<10	<1	<1	<20	<10	<0.3	<0.5
Xylene, o-					170	200	97	217.8	550	440
Xylene, m & p-					83	52	<40	155.2	180	210
Xylenes, Total	<5	181	257	292	253	252	97	373.0	730	650

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - 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	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00
1,1,1,2-Tetrachloroethane					<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene					<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane					<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene					<1	5	3.8	8.2		4.6	<0.7	5.8	1.3	<0.2
1,2-Dibromo-3-chloropropane					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene					<1	2.4	1.8	3.3		2.4	<0.4	3.2	1.3	<0.3
1,3-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10	<100	<10										
2-Chloroethyl vinyl ether									<10					
2-Chlorotoluene					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10	<100	<10										
4-Chlorotoluene					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10	<100	<10										
Acetone	<100	12.3	1040	<10										
Benzene	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane					<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5	<50	<5										
Carbon tetrachloride	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3
Chlorobenzene	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - 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	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00
Chloroethane	<100	<10	<100	<10	<2	<10	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<100	<10	<2	<20	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane					<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane					<2	<40	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether						<1							<0.3	<0.1
Ethylbenzene	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene					<1	<1	<1	<1		<1	<0.2	0.8	<0.2	<0.1
Methyl tert-butyl ether						<1							<0.2	<1.1
Methylene chloride	<50	<5	534	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene					<1	<1	1.6	3		3.6	<0.6	3.2	3.1	<0.4
n-Propylbenzene					<1	<1	<1	<1		1.1	<0.3	1.1	<0.2	<0.3
Naphthalene	<10	<10	91.6	<10	<1	1.5	<1	<1	<1	1.4	<0.8	1.3	<1.1	<0.7
p-Isopropyltoluene					<1	<1	<1	<1		1.6	<0.4	1.4	0.8	<0.2
sec-Butylbenzene					<1	1.6	<1	<1		1.1	<0.3	1.1	<0.2	<0.3
Styrene	<50	<5	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<50	<5	<1	<1	<1	<1	1.3	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<50	<5	<1	8.9	<1	2.2	1.8	4.4	1	3.5	0.3	0.55
Trichlorofluoromethane					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10	<100	<10										
Vinyl chloride	<100	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, o-					<1	6.4	<1	1.9	<1	2.2	<0.2	<0.5	<0.5	<0.1
Xylene, m & p-					<2	<2	<2	<2	<2	<2	<0.4	1.4	<0.3	<0.2
Xylenes, Total	<50	<5	<50	<5	<3	6.4	<3	1.9	<3	2.2	<0.6	1.4	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

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	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
1,1,1,2-Tetrachloroethane					<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene					<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane					<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene					<1	<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<10	<10	<100	<10										
2-Chloroethyl vinyl ether									<10					
2-Chlorotoluene					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<10	<10	<100	<10										
4-Chlorotoluene					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)		<10	<100	<10										
Acetone	<10	<10	1980	<10										
Benzene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane					<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<10	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<5	<5	<50	<5										
Carbon tetrachloride	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3
Chlorobenzene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W08

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	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
Chloroethane	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	14	8.76	<50	<5	1.8	1.6	<1	1.3	<1	<1	0.9	1.6	<0.2	<0.5
Chloromethane	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane					<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane					<2	<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether						<1							<0.3	<0.1
Ethylbenzene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene					<1	<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether						<1							<0.2	<1.1
Methylene chloride	<5	<5	1210	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene					<1	<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene	<10	<11	<10	<10	<1	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene					<1	<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene		6.24	<50	<5	<1	<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<5	<5	7	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate		<10	<100	<10										
Vinyl chloride	<10	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-					<2	<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-					<1	<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total		<5	<50	<5	<3	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W09

Parameter	06/18/92	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/07/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	1.3		1.8	3.4	1	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	2.2	<1	<1	1.7	1.7	1.5	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W09

Parameter	06/18/92	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/07/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	3.1	<1	4.0	4	0.6	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			2.5	5.7	5.6		10.9	19	10	6.2	4.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			2.9	1.6	1.8		3.8	4.5	3.6	2	1.4
n-Propylbenzene			1.7	<1	3.2		7.8	12	4.8	0.8	<0.3
Naphthalene			<1	<1	2.2	<1	3.1	7.7	4.6	1.8	0.81
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	1.4	<0.2	<0.2
sec-Butylbenzene			2	9.4	7.7		8.4	12	9.2	5.7	5.8
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		1.0	<0.3	1.2	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	1.3	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	1.3	1.8	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	1.1	<0.2	1.4	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	1.1	1.3	3.2	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W10A

Parameter	07/08/92	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/17/00
1,1,1,2-Tetrachloroethane				<1	<1		<10	<0.1	<0.3	<6	<8
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6	<6
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	11	<10	<0.2	<0.2	<4	<8
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<10	<10	<1	<0.2	<4	<4
1,1-Dichloroethane	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<4	<8
1,1-Dichloroethene	<50	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<4	<18
1,1-Dichloropropene				<1	<1		<10	<0.2	<0.3	<6	<8
1,2,3-Trichlorobenzene			<1	<1	<1		<10	<0.5	<0.4	<8	<10
1,2,3-Trichloropropane				<1	<1		<10	<0.3	<0.2	<4	<6
1,2,4-Trichlorobenzene			<1	<1	<1		<10	<0.5	<0.3	<6	<10
1,2,4-Trimethylbenzene			500	900	700		524.8	440	800	530	700
1,2-Dibromo-3-chloropropane			<3	<3	<3		<30	<0.3	<0.3	<6	<6
1,2-Dibromoethane			<2	<2	<2		<20	<0.2	<0.4	<8	<6
1,2-Dichlorobenzene			<1	<1	<1	<10	<10	<0.3	<0.3	<6	<6
1,2-Dichloroethane	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<4	<8
1,2-Dichloropropane	<50	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<4	<6
1,3,5-Trimethylbenzene			170	140	60		27.7	50	130	57	78
1,3-Dichlorobenzene			<1	<1	<1	<10	<10	<0.7	<0.4	<8	<8
1,3-Dichloropropane			<1	<1	<1		<10	<0.3	<0.6	<12	<8
1,4-Dichlorobenzene			<1	<1	<1	<10	<10	<0.3	<0.3	<6	<8
2,2-Dichloropropane			<1	<1	<1		<10	<0.2	<0.5	<10	<4
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<100					
2-Chlorotoluene			<1	<1	<1		<10	<0.4	<0.3	<6	<8
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<10	<0.3	<0.3	<6	<6
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	122	<10									
Benzene	<50	<5	3.3	5.2	5	<10	<10	<0.2	25	<6	<2
Bromobenzene			<1	<1	<1		<10	<0.3	<0.2	<4	<10
Bromochloromethane				<1	<1		<10	<0.4	<0.2	<4	<8
Bromodichloromethane	<50	<5	<1	<1	<1	41	<10	<0.2	<0.2	<4	<4
Bromoform	<50	<5		<1	<1	<10	<10	<0.3	<0.2	<4	<2
Bromomethane	<100	<10		<2	<2	<20	<20	<0.3	<0.9	<18	<8
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.4	<8	<6

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W10A

Parameter	07/08/92	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/17/00
Chlorobenzene	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6	<6
Chlorodibromomethane	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6	<8
Chloroethane	<100	<10	<2	<2	<2	<20	<20	<0.4	<0.8	<16	<10
Chloroform	<50	<5	1.4	<1	1.7	<10	<10	<0.2	<0.2	<4	<10
Chloromethane	<100	<10	<2	<2	<2	<20	<20	<0.7	<0.9	<18	<6
cis-1,2-Dichloroethene			<1	<1	<1	<10	<10	<0.2	<0.2	<4	<8
cis-1,3-Dichloropropene	<50	<5		<1	<1	<10	<10	<0.3	<0.3	<6	<4
Dibromomethane				<1	<1		<10	<0.1	<0.2	<4	<8
Dichlorodifluoromethane			<2	<2	<2		<20	<0.3	<1.2	<24	<10
Diisopropyl Ether			<1							<6	<2
Ethylbenzene	<0.006	35.2	20	38	33	40	34.6	<0.2	40	16	19
Hexachlorobutadiene			<1	<1	<1		<10	<0.5	<0.6	<12	<12
Isopropylbenzene			23	41	39		<10	16	50	51	32
Methyl tert-butyl ether			<1							<4	<22
Methylene chloride	1370	<10	<3	<3	<3	<30	<30	<0.3	<0.5	<10	<38
n-Butylbenzene			110	58	85		71.2	32	88	67	86
n-Propylbenzene			38	57	<1		63.5	34	78	49	54
Naphthalene	20.9	62.6	70	100	12	110	79.4	66	140	125	130
p-Isopropyltoluene			<1	<1	3.4		<10	<0.4	35	7	<4
sec-Butylbenzene			14	24	<1		<10	<0.3	48	33	37
Styrene	<50	<5		<1	<1		<10	<0.2	<0.2	<4	<4
tert-Butylbenzene			<1	<1	250		<10	<0.3	<0.3	<6	<2
Tetrachloroethene	<50	<5	<1	3.6	2.8	<10	<10	<0.3	<0.6	<12	<8
Toluene	<50	11.3	8.9	12	10	57	<10	<0.2	18	<4	7.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<6	<16
trans-1,3-Dichloropropene	<50	<5		<1	<1	<10	<10	<0.2	<0.2	<4	<10
Trichloroethene	<50	31.5	22	30	25	20	25.6	<0.2	35	<6	<6
Trichlorofluoromethane			<1	<1	<1	<10	<10	<0.5	<0.6	<12	<8
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<10	<8
Xylene, m & p-			65	61	16	300	92.1	20	68	37	49
Xylene, o-			180	200	210	350	172.8	80	170	96	110
Xylenes, Total		252	245	261	226	650	264.9	100	238	133	159

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W10B

Parameter	07/08/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/17/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	1.8	<1		1.0	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W10B

Parameter	07/08/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/17/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	694	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene	<10	<10	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W11

Parameter	06/18/92	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	<1		<1	<0.7	<0.6	7.1	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	0.9	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	2.1	1.8	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W11

Parameter	06/18/92	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	17	15	34.7	36.0	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	1.8	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	2.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	1	<0.3
Naphthalene	<10	<10	<1	<1	<1	<1	<1	<0.8	<1.1	3.8	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	2.4	1.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	0.8	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	1.4	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<1	<1	<1	1.3	<1	<0.2	<0.3	1.6	0.62
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	4.7	<0.1
Xylenes, Total		<5	<3	<3	<3	<3	<3	<0.6	<0.8	5	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W12

Parameter	06/18/92	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/08/99	07/17/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	<1		2.1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W12

Parameter	06/18/92	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/08/99	07/17/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	5.2	1	0.7	1.6
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene	<10	<10	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5	0	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	22.4	7.6	8.1	4.2	5.3	<1	<0.2	1.65	1.2	1.12
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W13

Parameter	06/22/92	12/19/92	06/30/93	12/27/93	06/22/94	07/06/95	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			3.2	<1	1.4		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			1.8	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W13

Parameter	06/22/92	12/19/92	06/30/93	12/27/93	06/22/94	07/06/95	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			2.6	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			1.7	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene	<10	<10	1.4	6.6	4.4	1.2	<1	1.2	<1.1	1.85	1.2
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	1.5	<1		<1	<0.3	0.45	<0.2	1.4
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	1.5	<1	<1	<1	<0.3	1.05	<0.6	0.51
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	10.6	2.3	4.9	3.4	4.6	1.98	3.3	2.95	1.8	1.5
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W14

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<10	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<10	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<10	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<10	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<100					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	13.3									
Benzene	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	30	<1	<0.2	0.3	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<10	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<10	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W14

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
Chlorobenzene	<50	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<20	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<10	<1	22	22	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<20	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	33	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<30	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene			<1	<1	<1	110	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	2	1.8	1.4	<10	<1	<0.3	0.9	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<1	<1	<1	41	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<10	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<10	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	120	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	200	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	320	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W16

Parameter	06/16/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/24/98	06/07/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene	0	0	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	18.3									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1	0	<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1	0	<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	2.957	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W16

Parameter	06/16/92	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/24/98	06/07/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	2.1	49	5.4	0.4	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene			<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	<1	<1	<0.3	1.4	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	1.3	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W18

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	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
1,1,1,2-Tetrachloroethane					<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<5	<50	<50	<5	<1	<1	<1	<1	1.3	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene					<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane					<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene					600	330	600	480		204.1	380	50	<0.6	<0.2
1,2-Dibromo-3-chloropropane					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene					3.4	28	11	10		5.4	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<10	<100	<100	<10										
2-Chloroethyl vinyl ether									<10					
2-Chlorotoluene					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<10	<100	<100	<10										
4-Chlorotoluene					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<100	<100	<10										
Acetone	<10	<100	1950	25										
Benzene	<5	<50	<50	<5	2.1	1.7	3.2	2.3	<1	<1	<0.2	1.1	<0.3	<0.1
Bromobenzene					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane					<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<5	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<10	<100	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<5	<50	<50	<5										
Carbon tetrachloride	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3
Chlorobenzene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W18

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	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
Chloroethane	<10	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<10	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<5	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane					<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane					<2	<5	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether						<1							<0.3	<0.1
Ethylbenzene	28	<50	<50	29.8	21	18	34	20	8.3	8.3	<0.2	1.6	<0.2	<0.1
Hexachlorobutadiene					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene					36	19	33	28		15.1	16	6.6	<0.2	<0.1
Methyl tert-butyl ether						<1							<0.2	<1.1
Methylene chloride	<5	742	644	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene					100	40	45	41		27.1	22	6.5	<0.3	<0.4
n-Propylbenzene					33	30	54	40		20.2	26	7.2	<0.2	<0.3
Naphthalene	74	44	46.3	59.3	100	70	90	18	75	68.1	54	70	<1.1	<0.7
p-Isopropyltoluene					<1	5.7	<1	1.8		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene					28	14	21	21		16.1	14	10	0.7	<0.3
Styrene	<5	<50	<50	<5	<1	<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene					<1	<1	<1	180		<1	<0.3	3.8	<0.3	<0.1
Tetrachloroethene	<5	<50	<50	<5	<1	<1	2.5	2.2	<1	1.3	<0.3	2	<0.6	<0.4
Toluene	7	<50	<50	6.47	<1	4.1	3.3	1.3	1.2	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<5	<50	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	6.36	<50	<50	<5	6.3	4.3	7.4	4.4	2.8	2.9	<0.2	2.3	<0.3	<0.3
Trichlorofluoromethane					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<10	<100	<100	<10										
Vinyl chloride	<10	<100	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-					19	34	39	32	12	10.7	<0.4	3.2	<0.3	<0.2
Xylene, o-					160	120	170	16	29	34.5	54	4.8	<0.5	<0.1
Xylenes, Total	230	123	122	195	179	154	209	48	41	45.2	54	8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W21

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	22.3									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1	0	<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1	0	<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W21

Parameter	06/24/92	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	5.6	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene			<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5	0	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W22

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	07/10/96	07/11/97	06/24/98
1,1,1,2-Tetrachloroethane					<10		<1	<1		<5	<0.1	<0.3
1,1,1-Trichloroethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2
1,1,2-Trichloroethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<1	<0.2
1,1-Dichloroethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2
1,1-Dichloroethene	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.4	<0.2
1,1-Dichloropropene					<10		<1	<1		<5	<0.2	<0.3
1,2,3-Trichlorobenzene					<10	<1	<1	<1		<5	<0.5	<0.4
1,2,3-Trichloropropane					<10		<1	<1		<5	<0.3	<0.2
1,2,4-Trichlorobenzene					<10	<1	<1	<1		<5	<0.5	<0.3
1,2,4-Trimethylbenzene					1500	3.8	1500	1000		121	360	820
1,2-Dibromo-3-chloropropane					<30	<3	<3	<3		<15	<0.3	<0.3
1,2-Dibromoethane					<20	<2	<2	<2		<10	<0.2	<0.4
1,2-Dichlorobenzene					<10	<1	<1	<1	<20	<5	<0.3	<0.3
1,2-Dichloroethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2
1,2-Dichloropropane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.1	<0.2
1,3,5-Trimethylbenzene					310	2.9	360	220		23	24	110
1,3-Dichlorobenzene					<10	<1	<1	<1	<20	<5	<0.7	<0.4
1,3-Dichloropropane					<10	<1	<1	<1		<5	<0.3	<0.6
1,4-Dichlorobenzene					<10	<1	<1	<1	<20	<5	<0.3	<0.3
2,2-Dichloropropane					<10	<1	<1	<1		<5	<0.2	<0.5
2-Butanone (MEK)	<10	<10	<100	<100								
2-Chloroethyl vinyl ether									<200			
2-Chlorotoluene					<10	<1	<1	<1		<5	<0.4	<0.3
2-Hexanone	<10	<10	<100	<100								
4-Chlorotoluene					<10	<1	<1	<1		<5	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<10	<100	<100								
Acetone	<10	11.1	2120	<100								
Benzene	31.8	26.1	<50	<50	42	<1	34	21	<20	7	10	32
Bromobenzene					<10	<1	<1	<1		<5	<0.3	<0.2
Bromochloromethane					<10		<1	<1		<5	<0.4	<0.2
Bromodichloromethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2
Bromoform	<5	<5	<50	<50	<10		<1	<1	<20	<5	<0.3	<0.2
Bromomethane	<10	<10	<100	<100	<20		<2	<2	<40	<10	<0.3	<0.9
Carbon disulfide	<5	<5	<50	<50								
Carbon tetrachloride	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.4

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W22

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	07/10/96	07/11/97	06/24/98
Chlorobenzene	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.3	<0.3
Chlorodibromomethane	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.3	<0.3
Chloroethane	<10	<10	<100	<100	<20	<2	<2	<2	<40	<10	<0.4	<0.8
Chloroform	7.14	6.55	<50	<50	<10	<1	2.6	<1	<20	<5	<0.2	<0.2
Chloromethane	<10	<10	<100	<100	<20	<2	<2	<2	<40	<10	<0.7	<0.9
cis-1,2-Dichloroethene					<10	<1	1.4	<1	<20	<5	<0.2	<0.2
cis-1,3-Dichloropropene	<5	<5	<50	<50	<10		<1	<1	<20	<5	<0.3	<0.3
Dibromomethane					<10		<1	<1		<5	<0.1	<0.2
Dichlorodifluoromethane					<20	<2	<2	<2		<10	<0.3	<1.2
Diisopropyl Ether						<1						
Ethylbenzene	111	91.6	<50	86.7	110	<1	77	60	28	10	16	50
Hexachlorobutadiene					<10	<1	<1	<1		<5	<0.5	<0.6
Isopropylbenzene					100	3.3	63	50		15	14	62
Methyl tert-butyl ether						<1						
Methylene chloride	<5	<5	946	142	<30	<3	<3	<3	<60	<15	<0.3	<0.5
n-Butylbenzene					210	2.1	73	100		48	32	150
n-Propylbenzene					120	1.6	120	120		25	28	92
Naphthalene	207	122	<10	108	260	<1	140	110	130	70	70	110
p-Isopropyltoluene					<10	<1	28	58		13	<0.4	45
sec-Butylbenzene					43	<1	29	58		19	12	55
Styrene	<5	<5	<50	<50	<10		<1	<25		<5	<0.2	<0.2
tert-Butylbenzene					<10	<1	<1	350		<5	<0.3	<0.3
Tetrachloroethene	<5	<5	<50	<50	<10	<1	3.9	4	<20	<5	<0.3	<0.6
Toluene	111	100	<50	114	140	<1	90	55	<20	6	<0.2	25
trans-1,2-Dichloroethene	<5	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.3
trans-1,3-Dichloropropene	<5	<5	<50	<50	<10		<1	<1	<20	<5	<0.2	<0.2
Trichloroethene	71.8	72	<50	92	85	<1	71	28	<20	15	24	32
Trichlorofluoromethane					<10	<1	<1	<1	<20	<5	<0.5	<0.6
Vinyl acetate	<10	<10	<100	<100								
Vinyl chloride	<10	<10	<100	<100	<10	<1	<1	<1	<20	<5	<0.3	<0.5
Xylene, m & p-					700	<2	440	350	110	22	20	80
Xylene, o-					640	2.3	590	400	260	61	190	250
XYlenes, Total	713	472	<50	871	1340	2.3	1030	750	370	83	210	330

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W25

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	07/11/97	06/23/98	06/09/99	07/18/00
1,1,1,2-Tetrachloroethane					<1		<1	<1		<0.1	<0.3	<1.5	<0.4
1,1,1-Trichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3
1,1,2,2-Tetrachloroethane	<5	<50	<50	<5	<1	<1	<1	<1	55	<0.2	<0.2	<1	<0.4
1,1,2-Trichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.2
1,1-Dichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.4
1,1-Dichloroethene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<1	<0.9
1,1-Dichloropropene					<1		<1	<1		<0.2	<0.3	<1.5	<0.4
1,2,3-Trichlorobenzene					<1	<1	<1	<1		<0.5	<0.4	<2	<0.5
1,2,3-Trichloropropane					<1		<1	<1		<0.3	<0.2	<1	<0.3
1,2,4-Trichlorobenzene					<1	<1	<1	<1		<0.5	<0.3	<1.5	<0.5
1,2,4-Trimethylbenzene					8.8	5.2	5.2	47		7	58	28	37
1,2-Dibromo-3-chloropropane					<3	<3	<3	<3		<0.3	<0.3	<1.5	<0.3
1,2-Dibromoethane					<2	<2	<2	<2		<0.2	<0.4	<2	<0.3
1,2-Dichlorobenzene					<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3
1,2-Dichloroethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.4
1,2-Dichloropropane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<1	<0.3
1,3,5-Trimethylbenzene					2.6	3.7	<1	12		2.8	20	12	15
1,3-Dichlorobenzene					<1	<1	<1	<1	<1	<0.7	<0.4	<2	<0.4
1,3-Dichloropropane					<1	<1	<1	<1		<0.3	<0.6	<3	<0.4
1,4-Dichlorobenzene					<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.4
2,2-Dichloropropane					<1	<1	<1	<1		<0.2	<0.5	<2.5	<0.2
2-Butanone (MEK)	<10	<100	<100	<10									
2-Chloroethyl vinyl ether									<10				
2-Chlorotoluene					<1	<1	<1	<1		<0.4	<0.3	<1.5	<0.4
2-Hexanone	<10	<100	<100	<10									
4-Chlorotoluene					<1	<1	<1	<1		<0.3	<0.3	<1.5	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<100	<100	<10									
Acetone	<10	<100	108	13.1									
Benzene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	2	<1.5	<0.1
Bromobenzene					<1	<1	<1	<1		<0.3	<0.2	<1	<0.5
Bromochloromethane					<1		<1	<1		<0.4	<0.2	<1	<0.4
Bromodichloromethane	<5	<50	<50	<5	5.4	<1	<1	<1	<1	<0.2	<0.2	<1	<0.2
Bromoform	<5	<50	<50	<5	<1		<1	<1	<1	<0.3	<0.2	<1	<0.1
Bromomethane	<10	<100	<100	<10	<2		<2	<2	<2	<0.3	<0.9	<4.5	<0.4
Carbon disulfide	<5	<50	<50	<5									
Carbon tetrachloride	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<2	<0.3
Chlorobenzene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3
Chlorodibromomethane	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.4

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W25

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	07/11/97	06/23/98	06/09/99	07/18/00
Chloroethane	<10	<100	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<4	<0.5
Chloroform	<5	<50	<50	<5	2.3	<1	<1	<1	<1	<0.2	<0.2	<1	<0.5
Chloromethane	<10	<100	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<4.5	<0.3
cis-1,2-Dichloroethene					44	<1	17	3	<1	8	18	14	7.7
cis-1,3-Dichloropropene	<5	<50	<50	<5	<1		<1	<1	<1	<0.3	<0.3	<1.5	<0.2
Dibromomethane					<1		<1	<1		<0.1	<0.2	<1	<0.4
Dichlorodifluoromethane					<2	<2	<2	<2		<0.3	<1.2	<6	<0.5
Diisopropyl Ether						<1						<1.5	<0.1
Ethylbenzene	<5	<50	<50	<5	<1	<1	<1	3.4	2	<0.2	2.8	<1	<0.5
Hexachlorobutadiene					<1	<1	<1	<1		<0.5	<0.6	<3	<0.6
Isopropylbenzene					4.2	6.3	<1	16		<0.2	5.6	8.5	3.2
Methyl tert-butyl ether						<1						<1	<1.1
Methylene chloride	<5	<50	128	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<2.5	<1.9
n-Butylbenzene					6.8	3.8	2	6		<0.6	6.2	7.5	6.9
n-Propylbenzene					<1	2.1	<1	11		<0.3	8.2	4.5	5.9
Naphthalene	28	<10	<10	<10	3.2	<1	<1	19	30.5	<0.8	11	11	6.1
p-Isopropyltoluene					<1	<1	<1	<1		<0.4	2.6	<1	2
sec-Butylbenzene					1.9	2.6	<1	9.3		<0.3	6.8	5.5	4.5
Styrene	<5	<50	<50	<5	<1		<1	<1		<0.2	<0.2	<1	<0.2
tert-Butylbenzene					<1	<1	<1	<1		<0.3	26	<1.5	<0.1
Tetrachloroethene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	3	<3	<0.4
Toluene	<5	<50	<50	<5	<1	<1	<1	1.1	1.25	<0.2	1.8	<1	<0.1
trans-1,2-Dichloroethene	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<1.5	<0.8
trans-1,3-Dichloropropene	<5	<50	<50	<5	<1		<1	<1	<1	<0.2	<0.2	<1	<0.5
Trichloroethene	221	<50	<50	41.3	380	11	130	95	49.5	48	130	95	49
Trichlorofluoromethane					<1	<1	<1	<1	<1	<0.5	<0.6	<3	<0.4
Vinyl acetate	<10	<100	<100	<10									
Vinyl chloride	<10	<100	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<2.5	<0.4
Xylene, m & p-					<2	<2	<2	16	8.1	<0.4	6	<1.5	2.1
Xylene, o-					3.1	2.4	1.6	100	29.5	1.6	28	13	15
Xylenes, Total	62	<50	<50	<5	3.1	2.4	1.6	116	37.6	1.6	34	13	17.1

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W26

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	07/09/96	07/11/97	06/24/98	06/09/99	07/18/00
1,1,1,2-Tetrachloroethane					<1		<5	<1		<1	<0.1	<0.3	<1.5	<20
1,1,1-Trichloroethane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<15
1,1,2,2-Tetrachloroethane	<5	<5	<50	<50	<1	<1	<5	<1	1.25	<1	<0.2	<0.2	<1	<20
1,1,2-Trichloroethane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<1	<0.2	<1	<10
1,1-Dichloroethane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1	<20
1,1-Dichloroethene	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.4	<0.2	<1	<45
1,1-Dichloropropene					<1		<5	<1		<1	<0.2	<0.3	<1.5	<20
1,2,3-Trichlorobenzene					<1	<1	<5	<1		<1	<0.5	<0.4	<2	<25
1,2,3-Trichloropropane					<1		<5	<1		<1	<0.3	<0.2	<1	<15
1,2,4-Trichlorobenzene					<1	<1	<5	<1		<1	<0.5	<0.3	<1.5	<25
1,2,4-Trimethylbenzene					960	550	600	500		94.7	1300	900	230	570
1,2-Dibromo-3-chloropropane					<3	<3	<15	<3		<3	<0.3	<0.3	<1.5	<15
1,2-Dibromoethane					<2	<2	<10	<2		<2	<0.2	<0.4	<2	<15
1,2-Dichlorobenzene					<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<15
1,2-Dichloroethane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1	<20
1,2-Dichloropropane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.1	<0.2	<1	<15
1,3,5-Trimethylbenzene					340	160	80	88		16.0	380	300	70	210
1,3-Dichlorobenzene					<1	<1	<5	<1	<1	<1	<0.7	<0.4	<2	<20
1,3-Dichloropropane					<1	<1	<5	<1		<1	<0.3	<0.6	<3	<20
1,4-Dichlorobenzene					<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<20
2,2-Dichloropropane					<1	<1	<5	<1		<1	<0.2	<0.5	<2.5	<10
2-Butanone (MEK)	<10	<10	<100	<100										
2-Chloroethyl vinyl ether									<10					
2-Chlorotoluene					<1	<1	<5	<1		<1	<0.4	<0.3	<1.5	<20
2-Hexanone	<10	<10	<100	<100										
4-Chlorotoluene					<1	<1	<5	<1		<1	<0.3	<0.3	<1.5	<15
4-Methyl-2-Pentanone (MIBK)	<10	<10	<100	<100										
Acetone	<10	10.5	<100	<100										
Benzene	20	27.5	<50	<50	24	18	25	13	37	3.8	<0.2	55	4	11
Bromobenzene					<1	<1	<5	<1	0	<1	<0.3	<0.2	<1	<25
Bromochloromethane					<1		<5	<1	0	<1	<0.4	<0.2	<1	<20
Bromodichloromethane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1	<10
Bromoform	<5	<5	<50	<50	<1		<5	<1	<1	<1	<0.3	<0.2	<1	<5
Bromomethane	<10	<10	<100	<100	<2		<10	<2	<2	<2	<0.3	<0.9	<4.5	<20
Carbon disulfide	<5	<5	<50	<50										
Carbon tetrachloride	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.4	<2	<15
Chlorobenzene	<5	<5	<50	<50	<1	<1	<5	<1	1.3	<1	<0.3	<0.3	<1.5	<15
Chlorodibromomethane	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<20

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W26

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	07/09/96	07/11/97	06/24/98	06/09/99	07/18/00
Chloroethane	<10	<10	<100	<100	<2	<2	<10	<2	<2	<2	<0.4	<0.8	<4	<25
Chloroform	18.1	12.7	<50	<50	7.2	4.4	<5	2.6	<1	<1	<0.2	<0.2	<1	<25
Chloromethane	<10	<10	<100	<100	<2	<2	<10	<2	3.95	<2	<0.7	<0.9	<4.5	<15
cis-1,2-Dichloroethene					<1	<1	<5	<1	2.3	<1	<0.2	<0.2	<1	<20
cis-1,3-Dichloropropene	<5	<5	<50	<50	<1		<5	<1	<1	<1	<0.3	<0.3	<1.5	<10
Dibromomethane					<1		<5	<1		<1	<0.1	<0.2	<1	<20
Dichlorodifluoromethane					<2	<2	<10	<2		<2	<0.3	<1.2	<6	<25
Diisopropyl Ether					0	<1							<1.5	<5
Ethylbenzene	30.7	79.3	54.5	<50	49	31	42	27	67.5	8.5	35	60	7.5	26
Hexachlorobutadiene					<1	<1	<5	<1		<1	<0.5	<0.6	<3	<30
Isopropylbenzene					58	26	32	22		7.3	40	60	16	34
Methyl tert-butyl ether						<1							<1	<55
Methylene chloride	<5	<5	82.7	103	<3	<3	<15	<3	<3	<3	<0.3	<0.5	<2.5	<95
n-Butylbenzene					190	65	21	26		11.1	100	120	29	76
n-Propylbenzene					58	46	55	39		12.5	90	95	18	63
Naphthalene	150	38.5	84.9	<100	150	70	75	80	114.5	19.5	120	140	46	80
p-Isopropyltoluene					<1	21	12	<1		3.8	<0.4	55	3.5	<10
sec-Butylbenzene					27	12	15	13		4.5	30	60	10	<15
Styrene	<5	<5	<50	<50	<1		<5	<25		<1	<0.2	<0.2	<1	<10
tert-Butylbenzene					<1	<1	<5	<25		<1	<0.3	<0.3	<1.5	<5
Tetrachloroethene	<5	<5	<50	<50	<1	<1	<5	1.5	1.45	<1	<0.3	<0.6	<3	<20
Toluene	46.9	102	107	77.5	85	45	65	42	98.5	7.8	45	60	3.5	42
trans-1,2-Dichloroethene	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.3	<1.5	<40
trans-1,3-Dichloropropene	<5	<5	<50	<50	<1		<5	<1	<1	<1	<0.2	<0.2	<1	<25
Trichloroethene	48.5	72.7	56.8	63.3	60	35	38	20	40	11.1	15	<0.3	9	<15
Trichlorofluoromethane					<1	<1	<5	<1	<1	<1	<0.5	<0.6	<3	<20
Vinyl acetate	<10	<10	<100	<100										
Vinyl chloride	<10	<10	<100	<100	<1	<1	<5	<1	<1	<1	<0.3	<0.5	<2.5	<20
Xylene, m & p-					280	190	220	170	284.5	34.2	200	150	13	110
Xylene, o-					460	260	300	220	321.5	43.0	480	310	85	300
Xylenes, Total	298	569	993	523	740	450	520	390	606	77.2	680	460	98	410

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W27

Parameter	06/24/92	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<10	<0.1	<0.3	<1.5	<4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<10	<10	<1	<0.2	<1	<2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<1	<9
1,1-Dichloropropene				<1	<1		<10	<0.2	<0.3	<1.5	<4
1,2,3-Trichlorobenzene			<1	<1	<1		<10	<0.5	<0.4	<2	<5
1,2,3-Trichloropropane				<1	<1		<10	<0.3	<0.2	<1	<3
1,2,4-Trichlorobenzene			<1	<1	<1		<10	<0.5	<0.3	<1.5	<5
1,2,4-Trimethylbenzene			190	1100	540		387.9	750	800	240	365
1,2-Dibromo-3-chloropropane			<3	<3	<3		<30	<0.3	<0.3	<1.5	<3
1,2-Dibromoethane			<2	<2	<2		<20	<0.2	<0.4	<2	<3
1,2-Dichlorobenzene			<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<1	<3
1,3,5-Trimethylbenzene			95	230	130		86.5	240	240	100	120
1,3-Dichlorobenzene			<1	<1	<1	<10	<10	<0.7	<0.4	<2	<4
1,3-Dichloropropane			<1	<1	<1		<10	<0.3	<0.6	<3	<4
1,4-Dichlorobenzene			<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<4
2,2-Dichloropropane			<1	<1	<1		<10	<0.2	<0.5	<2.5	<2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<100					
2-Chlorotoluene			<1	<1	<1		<10	<0.4	<0.3	<1.5	<4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<10	<0.3	<0.3	<1.5	<3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	20.1									
Benzene	<50	12.9	2.4	11	7.5	39	<10	<0.2	12	<1.5	<1
Bromobenzene			<1	<1	<1		<10	<0.3	<0.2	<1	<5
Bromochloromethane				<1	<1		<10	<0.4	<0.2	<1	<4
Bromodichloromethane	<50	<5	<1	<1	<1	31	<10	<0.2	<0.2	<1	<2
Bromoform	<50	<5		<1	<1	<10	<10	<0.3	<0.2	<1	<1
Bromomethane	<100	<10		<2	<2	<20	<20	<0.3	<0.9	<4.5	<4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.4	<2	<3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W27

Parameter	06/24/92	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3
Chlorodibromomethane	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<4
Chloroethane	<100	<10	<2	<2	<2	<20	<20	<0.4	<0.8	<4	<5
Chloroform	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<5
Chloromethane	<100	35.1	<10	<2	<2	48	<20	<0.7	<0.9	<4.5	<3
cis-1,2-Dichloroethene			<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<10	<10	<0.3	<0.3	<1.5	<2
Dibromomethane				<1	<1		<10	<0.1	<0.2	<1	<4
Dichlorodifluoromethane			<25	<2	<2		<20	<0.3	<1.2	<6	<5
Diisopropyl Ether			<1							<1.5	<1
Ethylbenzene	<50	35.4	4.8	40	32	71	<10	18	28	1.5	4.1
Hexachlorobutadiene			<1	<1	<1		<10	<0.5	<0.6	<3	<6
Isopropylbenzene			6.4	36	31		15.7	23	34	14	10.25
Methyl tert-butyl ether			<1							<1	<11
Methylene chloride	<50	11	<3	<3	<3	<30	<30	<0.3	<0.5	<2.5	<19
n-Butylbenzene			34	86	77		64.5	120	120	60	84.5
n-Propylbenzene			8.8	63	46		23.7	36	46	7.5	14.5
Naphthalene	67.3	89.8	42	120	10	150	51.0	95	90	36	55
p-Isopropyltoluene			<1	17	<1		20.3	30	39	18	24
sec-Butylbenzene			5.2	17	18		16.8	28	32	23	11.5
Styrene	<50	<5		<1	<1		<10	<0.2	<0.2	<1	<2
tert-Butylbenzene			<1	<1	<1		<10	<0.3	<0.3	<1.5	<1
Tetrachloroethene	<50	<5	<1	3.2	2.8	<10	<10	<0.3	<0.6	<3	<4
Toluene	<50	63.9	8.9	71	36	100	<10	6	18	1	6.4
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<1.5	<8
trans-1,3-Dichloropropene	<50	<5	0	<1	<1	<10	<10	<0.2	<0.2	<1	<5
Trichloroethene	<50	20.8	4.4	17	12	61	<10	4	15	<1.5	<3
Trichlorofluoromethane			<1	<1	<1	<10	<10	<0.5	<0.6	<3	<4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<2.5	<4
Xylene, m & p-			36	300	240	480	42.6	46	70	22	19.5
Xylene, o-			200	380	300	510	93.5	260	300	90	125
Xylenes, Total	304	620	236	680	540	990	136.1	306	370	112	144.5

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W28

Parameter	07/08/92	12/17/92	06/29/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	7	15		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W28

Parameter	07/08/92	12/17/92	06/29/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	1.4	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	786	<10	<3	<3	<3	<3	<3	0.4	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	1.6		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene	<10	<10	<1	2.5	4.2	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	1.3	<1	0.3	1.2	0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	11.4	7	5.5	4.5	6.5	4.9	4.2	3.9	3	1.9
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W29

Parameter	06/25/92	12/18/92	06/30/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/23/98	06/08/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	10	4.8		126.8	29	140	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	3.8	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	6.2	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	13.6									
Benzene	<50	<5	<1	1.5	<1	2.3	2.9	1.3	3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	1.5	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W29

Parameter	06/25/92	12/18/92	06/30/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/23/98	06/08/99	07/18/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	<0.2	31	22	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	1.4	0.7	1.3	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	1.2	3.9	0.3	6.3	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	1.7	<1		8.7	3.9	8.9	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	5	<0.5	<1.9
n-Butylbenzene			<1	1.4	<1		8.4	<0.6	12	<0.3	<0.4
n-Propylbenzene			<1	1.7	<1		11.2	3.6	14	<0.2	<0.3
Naphthalene	<10	<10	<1	1.6	<1	2.3	16.2	2.6	24	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		5.9	2.7	7.4	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	<1	<1	<0.3	1.8	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	1.8	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	13.5	3.4	10	3.1	20	34.4	16	17	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	6.5	1.1	10	<0.3	<0.2
Xylene, o-			<1	3.7	<1	6.5	40.2	8.8	60	<0.5	<0.1
Xylenes, Total	<50	<5	<3	3.7	<3	6.5	46.7	9.9	70	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W32

Parameter	06/24/92	12/19/92	06/29/93	12/28/93	06/22/94	07/05/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
1,1,1,2-Tetrachloroethane				<1	<1		<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,1,1,2,2-Tetrachloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<1		<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<1		<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene			<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene			<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2
1,2-Dibromo-3-chloropropane			<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane			<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3
1,3-Dichlorobenzene			<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane			<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane			<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<100	<10									
2-Chloroethyl vinyl ether						<10					
2-Chlorotoluene			<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<100	<10									
4-Chlorotoluene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<100	<10									
Acetone	<100	<10									
Benzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<1		<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<50	<5									
Carbon tetrachloride	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W32

Parameter	06/24/92	12/19/92	06/29/93	12/28/93	06/22/94	07/05/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00
Chlorobenzene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3
Chlorodibromomethane	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Chloromethane	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<1		<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane			<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether			<1							<0.3	<0.1
Ethylbenzene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene			<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene			<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1
Methyl tert-butyl ether			<1							<0.2	<1.1
Methylene chloride	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene			<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4
n-Propylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Naphthalene			<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7
p-Isopropyltoluene			<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2
sec-Butylbenzene			<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3
Styrene	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene			<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1
Tetrachloroethene	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4
Toluene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3
Trichlorofluoromethane			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<100	<10									
Vinyl chloride	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2
Xylene, o-			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1
Xylenes, Total	<50	<5	<3	<3	<3	<3	<3	<0.6	<0.8	<0.8	<0.3

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W36

Parameter	02/20/92	08/03/92	09/17/92	07/10/96	07/11/97	06/25/98	06/09/99	07/18/00
1,1,1,2-Tetrachloroethane				<1	<0.1	<0.3	<0.3	<0.4
1,1,1-Trichloroethane	<5	<50	<50	<1	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	<5	<50	<50	<1	<0.2	<0.2	<0.2	<0.4
1,1,2-Trichloroethane	<5	<50	<50	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethane	<5	<50	<50	<1	<0.2	<0.2	<0.2	<0.4
1,1-Dichloroethene	<5	<50	<50	<1	<0.4	<0.2	<0.2	<0.9
1,1-Dichloropropene				<1	<0.2	<0.3	<0.3	<0.4
1,2,3-Trichlorobenzene				<1	<0.5	<0.4	<0.4	<0.5
1,2,3-Trichloropropane				<1	<0.3	<0.2	<0.2	<0.3
1,2,4-Trichlorobenzene				<1	<0.5	<0.3	<0.3	<0.5
1,2,4-Trimethylbenzene				637.5	130	180	7.45	15
1,2-Dibromo-3-chloropropane				<3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane				<2	<0.2	<0.4	<0.4	<0.3
1,2-Dichlorobenzene				<1	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane	<5	<50	<50	<1	<0.2	<0.2	<0.2	<0.4
1,2-Dichloropropane	<5	<50	<50	<1	<0.1	<0.2	<0.2	<0.3
1,3,5-Trimethylbenzene				122.2	44	77	3.9	6.15
1,3-Dichlorobenzene				<1	<0.7	<0.4	<0.4	<0.4
1,3-Dichloropropane				<1	<0.3	<0.6	<0.6	<0.4
1,4-Dichlorobenzene				<1	<0.3	<0.3	<0.3	<0.4
2,2-Dichloropropane				<1	<0.2	<0.5	<0.5	<0.2
2-Butanone (MEK)	<10	<100	<100					
2-Chlorotoluene				<1	<0.4	<0.3	<0.3	<0.4
2-Hexanone	<10	<100	<100					
4-Chlorotoluene				<1	<0.3	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<100	<100					
Acetone	<10	<100	<100					
Benzene	7	<50	<50	<1	<0.2	<0.3	<0.3	<0.1
Bromobenzene				<1	<0.3	<0.2	<0.2	<0.5
Bromochloromethane				<1	<0.4	<0.2	<0.2	<0.4
Bromodichloromethane	<5	<50	<50	<1	<0.2	<0.2	<0.2	<0.2
Bromoform	<5	<50	<50	<1	<0.3	<0.2	<0.2	<0.1
Bromomethane	<10	<100	<100	<2	<0.3	<0.9	<0.9	<0.4
Carbon disulfide	<5	<50	<50					
Carbon tetrachloride	<5	<50	<50	<1	<0.2	<0.4	<0.4	<0.3
Chlorobenzene	<5	<50	<50	<1	<0.3	<0.3	<0.3	<0.3

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W36

Parameter	02/20/92	08/03/92	09/17/92	07/10/96	07/11/97	06/25/98	06/09/99	07/18/00
Chlorodibromomethane	<5	<50	<50	<1	<0.3	<0.3	<0.3	<0.4
Chloroethane	<10	<100	<100	<2	<0.4	<0.8	<0.8	<0.5
Chloroform	<5	<50	<50	12.5	24	14	7.7	4.75
Chloromethane	<10	<100	<100	<2	<0.7	<0.9	<0.9	<0.3
cis-1,2-Dichloroethene				<1	<0.2	<0.2	<0.2	<0.4
cis-1,3-Dichloropropene	<5	<50	<50	<1	<0.3	<0.3	<0.3	<0.2
Dibromomethane				<1	<0.1	<0.2	<0.2	<0.4
Dichlorodifluoromethane				<2	<0.3	<1.2	<1.2	<0.5
Diisopropyl Ether							<0.3	<0.1
Ethylbenzene	17	<50	<50	<1	<0.2	<0.2	<0.2	<0.1
Hexachlorobutadiene				<1	<0.5	<0.6	<0.6	<0.6
Isopropylbenzene				36.0	6.5	23	3.4	1.55
Methyl tert-butyl ether							<0.2	<1.1
Methylene chloride	<5	<50	113	<3	<0.3	<0.5	<0.5	<1.9
n-Butylbenzene				137.3	12	56	4.7	7.1
n-Propylbenzene				123.1	12	25	2.8	3.3
Naphthalene	70	71.8	<10	122.4	7	14	1.75	1.75
p-Isopropyltoluene				22.0	<0.4	25	1.3	2.7
sec-Butylbenzene				22.7	7	25	2.25	3.3
Styrene	<5	<50	<50	<1	<0.2	<0.2	<0.2	<0.2
tert-Butylbenzene				<1	<0.3	<0.3	2.75	0.85
Tetrachloroethene	<5	<50	<50	<1	<0.3	<0.6	<0.6	<0.4
Toluene	13	<50	<50	<1	<0.2	<0.2	<0.2	<0.1
trans-1,2-Dichloroethene	<5	<50	<50	<1	<0.2	<0.3	<0.3	<0.8
trans-1,3-Dichloropropene	<5	<50	<50	<1	<0.2	<0.2	<0.2	<0.5
Trichloroethene	31	<50	<50	4.4	6	<0.3	4.4	3.75
Trichlorofluoromethane				<1	<0.5	<0.6	<0.6	<0.4
Vinyl acetate	<10	<100	<100					
Vinyl chloride	<10	<100	<100	<1	<0.3	<0.5	<0.5	<0.4
Xylene, m & p-				<200	4.5	<0.3	0.6	0.59
Xylene, o-				201.6	32	<0.5	<0.5	1.55
Xylenes, Total	<5	297	447	201.6	36.5	<0.8	0.6	2.1

NOTES: All Units are in ug/L

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W39

Parameter	06/17/92	12/18/92	06/21/94	07/09/96	07/11/97	06/24/98	06/09/99	07/19/00
1,1,1,2-Tetrachloroethane			<1	<100	<0.1	<0.3	<3	<20
1,1,1-Trichloroethane	<50	64.6	<1	<100	<0.3	<0.3	<3	<15
1,1,2,2-Tetrachloroethane	<50	<50	<1	<100	<0.2	<0.2	<2	<20
1,1,2-Trichloroethane	<50	<50	<1	<100	<1	<0.2	<2	<10
1,1-Dichloroethane	<50	<50	<1	<100	<0.2	<0.2	<2	<20
1,1-Dichloroethene	<50	<50	<1	<100	<0.4	<0.2	<2	<45
1,1-Dichloropropene			<1	<100	<0.2	<0.3	<3	<20
1,2,3-Trichlorobenzene			<1	<100	<0.5	<0.4	<4	<25
1,2,3-Trichloropropane			<1	<100	<0.3	<0.2	<2	<15
1,2,4-Trichlorobenzene			<1	<100	<0.5	<0.3	<3	<25
1,2,4-Trimethylbenzene			2400	606.2	1030	440	450	780
1,2-Dibromo-3-chloropropane			<3	<300	<0.3	<0.3	<3	<15
1,2-Dibromoethane			<2	<200	<0.2	<0.4	<4	<15
1,2-Dichlorobenzene			<1	<100	<0.3	<0.3	<3	<15
1,2-Dichloroethane	<50	<50	<1	<100	<0.2	<0.2	<2	<20
1,2-Dichloropropane	<50	<50	<1	<100	<0.1	<0.2	<2	<15
1,3,5-Trimethylbenzene			600	328.24	520	200	330	470
1,3-Dichlorobenzene							<4	
1,3-Dichlorobenzene			<1	<100	<0.7	<0.4		<20
1,3-Dichloropropane			<1	<100	<0.3	<0.6	<6	<20
1,4-Dichlorobenzene			<1	<100	<0.3	<0.3	<3	<20
2,2-Dichloropropane			<1	<100	<0.2	<0.5	<5	<10
2-Butanone (MEK)	<100	<100						
2-Chlorotoluene			<1	<100	<0.4	<0.3	<3	<20
2-Hexanone	<100	<100						
4-Chlorotoluene			<1	<100	<0.3	<0.3	<3	<15
4-Methyl-2-Pentanone (MIBK)	<100	<100						
Acetone	190	271						
Benzene	<50	<50	5.3	<100	<0.2	<0.3	<3	<5
Bromobenzene			<1	<100	<0.3	<0.2	<2	<25
Bromochloromethane			<1	<100	<0.4	<0.2	<2	<20
Bromodichloromethane	<50	<50	<1	<100	<0.2	<0.2	<2	<10
Bromoform	<50	<50	<1	<100	<0.3	<0.2	<2	<5
Bromomethane	<100	<100	<2	<200	<0.3	<0.9	<9	<20
Carbon disulfide	<50	<50						
Carbon tetrachloride	<50	<50	<1	<100	<0.2	<0.4	<4	<15

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W39

Parameter	06/17/92	12/18/92	06/21/94	07/09/96	07/11/97	06/24/98	06/09/99	07/19/00
Chlorobenzene	<50	<50	<1	<100	<0.3	<0.3	<3	<15
Chlorodibromomethane	<50	<50	<1	<100	<0.3	<0.3	<3	<20
Chloroethane	<100	<100	<2	<200	<0.4	<0.8	<8	<25
Chloroform	<50	<50	3.5	<100	<0.2	<0.2	<2	<25
Chloromethane	<100	<100	<2	<200	<0.7	<0.9	<9	<15
cis-1,2-Dichloroethene			<1	<100	<0.2	<0.2	<2	<20
cis-1,3-Dichloropropene	<50	<50	<1	<100	<0.3	<0.3	<3	<10
Dibromomethane			<1	<100	<0.1	<0.2	<2	<20
Dichlorodifluoromethane			<2	<200	<0.3	<1.2	<12	<25
Diisopropyl Ether							<3	<5
Ethylbenzene	69.5	59.8	75	<100	<0.2	<0.2	<2	<5
Hexachlorobutadiene			<1	<100	<0.5	<0.6	<6	<30
Isopropylbenzene			180	180.87	310	44	27	25
Methyl tert-butyl ether							<2	<55
Methylene chloride	<50	142	<3	<300	<0.3	<0.5	<5	<95
n-Butylbenzene			320	631.4	360	130	240	250
n-Propylbenzene			280	<100	710	54	34	41
Naphthalene	632	732	160	121.68	<0.8	48	40	84
p-Isopropyltoluene			<25	<100	480	56	78	78
sec-Butylbenzene			160	238.3	260	66	66	79
Styrene	<50	<50	<25	309.4	<0.2	<0.2	<2	<10
tert-Butylbenzene			<25	<100	<0.3	<0.3	<3	<5
Tetrachloroethene	<50	<50	3	<100	<0.3	<0.6	<6	<20
Toluene	189	154	<1	<100	<0.2	<0.2	<2	18
trans-1,2-Dichloroethene	<50	<50	<1	<100	<0.2	<0.3	<3	<40
trans-1,3-Dichloropropene	<50	<50	<1	<100	<0.2	<0.2	<2	<25
Trichloroethene	<50	<50	19	<100	<0.2	<0.3	<3	<15
Trichlorofluoromethane			<1	<100	<0.5	<0.6	<6	<20
Vinyl acetate	<100	<100						
Vinyl chloride	<100	<100	<1	<100	<0.3	<0.5	<5	<20
Xylene, m & p-			450	<200	90	46	23	87
Xylene, o-			600	<100	<0.2	<0.5	87	230
Xylenes, Total	1000	784	1050	<300	90	46	110	317

NOTES: All Units are in ug/L.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - 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	07/09/96	07/11/97	06/24/98	06/08/99	07/19/00
1,1,1,2-Tetrachloroethane					<1		<1	<1		<10	<0.1	<0.3	<3	<4
1,1,1-Trichloroethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<3
1,1,2,2-Tetrachloroethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4
1,1,2-Trichloroethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<1	<0.2	<2	<2
1,1-Dichloroethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4
1,1-Dichloroethene	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.4	<0.2	<2	<9
1,1-Dichloropropene					<1		<1	<1		<10	<0.2	<0.3	<3	<4
1,2,3-Trichlorobenzene					<1	<100	<1	<1		<10	<0.5	<0.4	<4	<5
1,2,3-Trichloropropane					<1		<1	<1		<10	<0.3	<0.2	<2	<3
1,2,4-Trichlorobenzene					<1	<100	<1	<1		<10	<0.5	<0.3	<3	<5
1,2,4-Trimethylbenzene					620	2200	110	20		137.7	160	340	310	250
1,2-Dibromo-3-chloropropane					<3	<300	<3	<3		<30	<0.3	<0.3	<3	<3
1,2-Dibromoethane					<2	<200	<2	<2		<20	<0.2	<0.4	<4	<3
1,2-Dichlorobenzene					<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<3
1,2-Dichloroethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4
1,2-Dichloropropane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.1	<0.2	<2	<3
1,3,5-Trimethylbenzene					230	2400	130	400		85.0	140	190	180	140
1,3-Dichlorobenzene					<1	<100	<1	<1	<20	<10	<0.7	<0.4	<4	<4
1,3-Dichloropropane					<1	<100	<1	<1		<10	<0.3	<0.6	<6	<4
1,4-Dichlorobenzene					<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<4
2,2-Dichloropropane					<1	<100	<1	<1		<10	<0.2	<0.5	<5	<2
2-Butanone (MEK)	<100	<100	<100	38.5										
2-Chloroethyl vinyl ether									<200					
2-Chlorotoluene					<1	<100	<1	<1		<10	<0.4	<0.3	<3	<4
2-Hexanone	<100	<100	<100	<10										
4-Chlorotoluene					<1	<100	<1	<1		<10	<0.3	<0.3	<3	<3
4-Methyl-2-Pentanone (MIBK)	<100	<100	<100	<10										
Acetone	<100	191	123	170										
Benzene	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	<3	<1
Bromobenzene					<1	<100	<1	<1		<10	<0.3	<0.2	<2	<5
Bromochloromethane					<1		<1	<1		<10	<0.4	<0.2	<2	<4
Bromodichloromethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<2
Bromoform	<50	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.2	<2	<1
Bromomethane	<100	<100	<100	<10	<2		<2	<2	<40	<20	<0.3	<0.9	<9	<4
Carbon disulfide	<50	<50	<50	<5										
Carbon tetrachloride	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.4	<4	<3
Chlorobenzene	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<3
Chlorodibromomethane	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<4

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - 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	07/09/96	07/11/97	06/24/98	06/08/99	07/19/00
Chloroethane	<100	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.4	<0.8	<8	<5
Chloroform	<50	<50	<50	<5	<1	<100	<1	2.8	<20	<10	<0.2	<0.2	<2	<5
Chloromethane	<100	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.7	<0.9	<9	<3
cis-1,2-Dichloroethene					<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4
cis-1,3-Dichloropropene	<50	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.3	<3	<2
Dibromomethane					<1		<1	<1		<10	<0.1	<0.2	<2	<4
Dichlorodifluoromethane					<2	<200	<2	<2		<20	<0.3	<1.2	<12	<5
Diisopropyl Ether						<100							<3	<1
Ethylbenzene	<50	<50	<50	<5	6.3	600	<1	<1	<20	<10	<0.2	<0.2	<2	<1
Hexachlorobutadiene					<1	<100	<1	<1		<10	<0.5	<0.6	<6	<6
Isopropylbenzene					57	2000	7.1	14		21.9	<0.2	68	60	22
Methyl tert-butyl ether						<100							<2	<11
Methylene chloride	85.3	<50	53.7	<10	<3	<300	<3	<3	<60	<30	<0.3	<0.5	<5	<19
n-Butylbenzene					230	4800	120	280		128.9	110	170	180	190
n-Propylbenzene					36	2400	6.6	<1		25.6	110	54	57	32
Naphthalene	130	<103	48.1	52.3	95	630	44	27	52	17.2	<0.8	34	32	19
p-Isopropyltoluene					<1	1200	13	<1		56.0	<0.4	40	160	40
sec-Butylbenzene					58	2900	12	13		21.7	<0.3	60	75	47
Styrene	<50	<50	<50	<5	5.9		<1	<1		<10	<0.2	<0.2	<2	<2
tert-Butylbenzene					<1	<100	<1	<1		<10	<0.3	40	<3	<1
Tetrachloroethene	<50	<50	<50	<5	1.3	<100	3.8	6.5	<20	<10	<0.3	<0.6	<6	<4
Toluene	<50	<50	<50	<5	7.5	<100	3.6	<1	<20	<10	<0.2	<0.2	<2	4
trans-1,2-Dichloroethene	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	<3	<8
trans-1,3-Dichloropropene	<50	<50	<50	<5	<1		<1	<1	<20	<10	<0.2	<0.2	<2	<5
Trichloroethene	<50	<50	<50	<5	3.8	<100	4	4.4	<20	<10	<0.2	<0.3	<3	<3
Trichlorofluoromethane					<1	<100	<1	<1	<20	<10	<0.5	<0.6	<6	<4
Vinyl acetate	<100	<100	<100	<10										
Vinyl chloride	<100	<100	<100	<10	<1	<100	<1	<1	<20	<10	<0.3	<0.5	<5	<4
Xylene, o-					190	2700	18	160	140	<10	<0.2	<0.5	140	69
Xylene, m & p-					60	500	5	5.8	77	<20	<0.4	48	22	11
Xylenes, Total	125	66.2	135	67.3	250	3200	23	165.8	217	<30	<0.6	48	162	80

NOTES: All Units are in ug/L

B

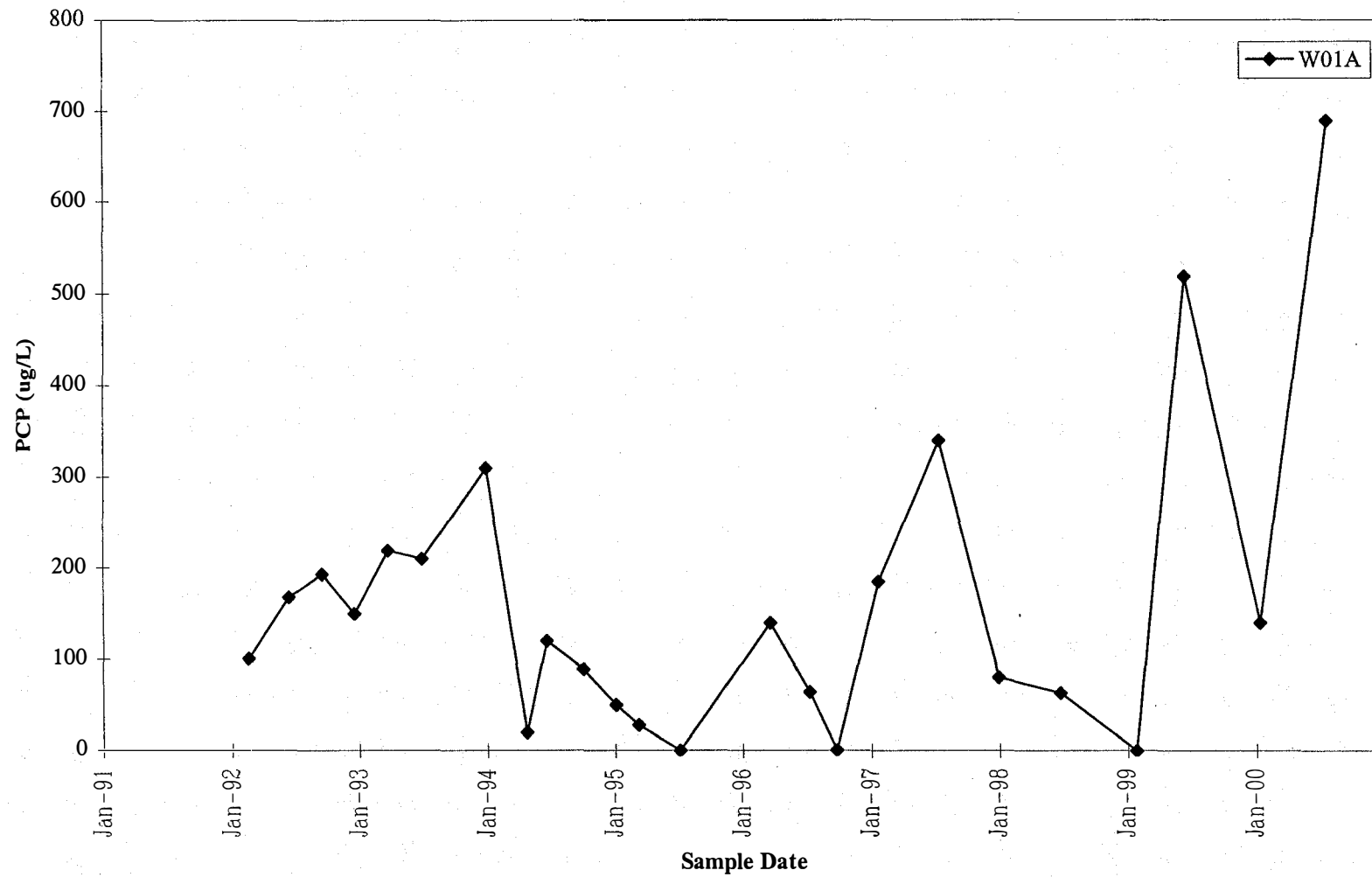
HISTORICAL PCP AND CHLORIDE ANALYSIS RESULTS

B1	Pentachlorophenol Concentrations
B2	Chloride Concentrations

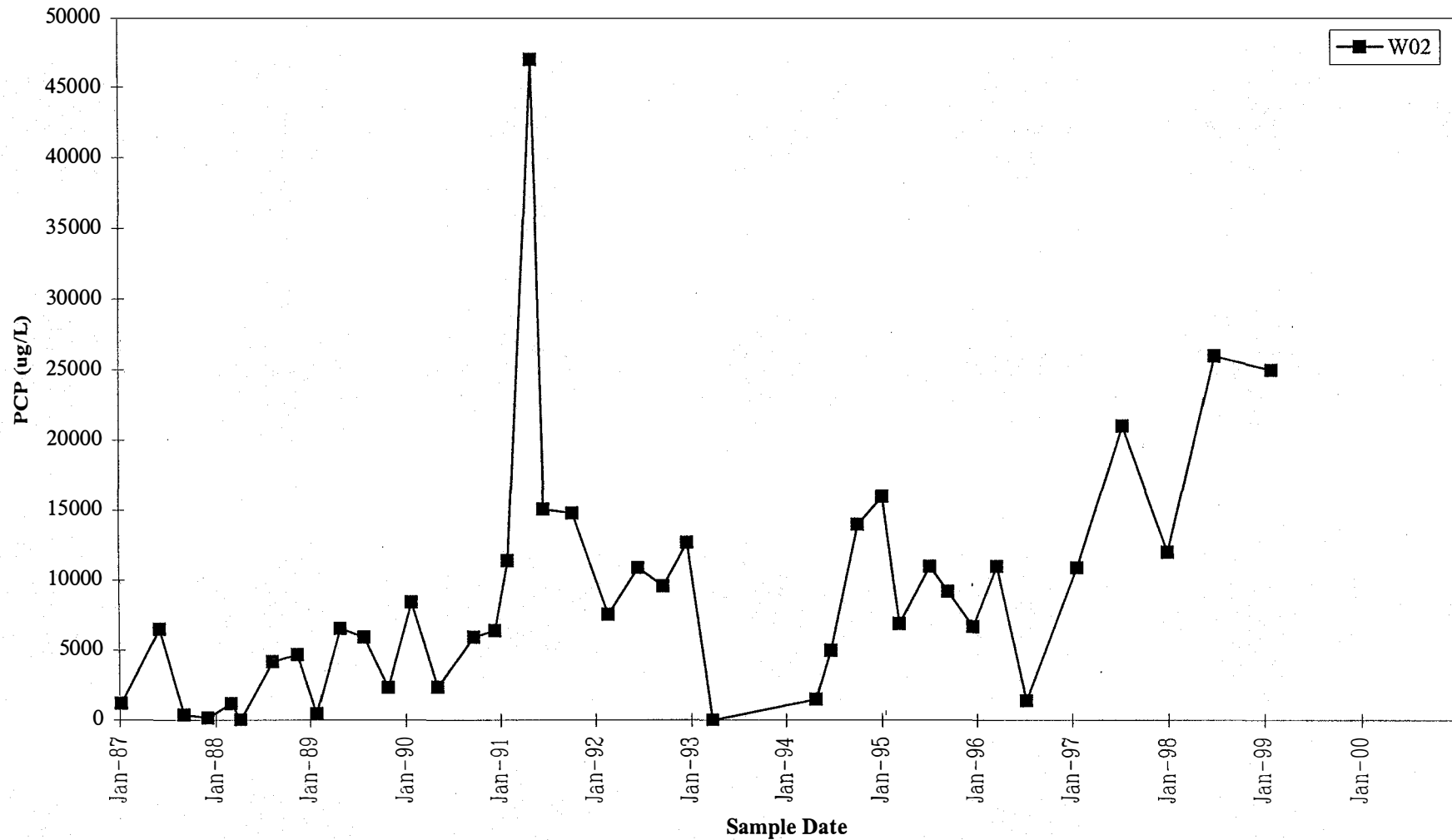
B1

Pentachlorophenol Concentrations

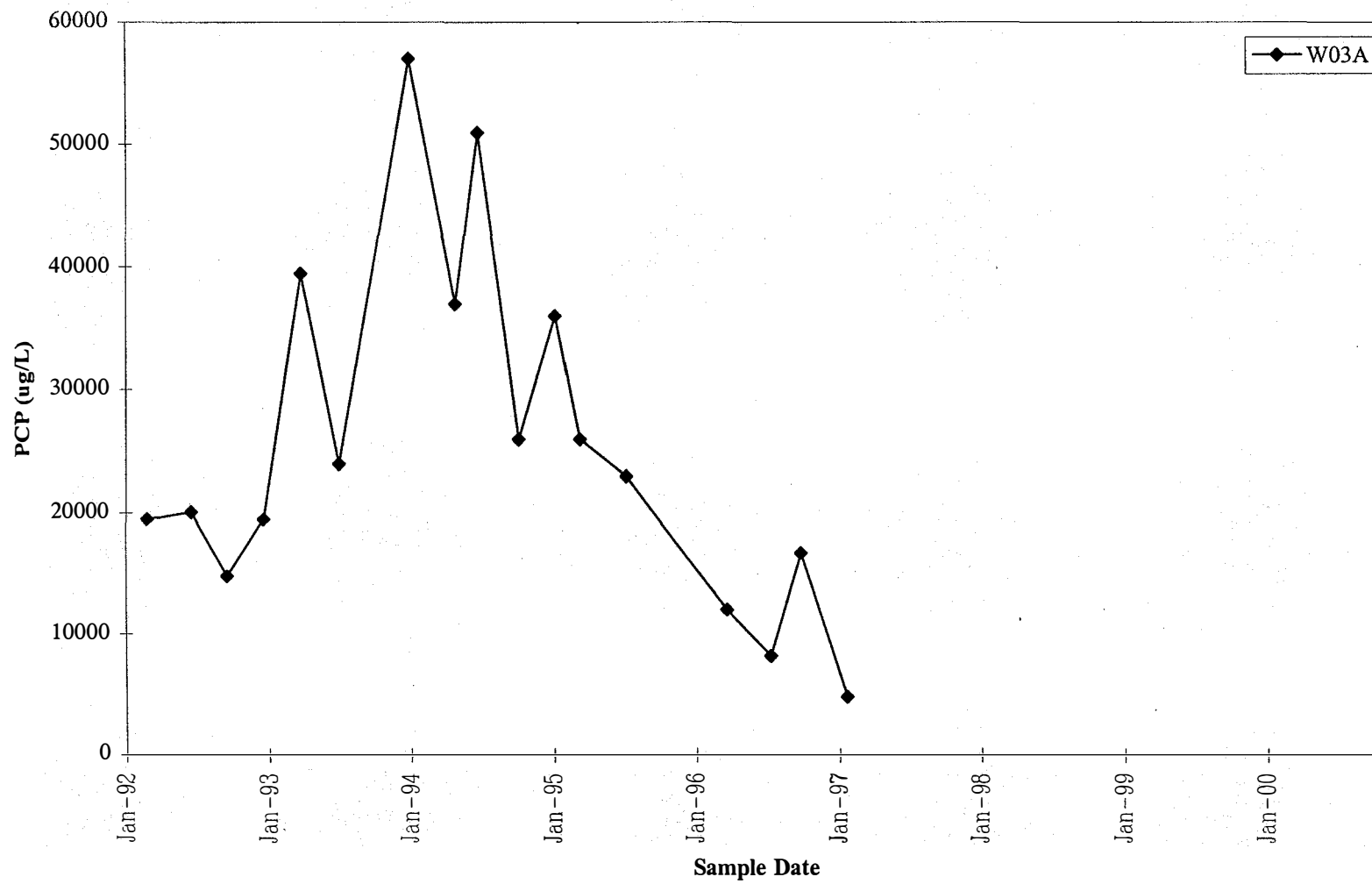
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



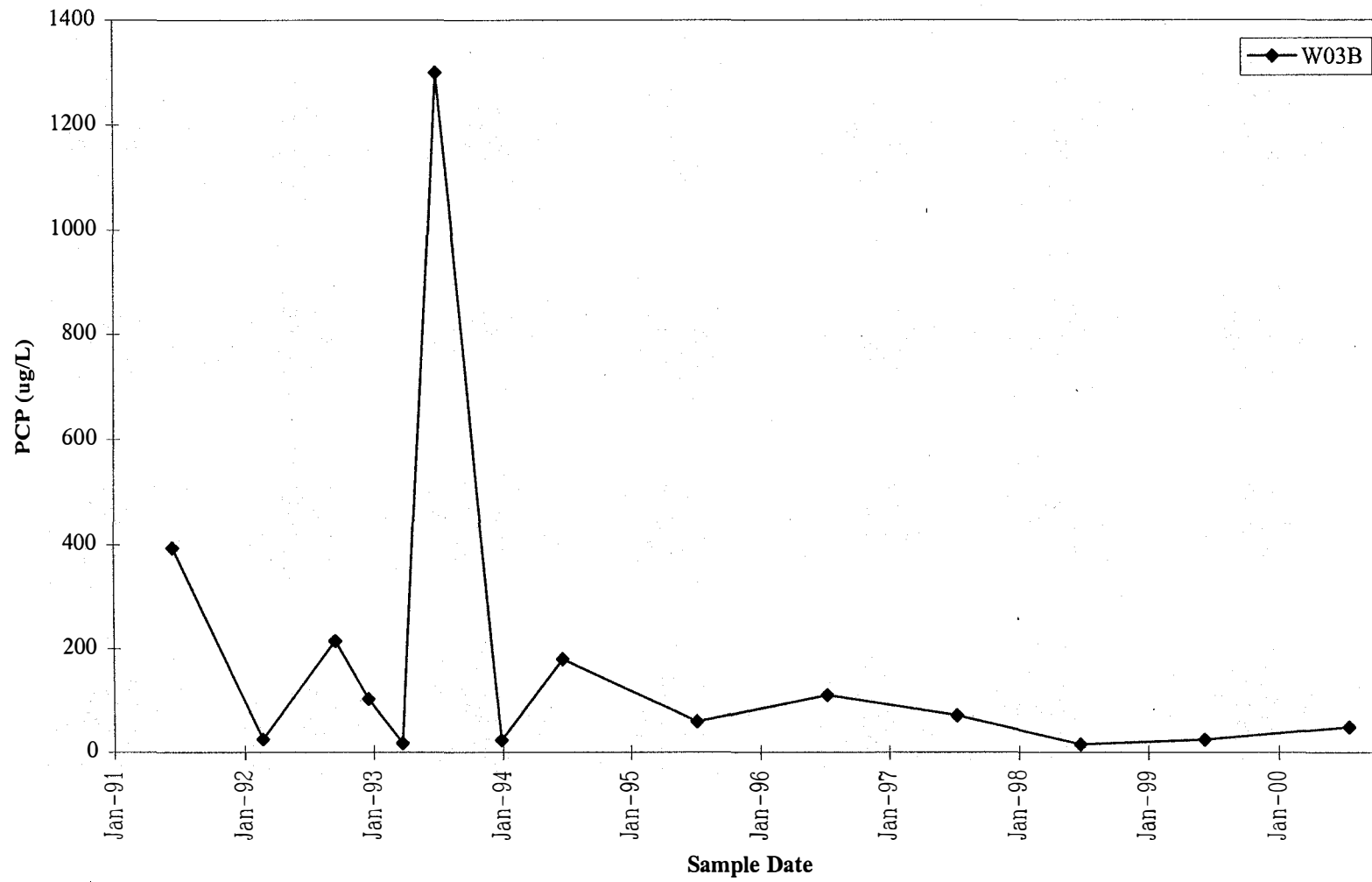
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



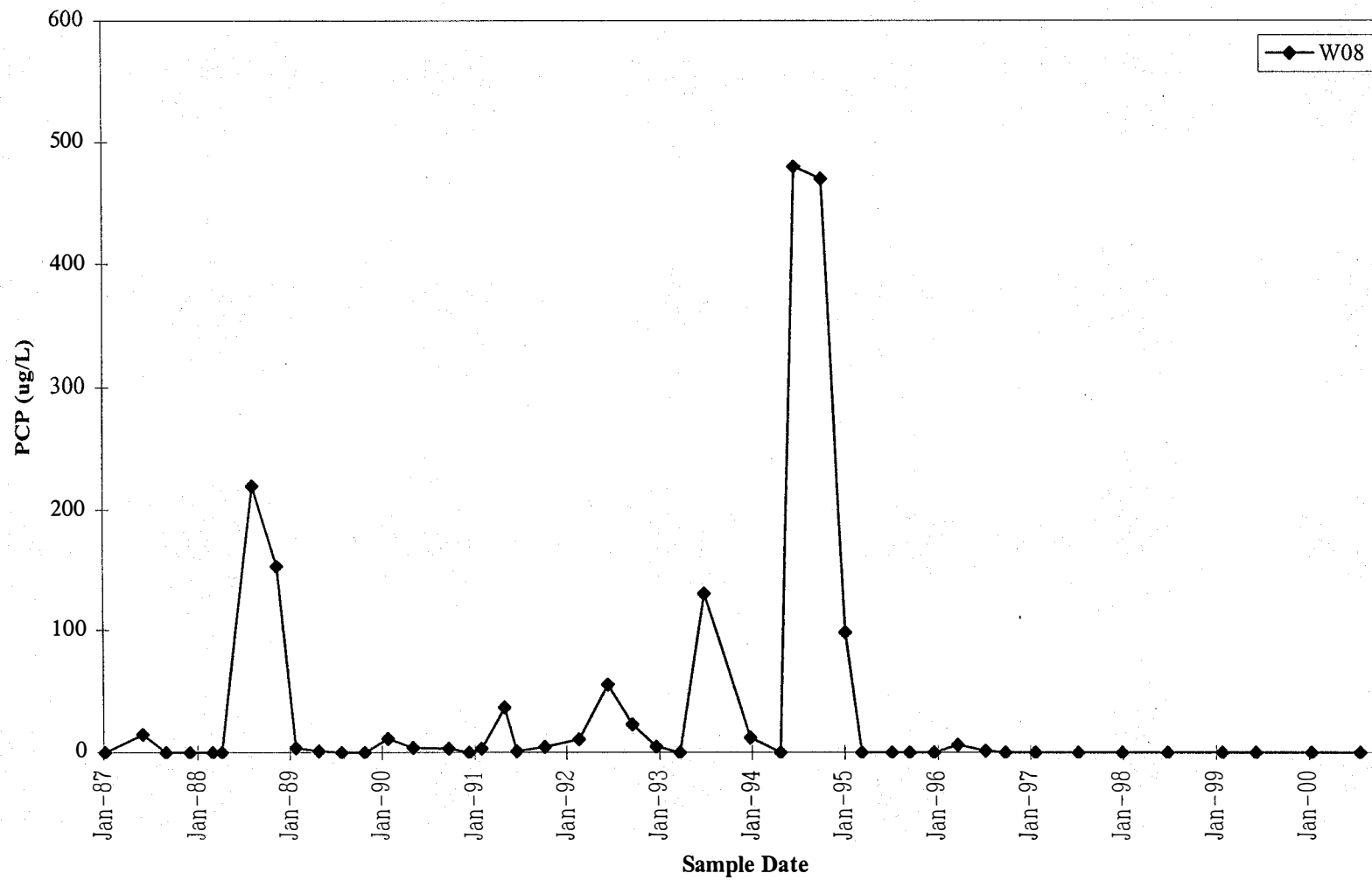
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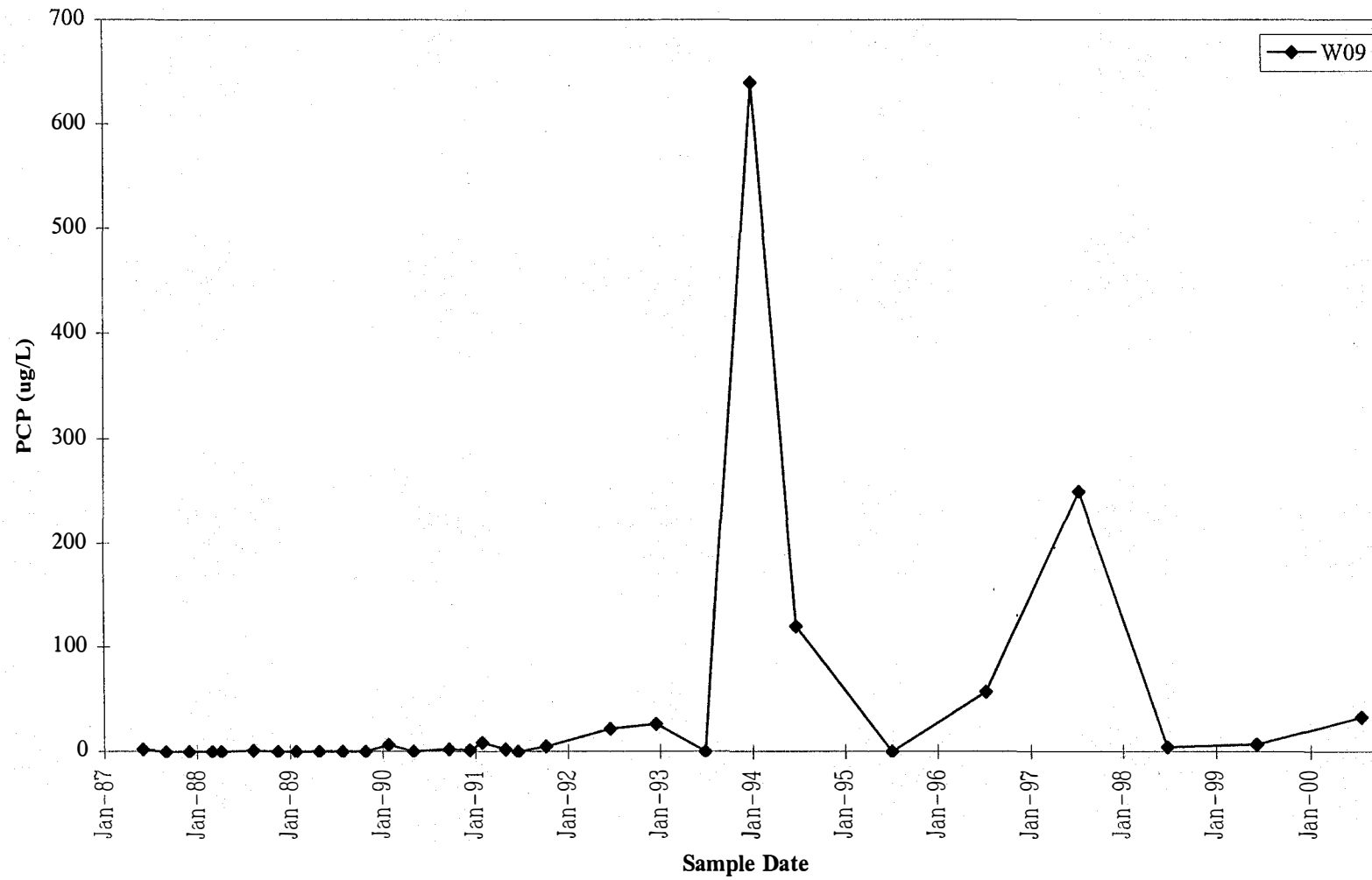
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



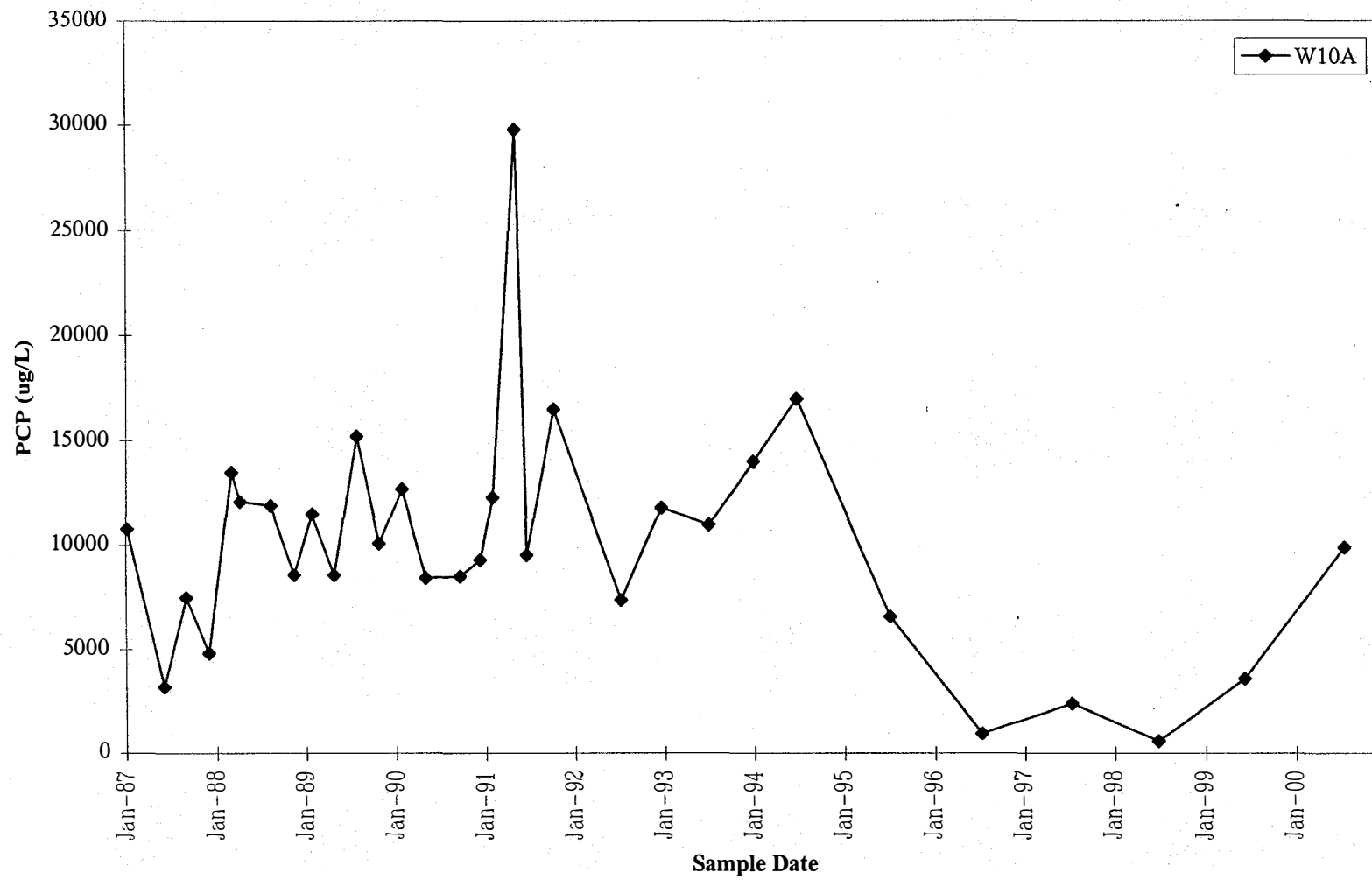
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



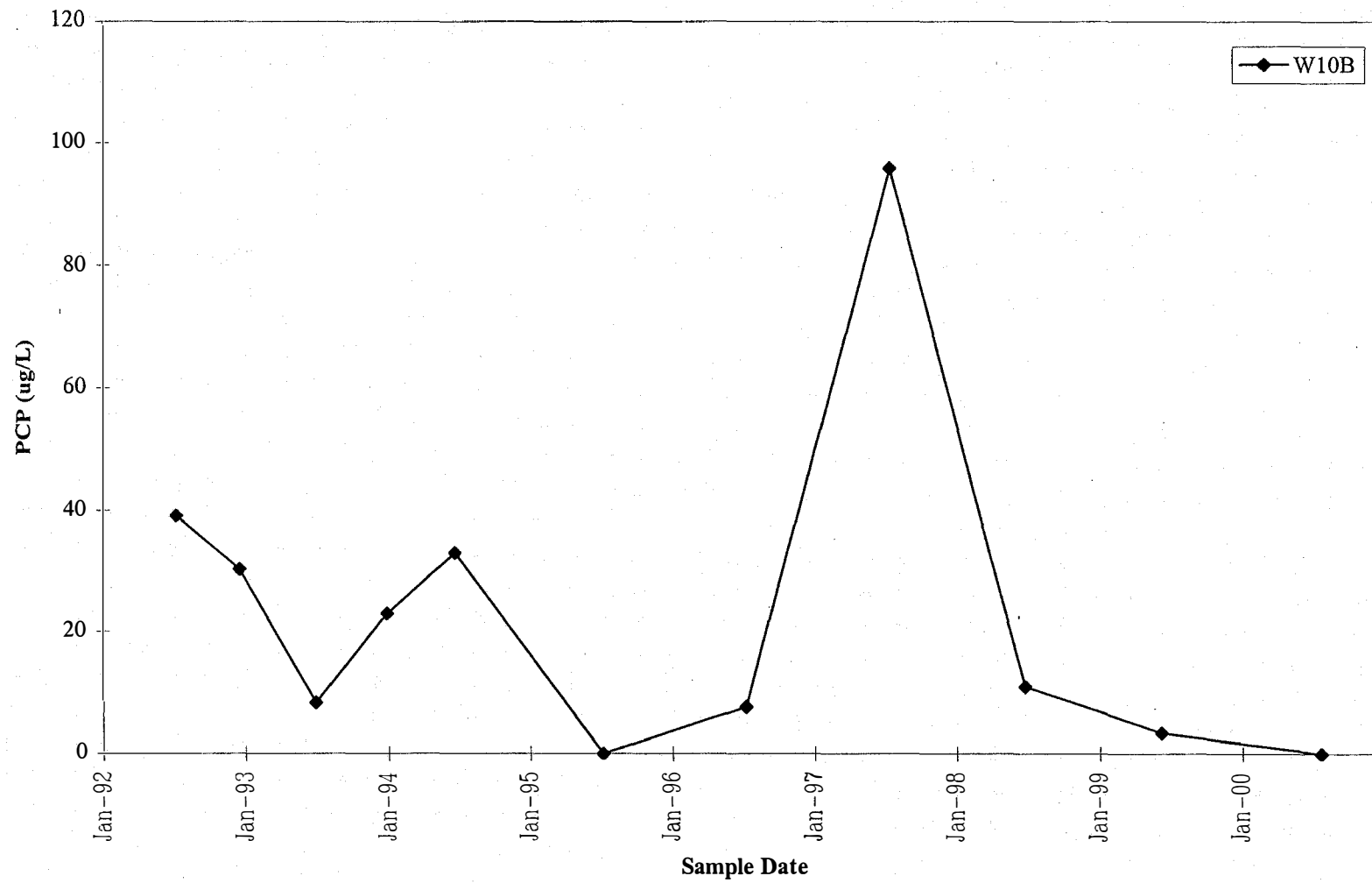
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



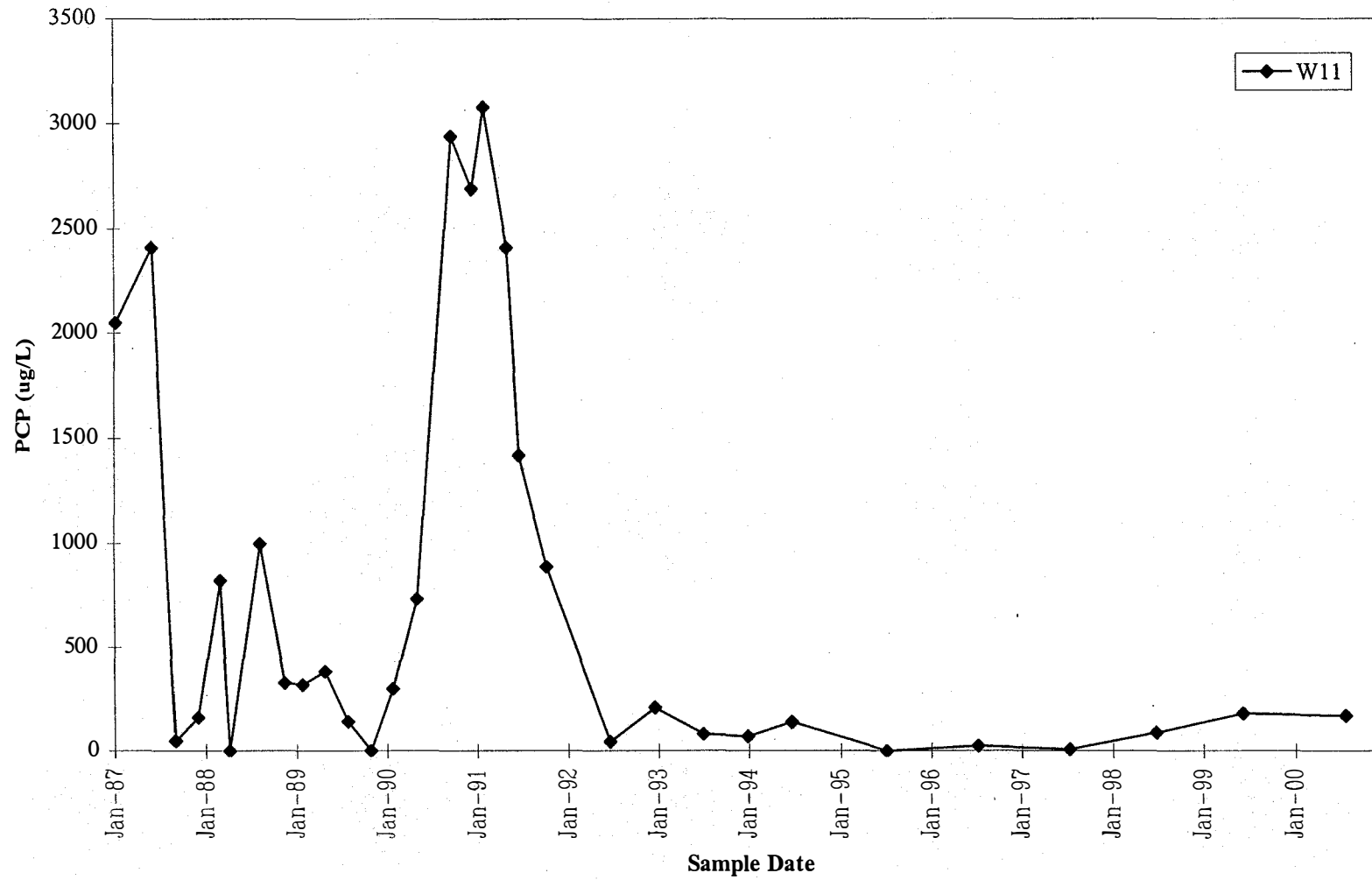
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



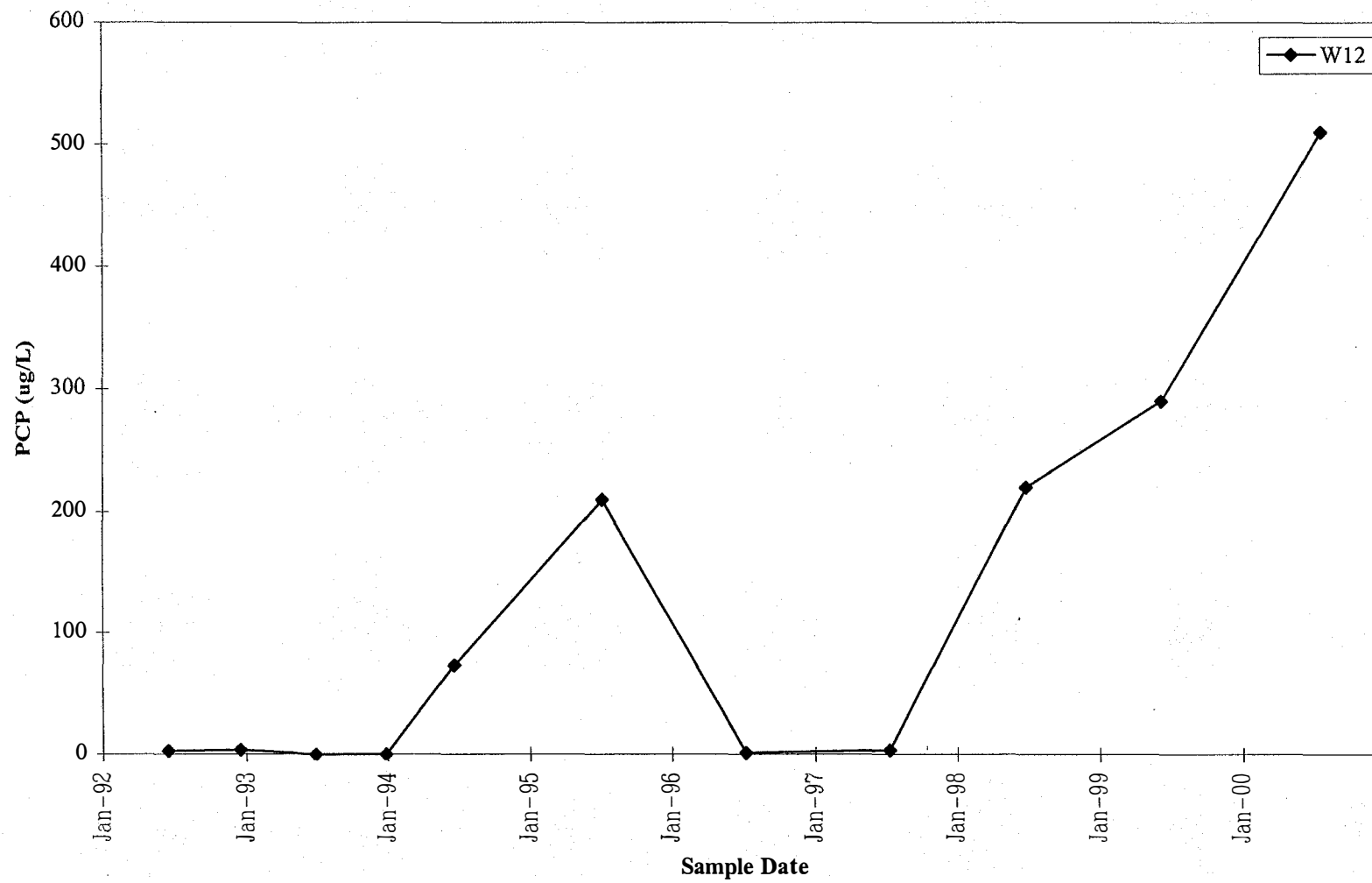
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



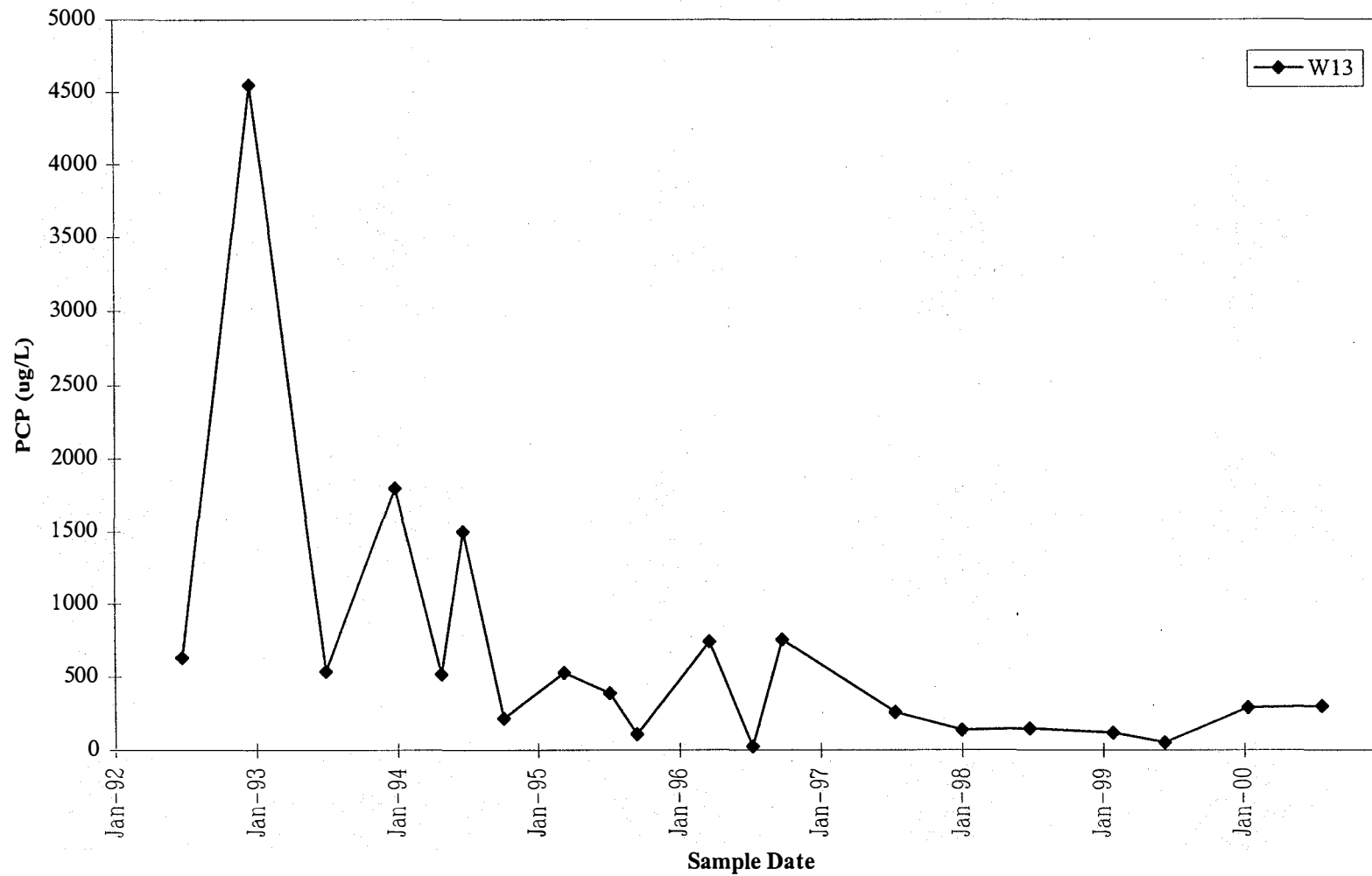
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



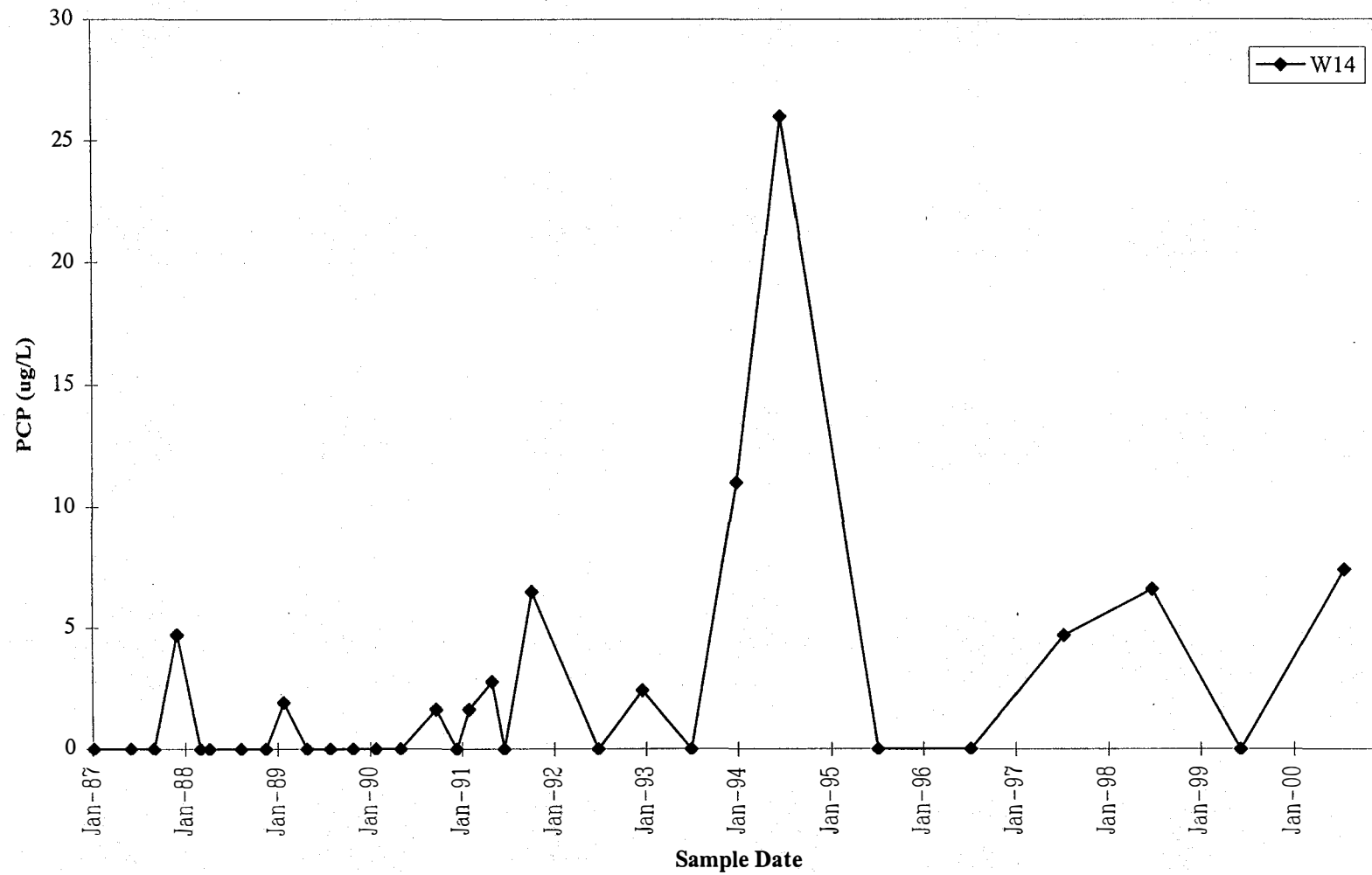
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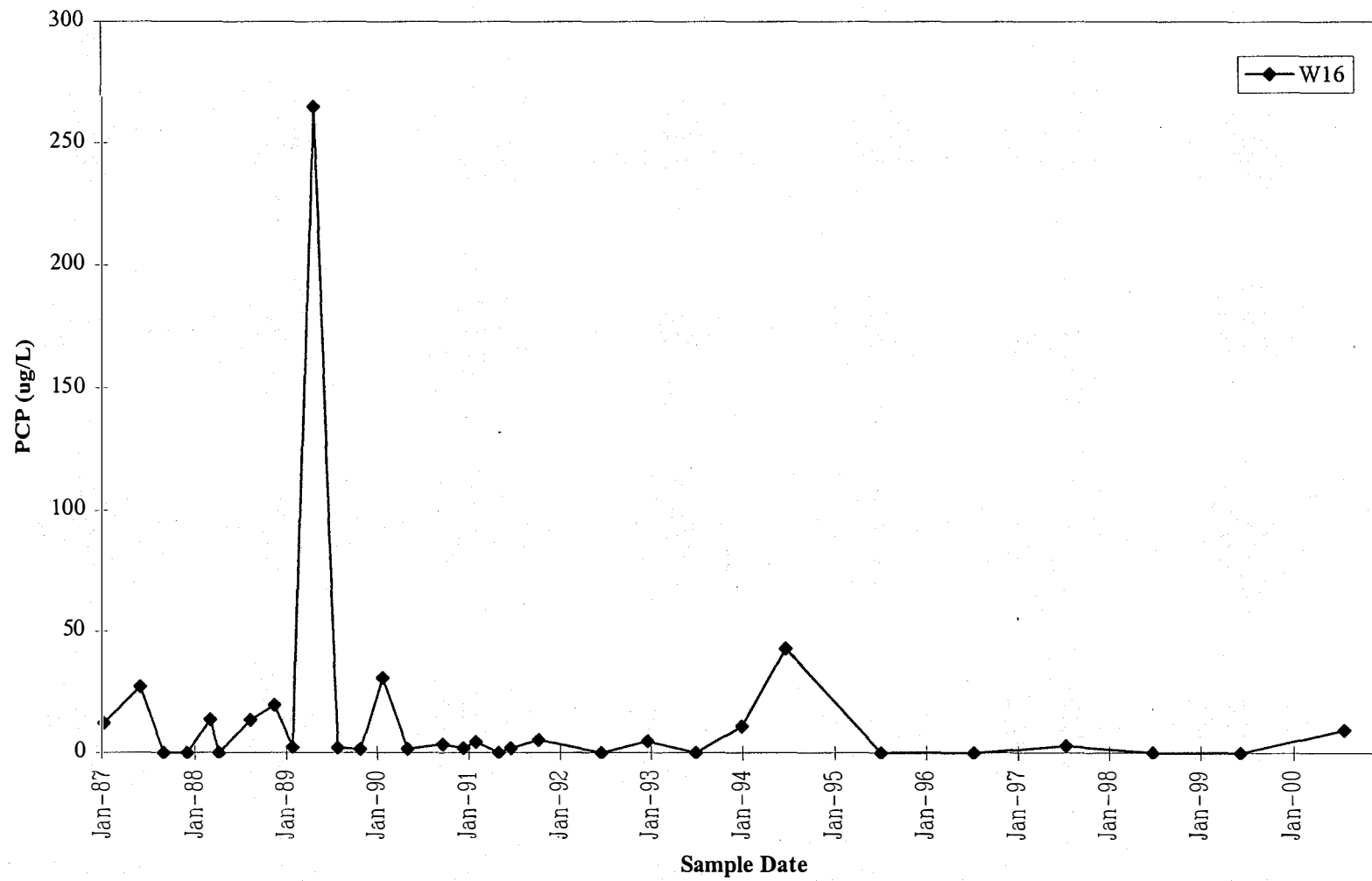
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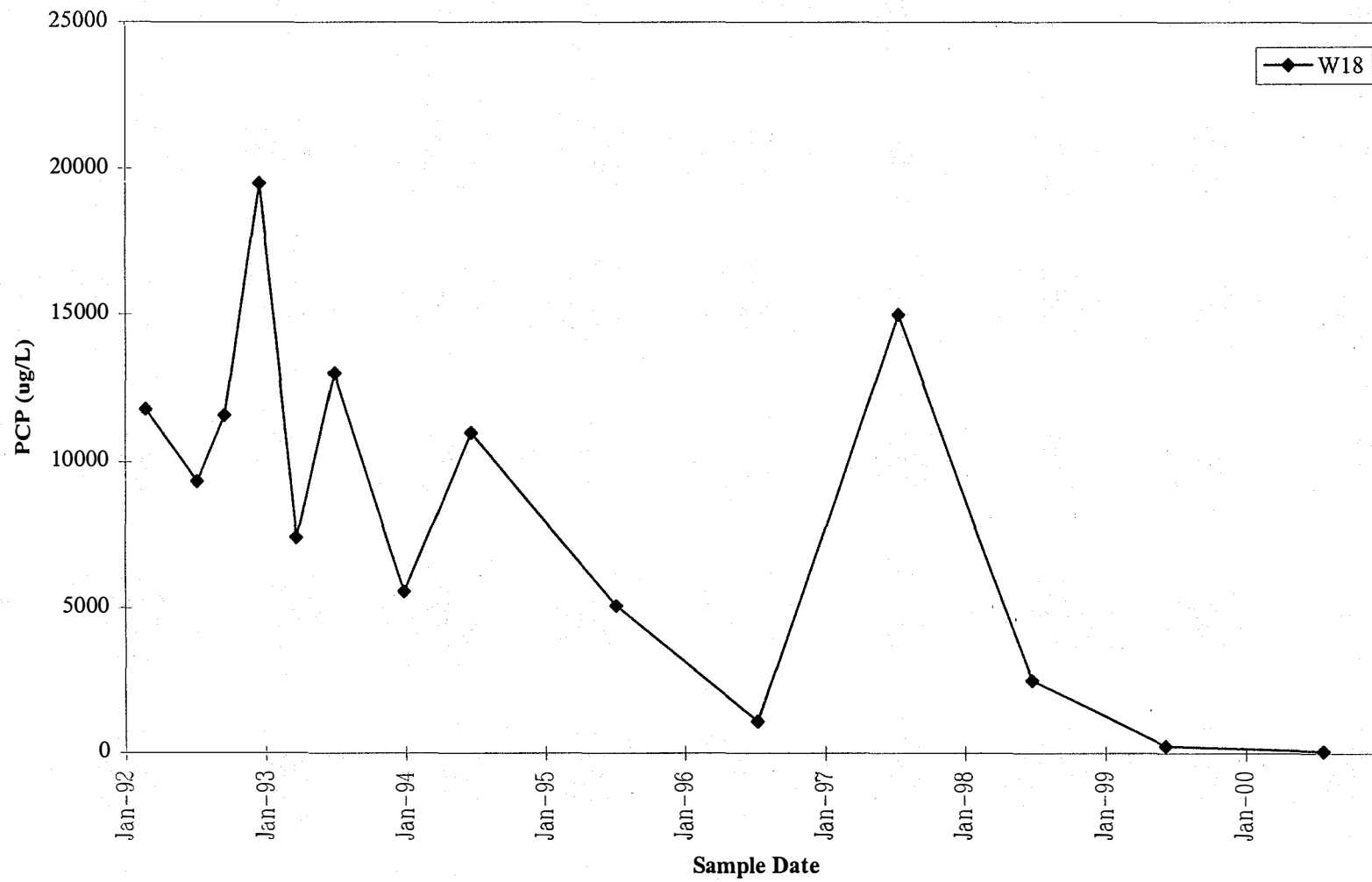
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



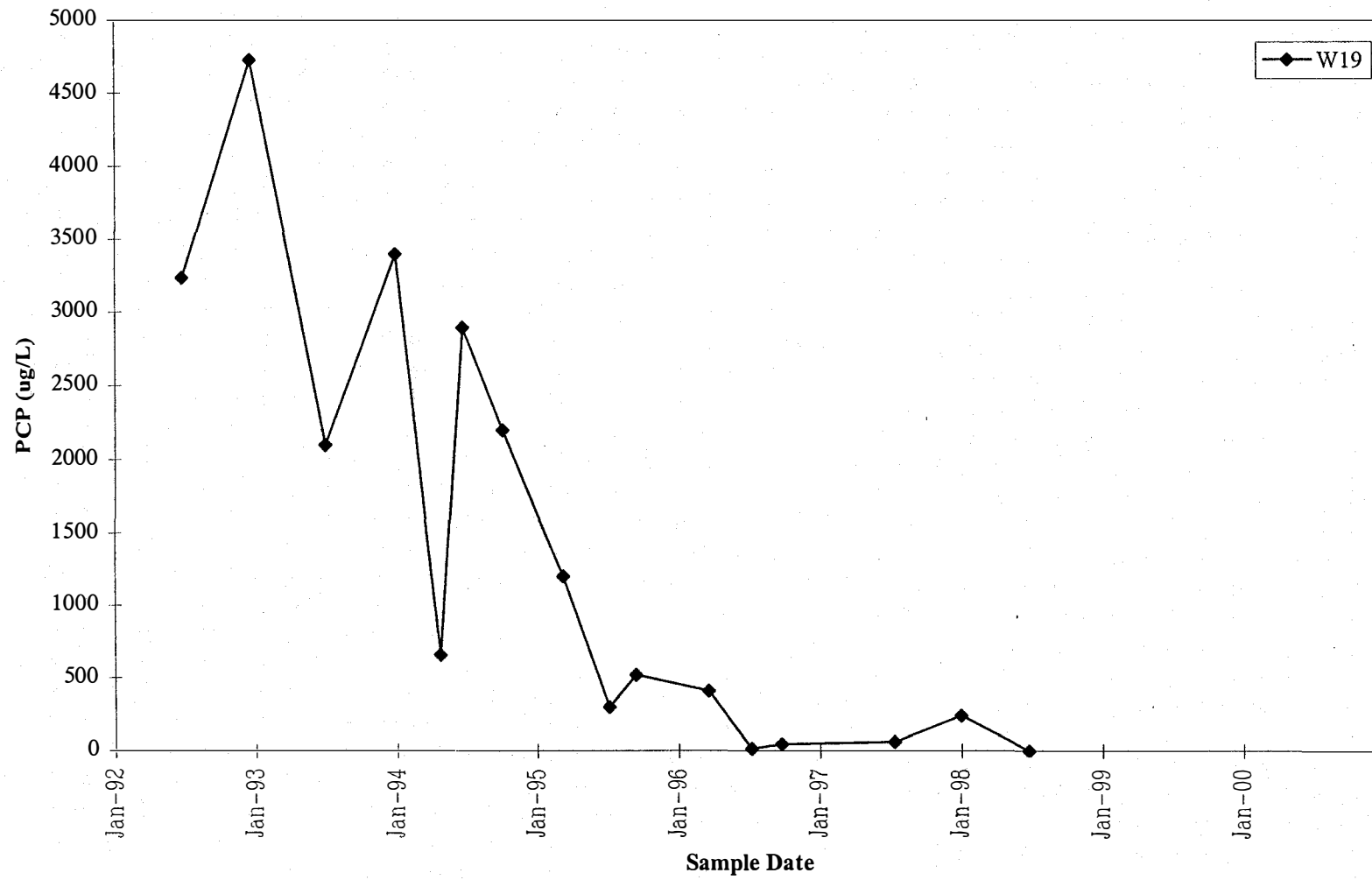
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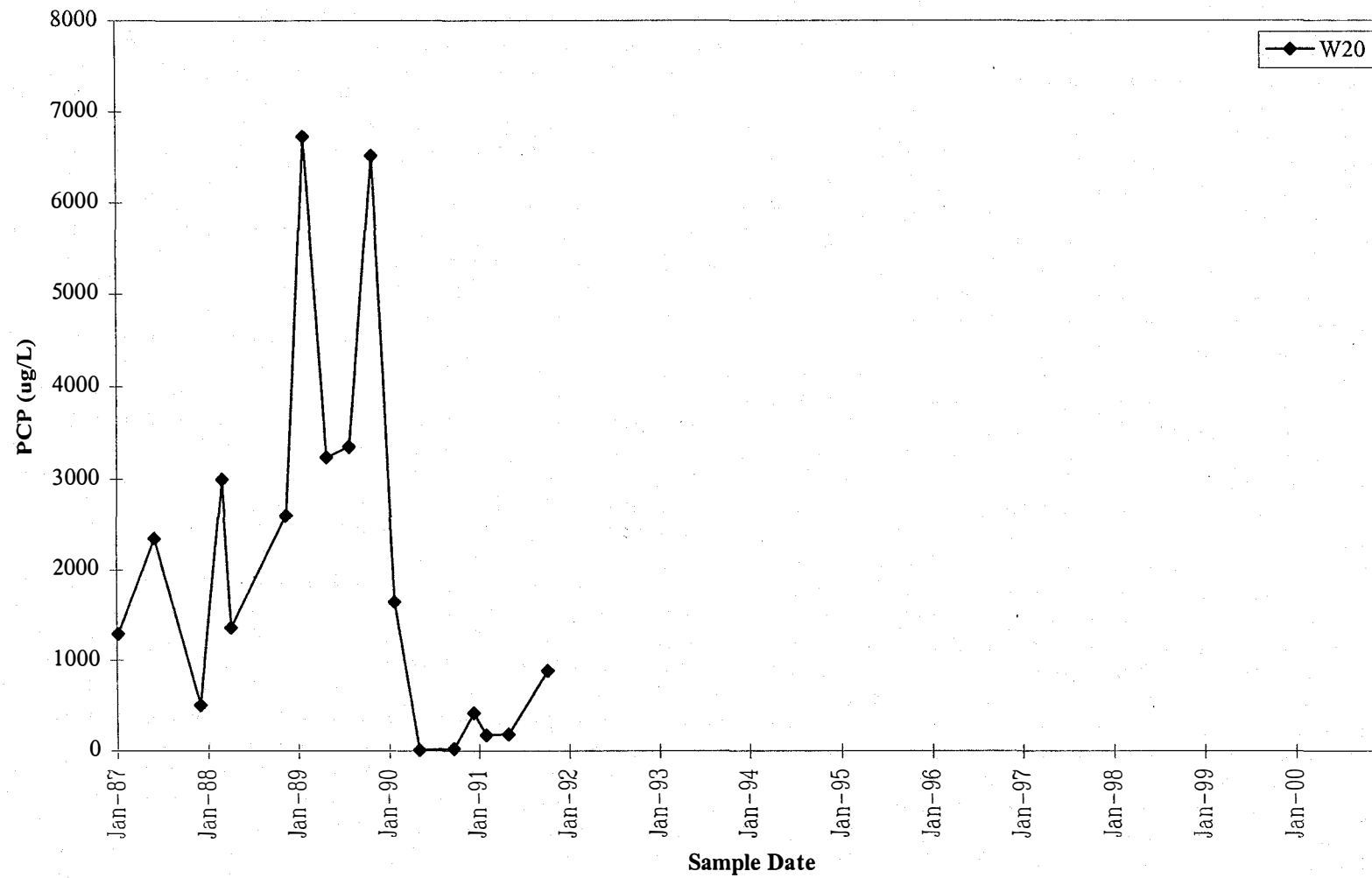
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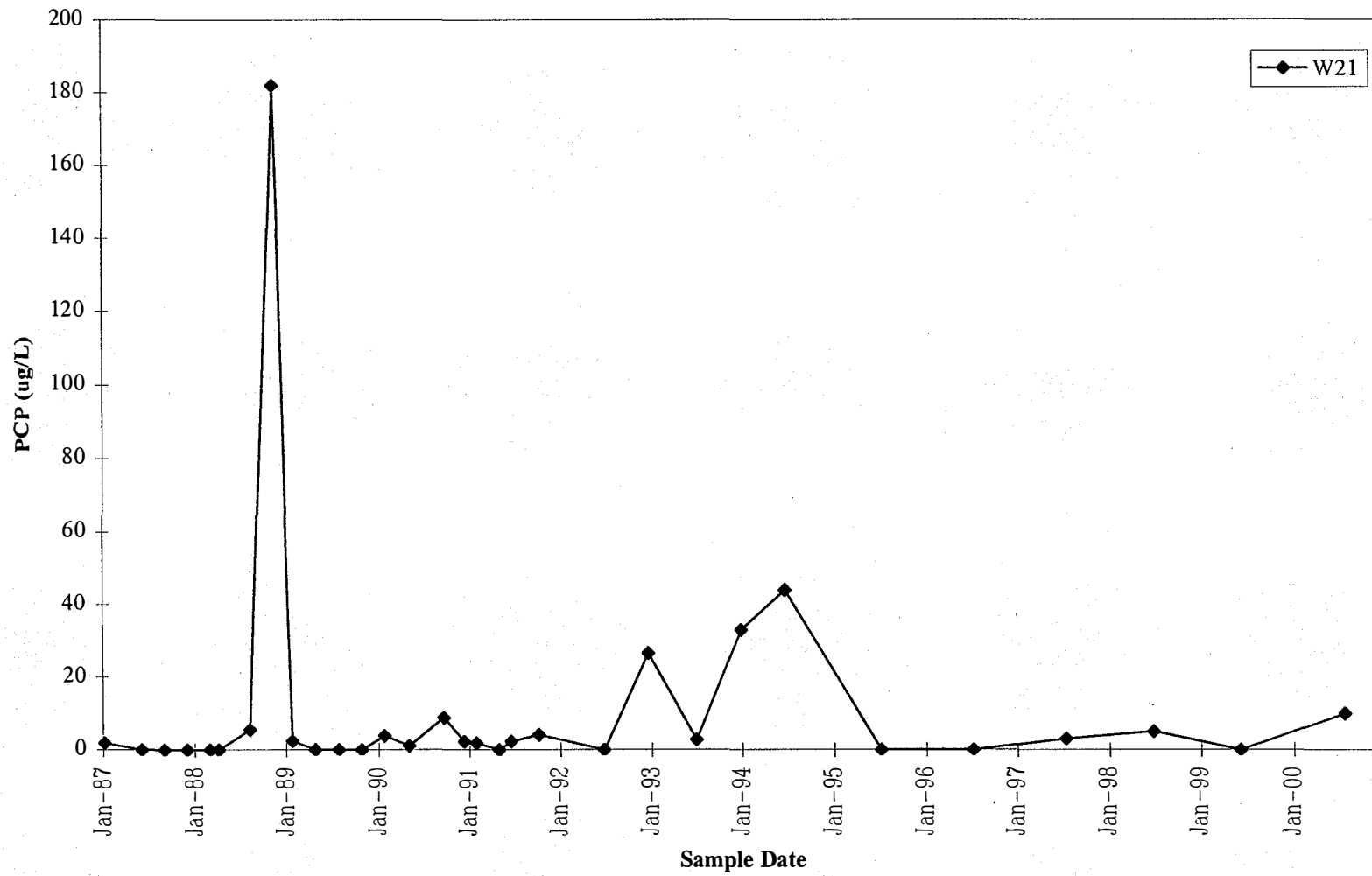
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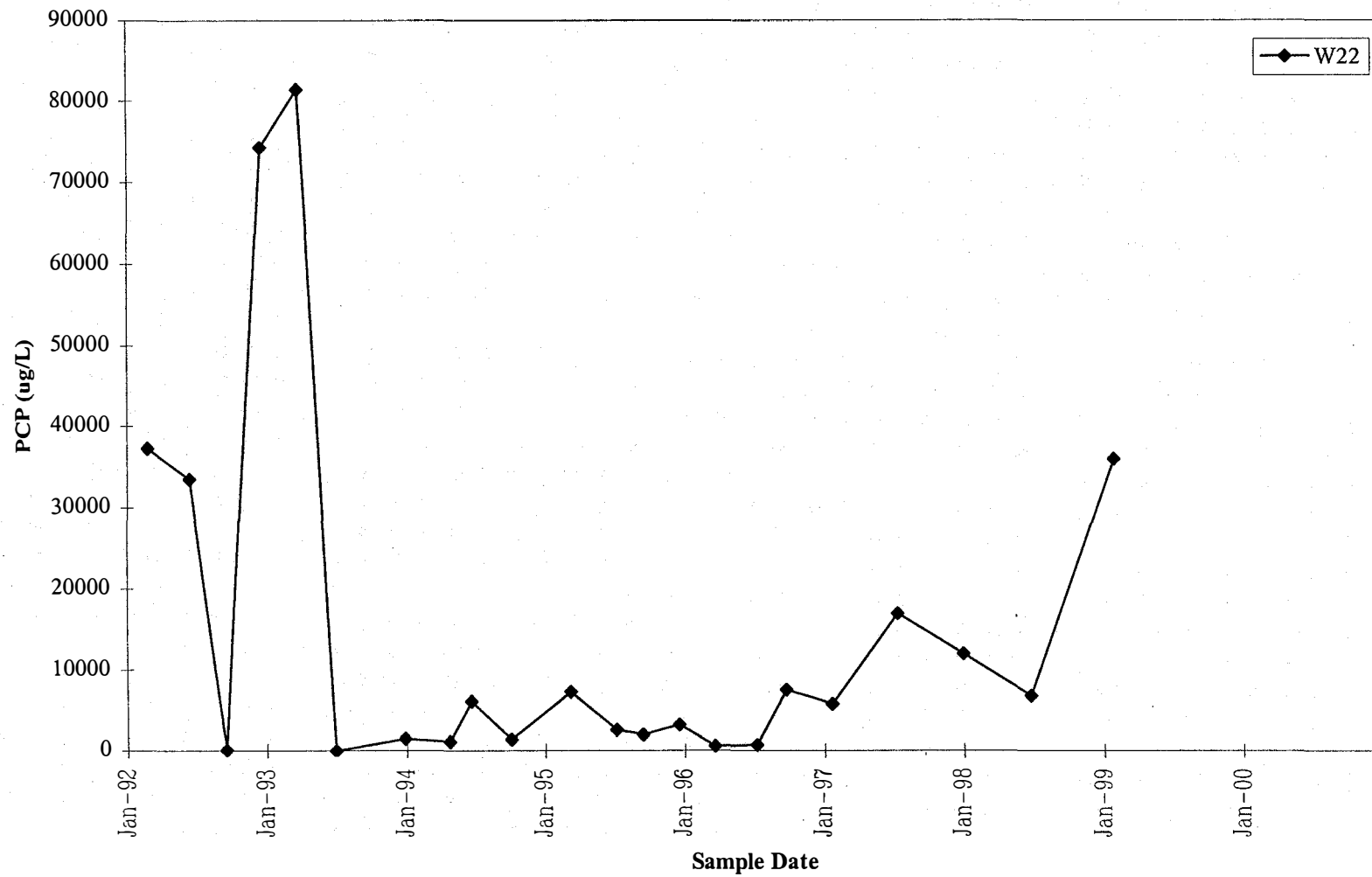
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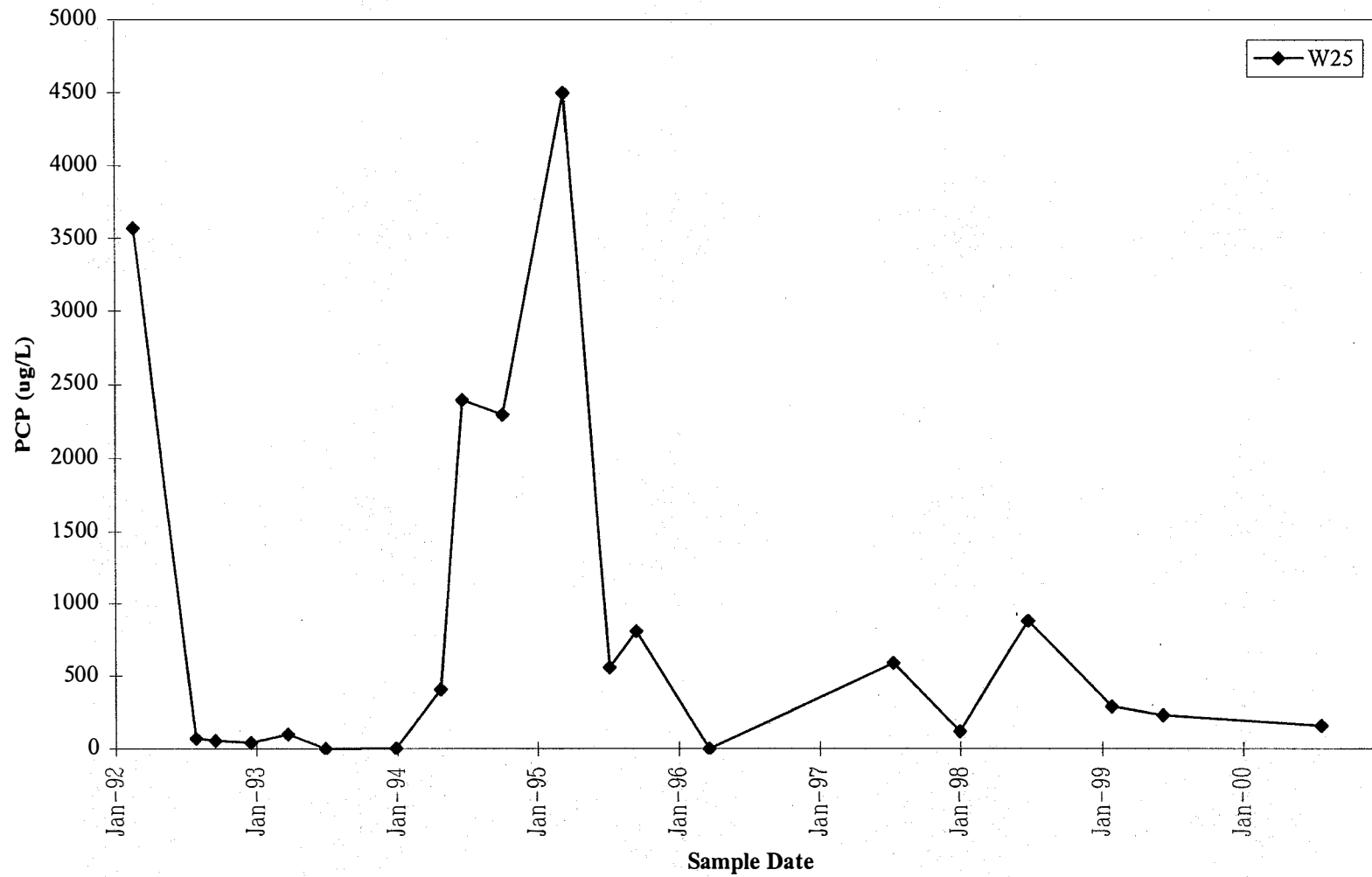
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



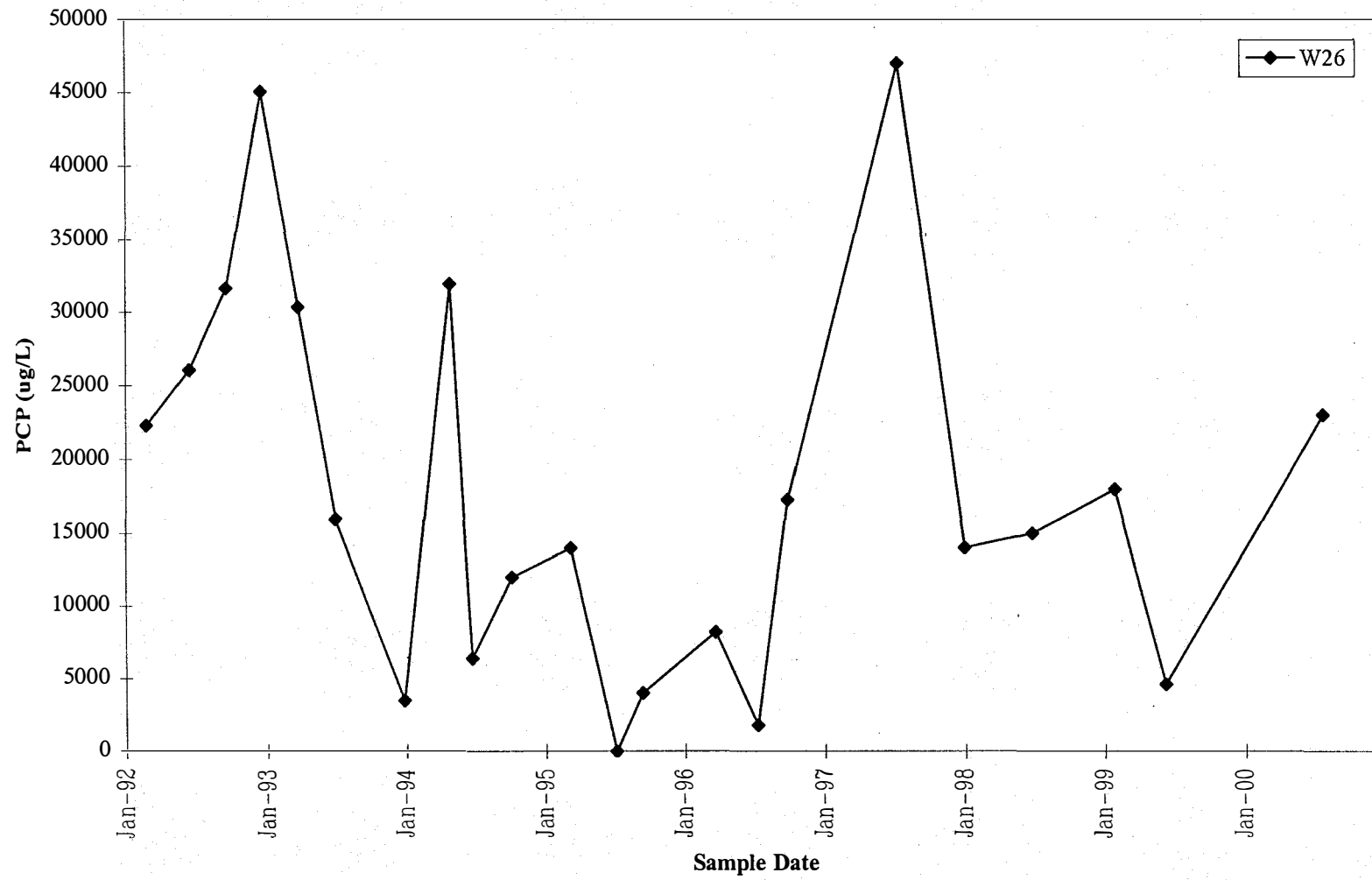
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



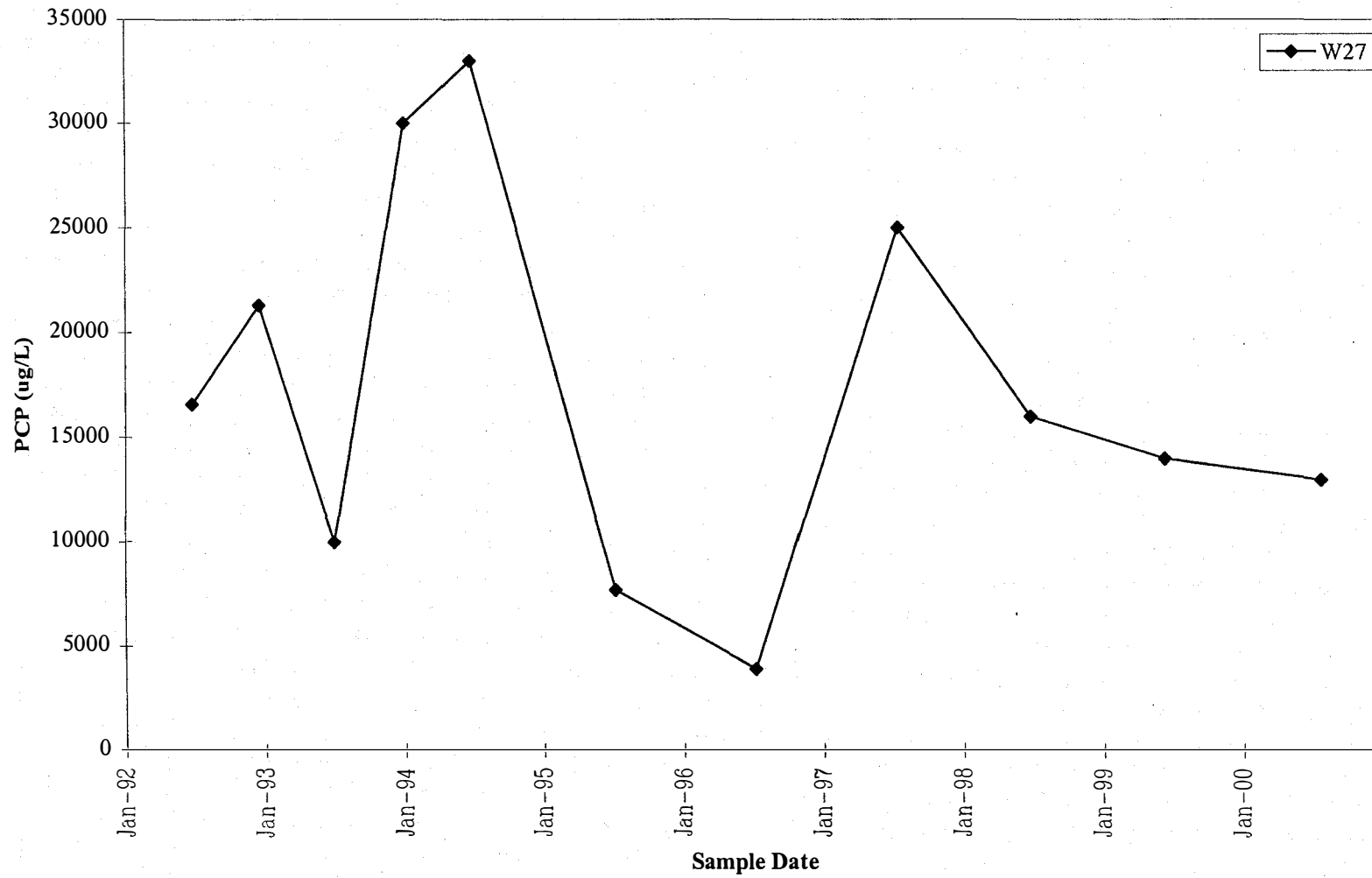
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



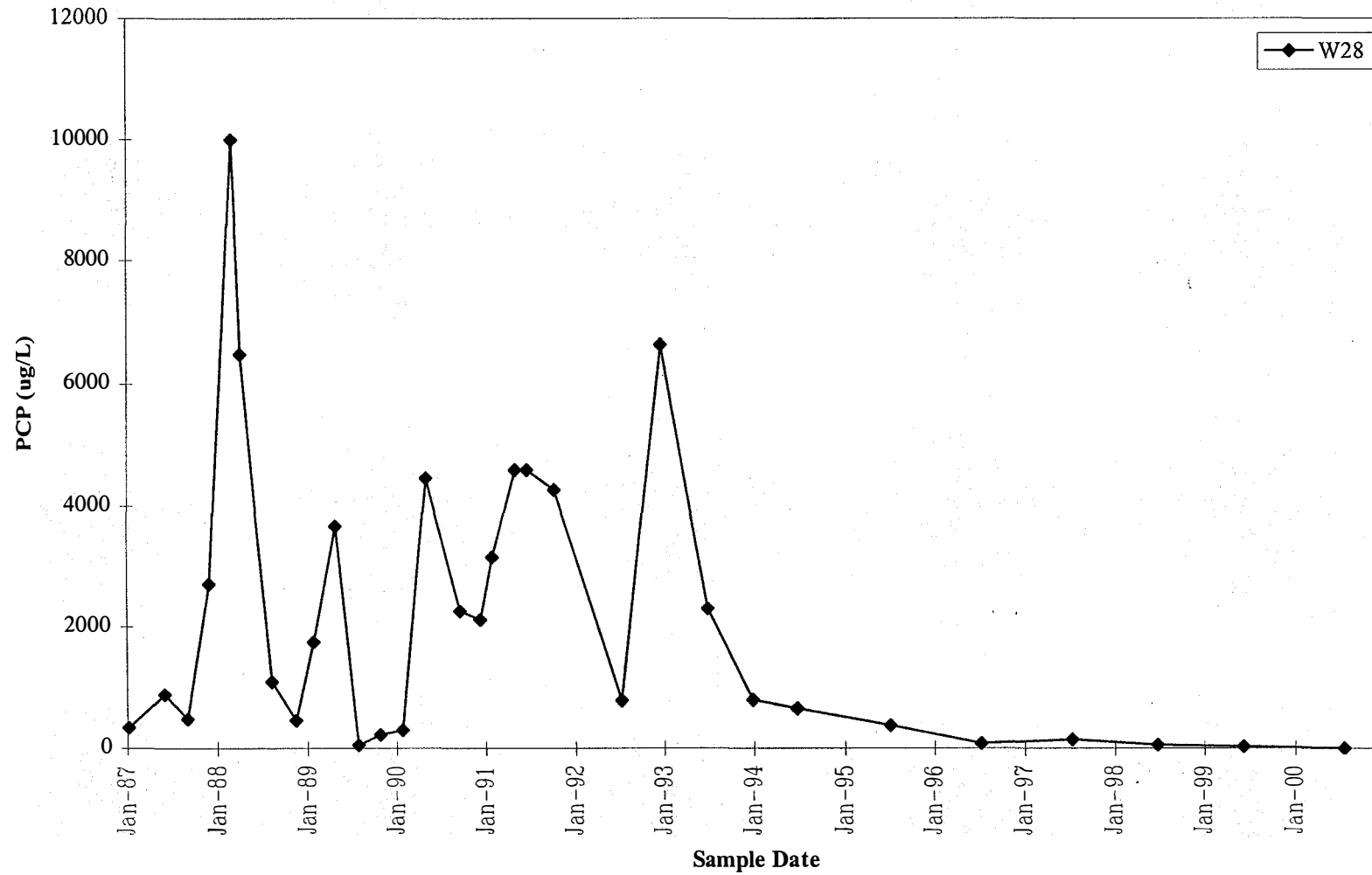
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



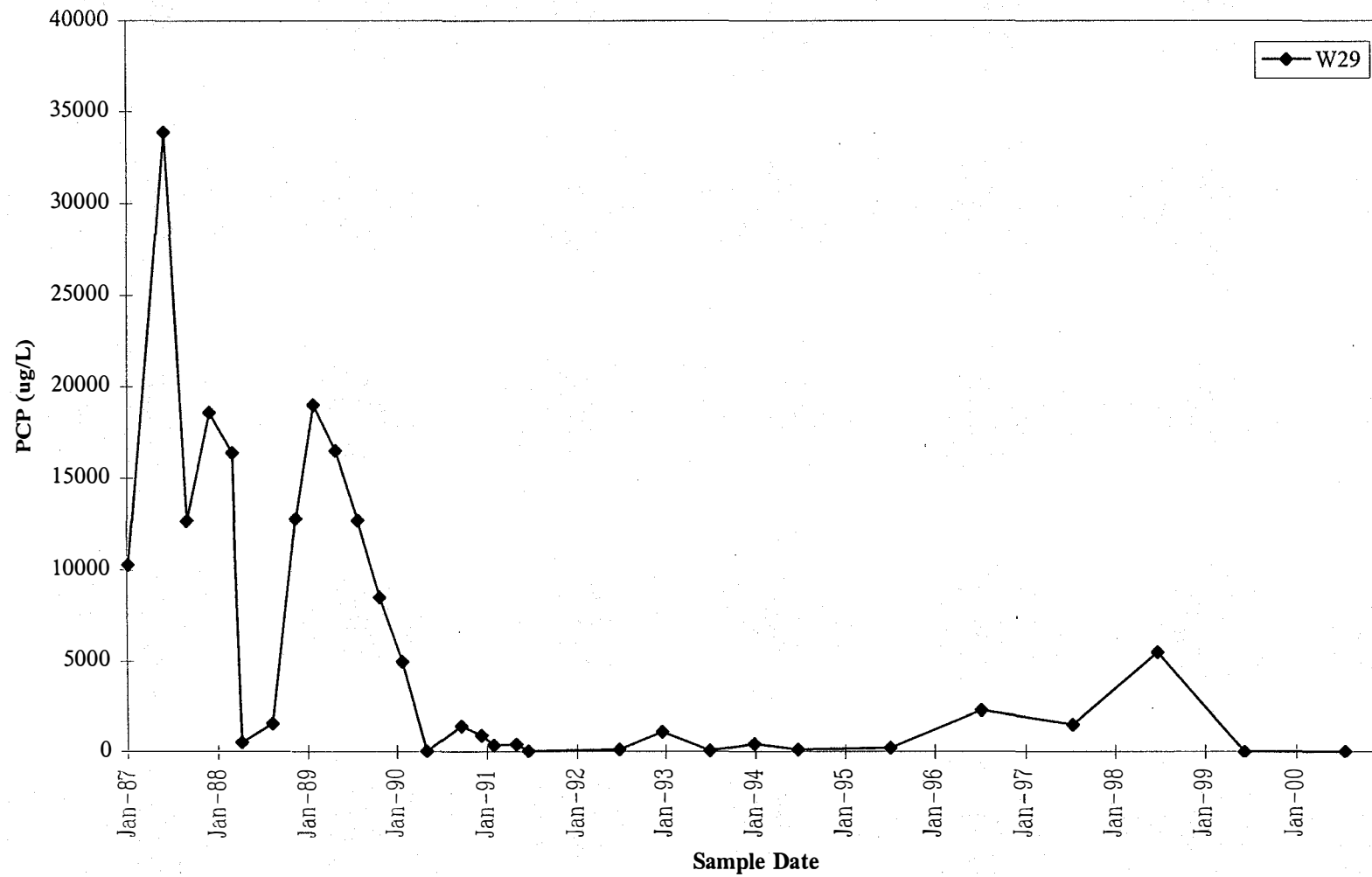
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



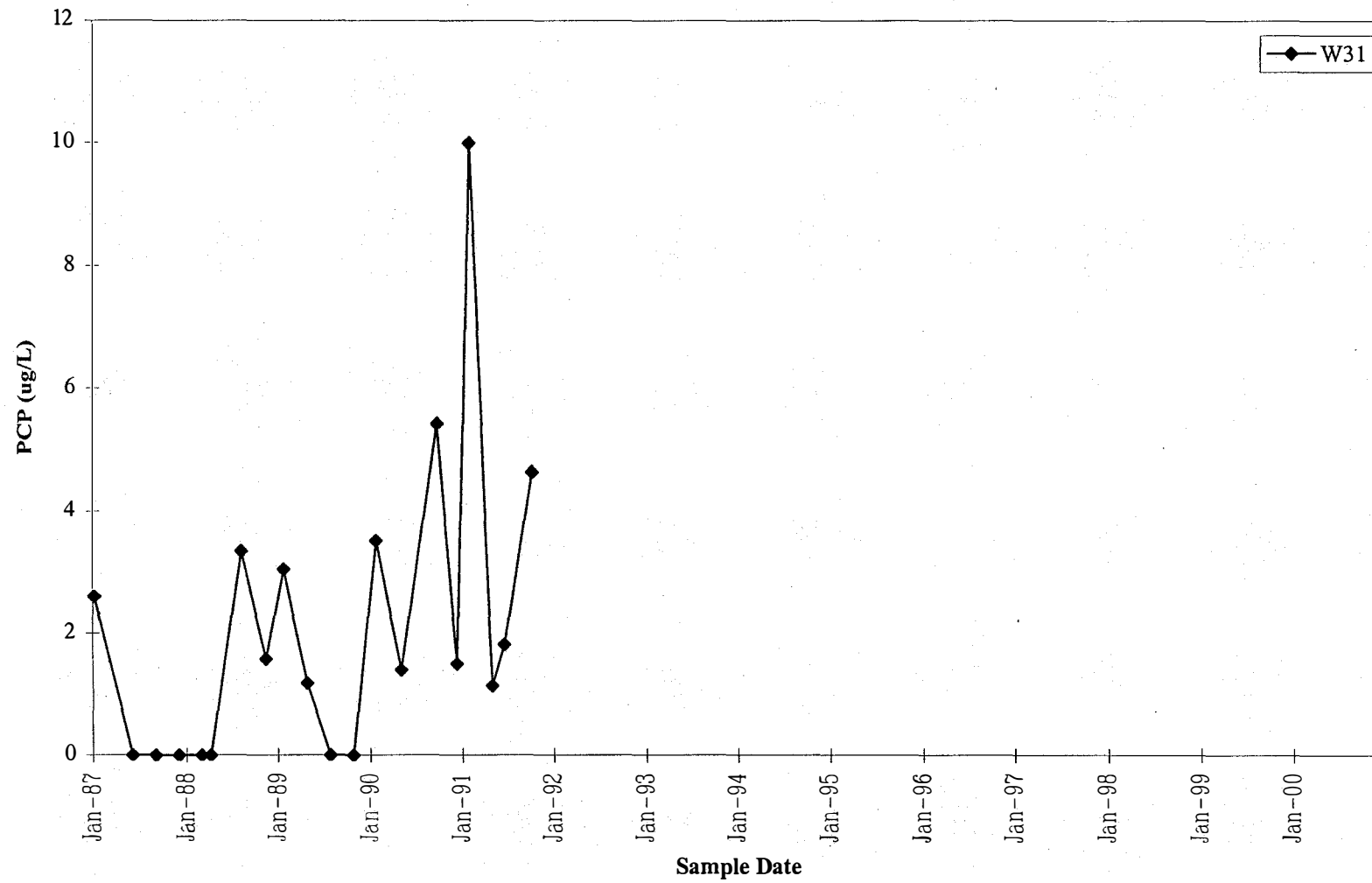
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



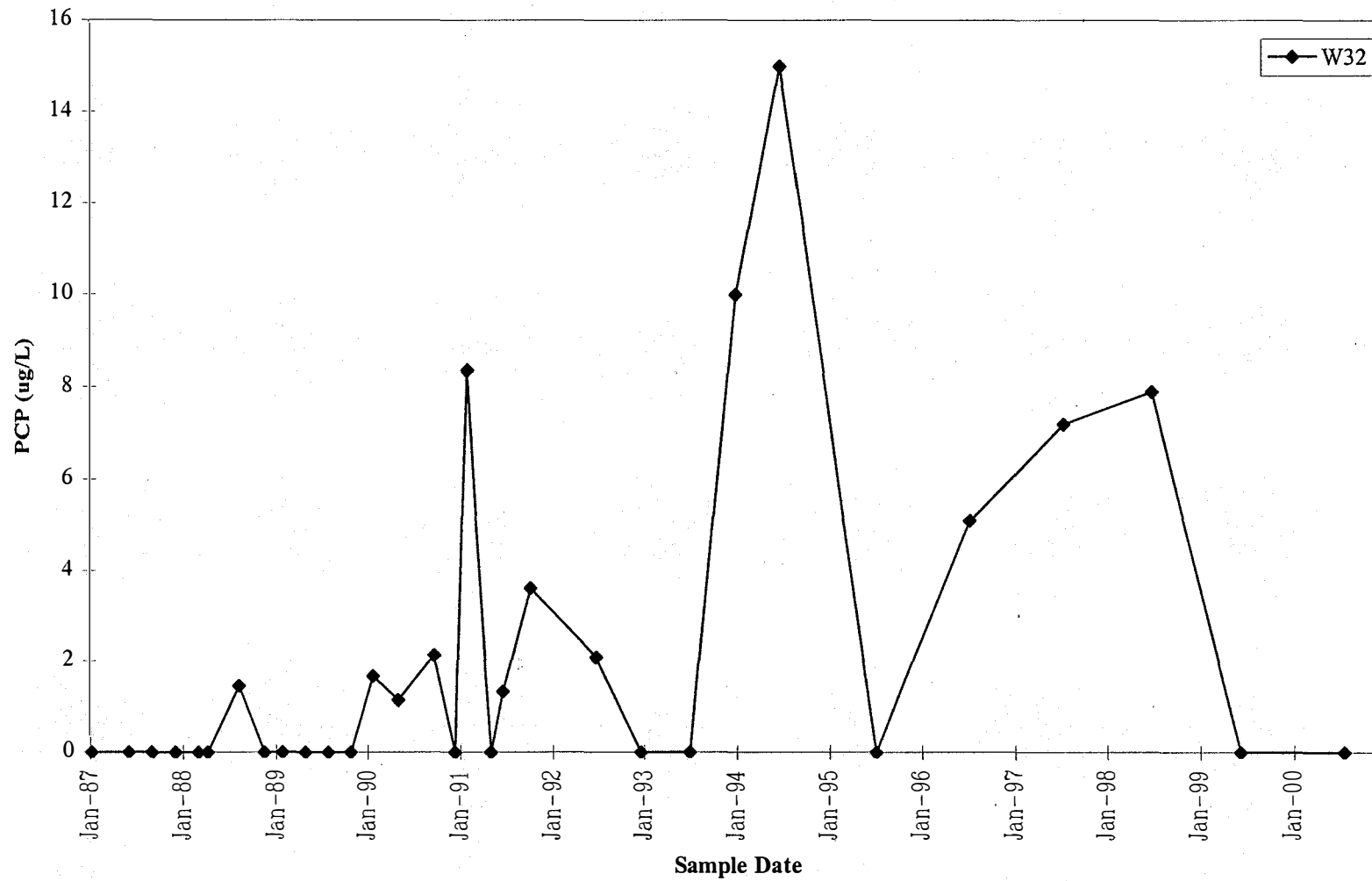
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



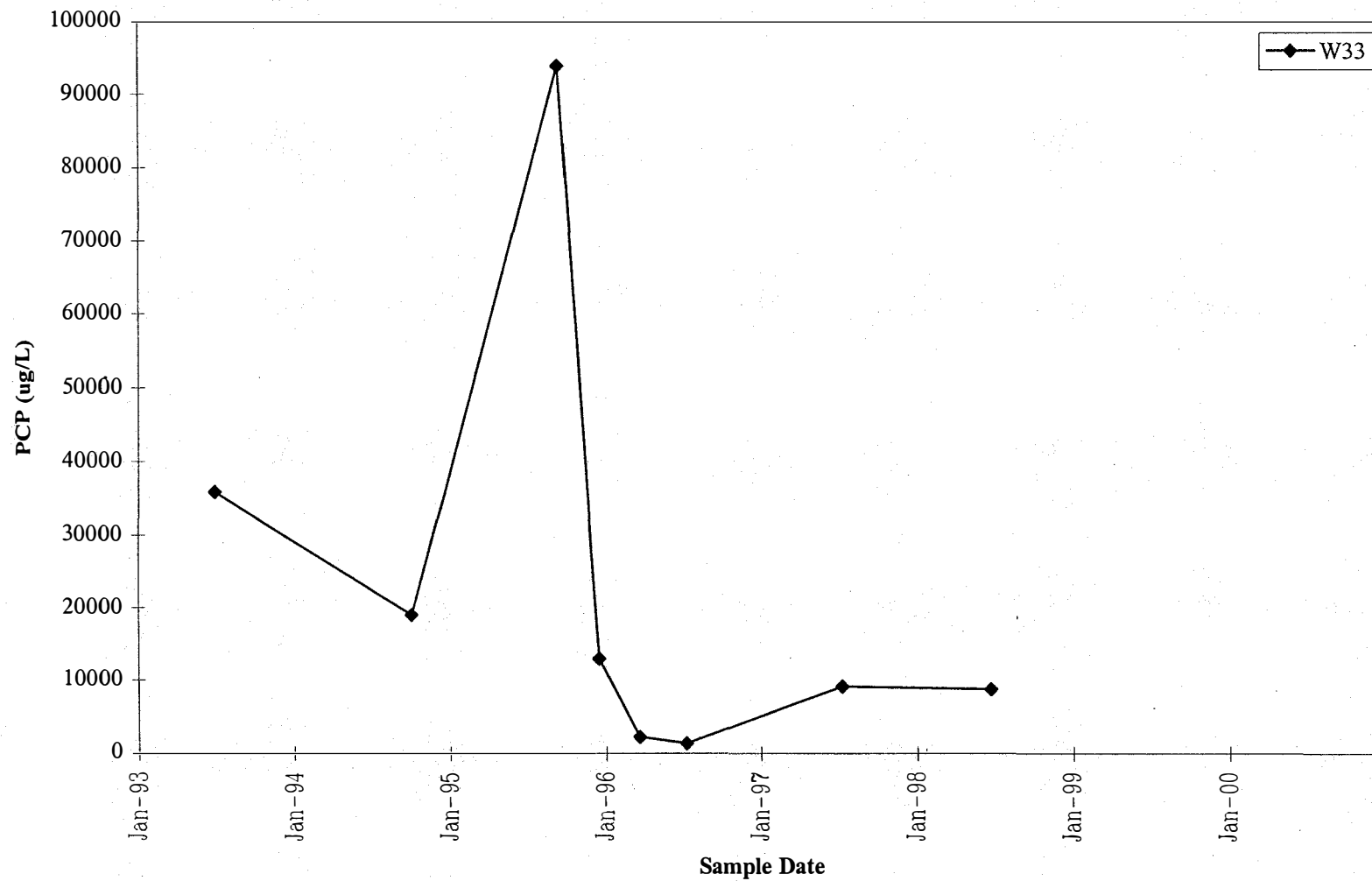
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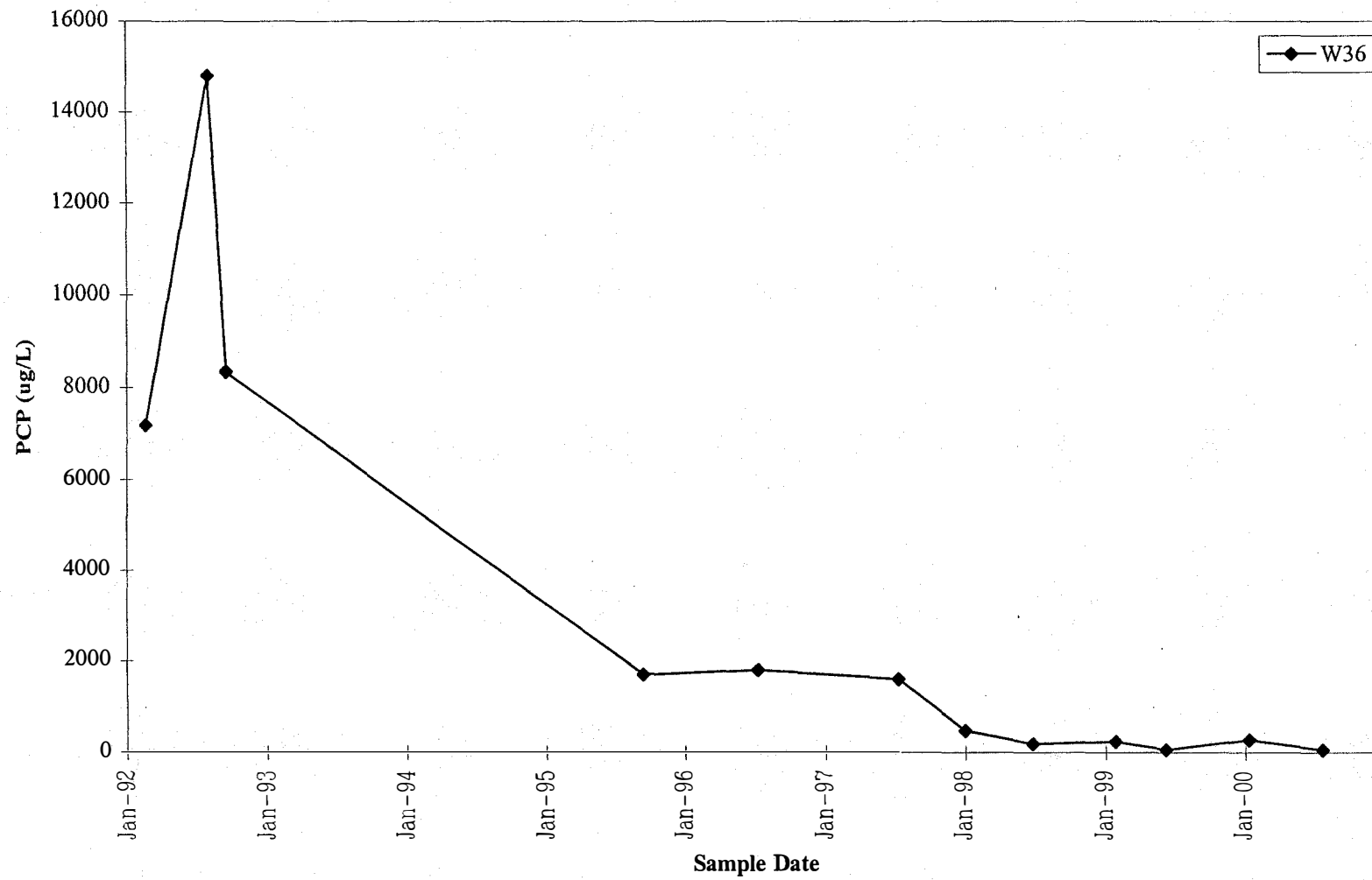
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



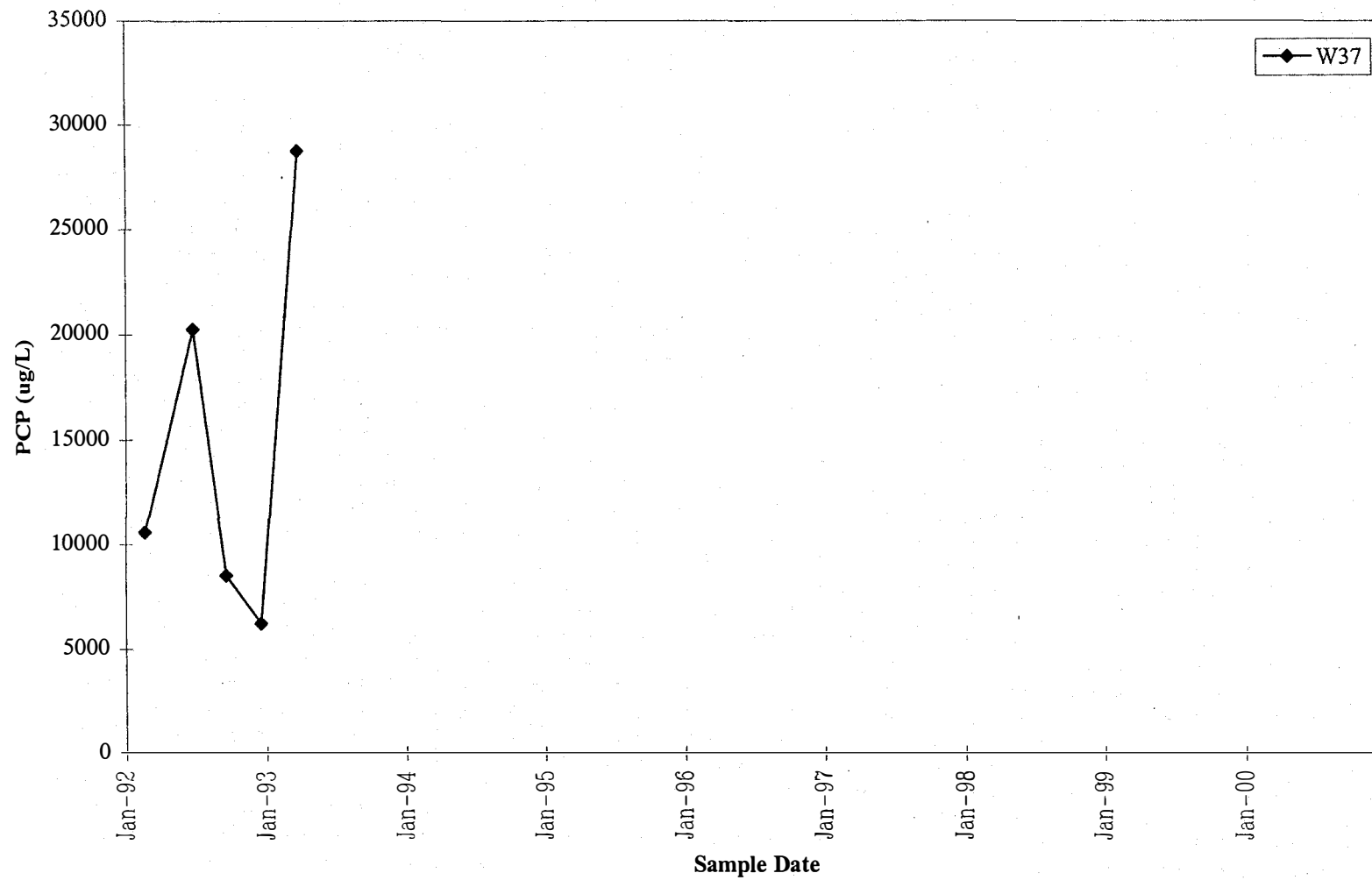
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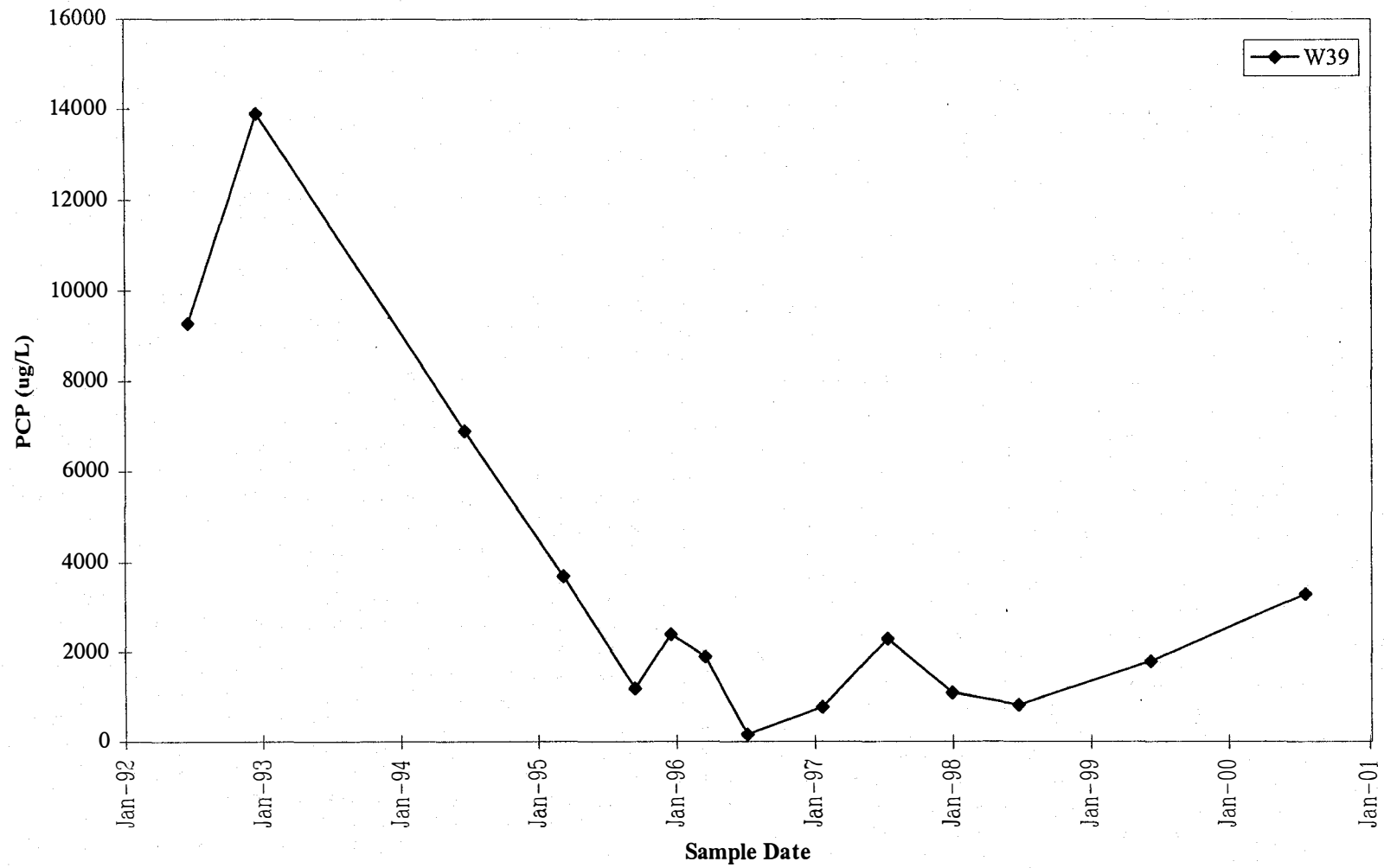
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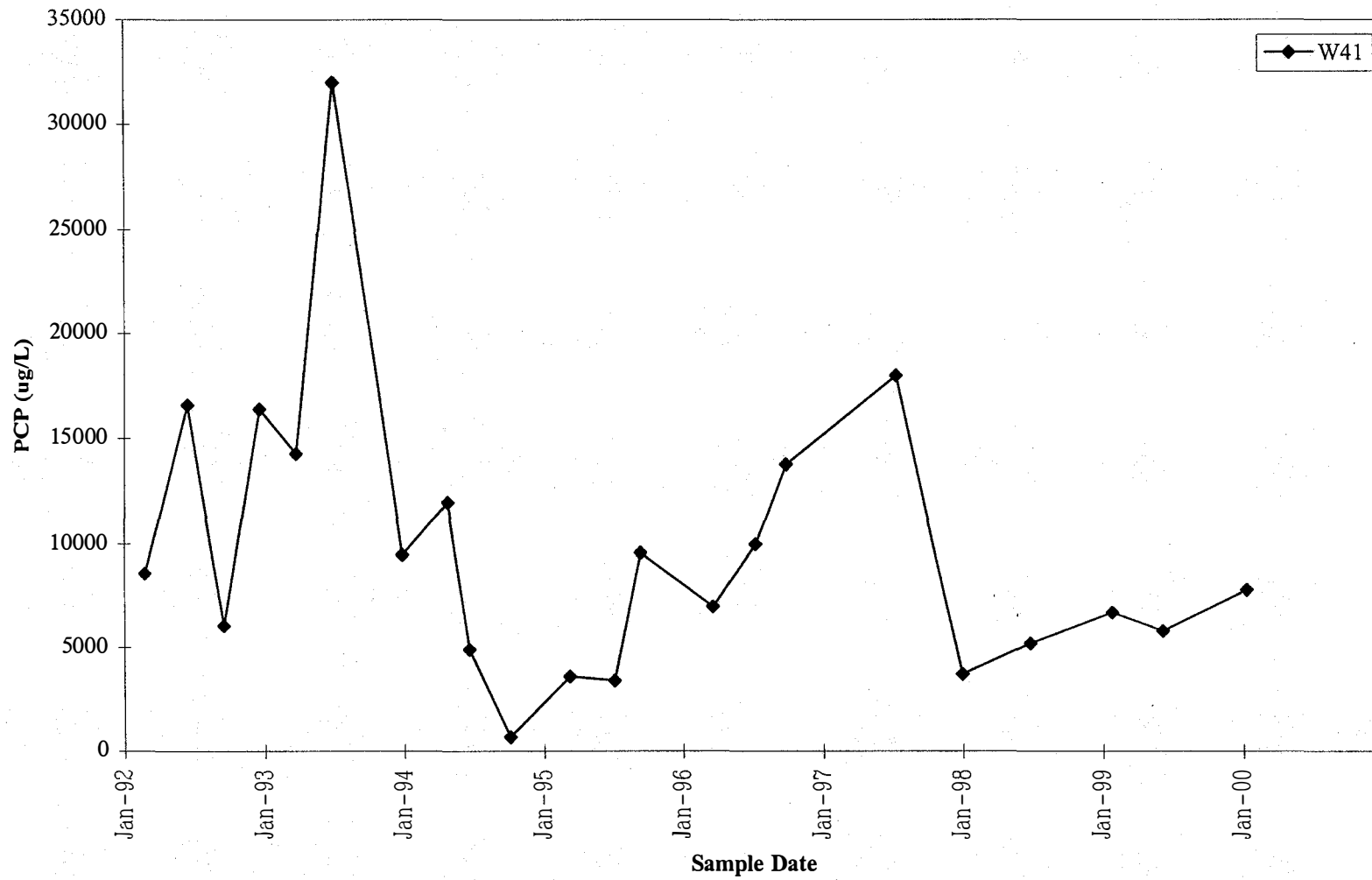
Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



Pentachlorophenol Concentrations Quarterly Groundwater Monitoring



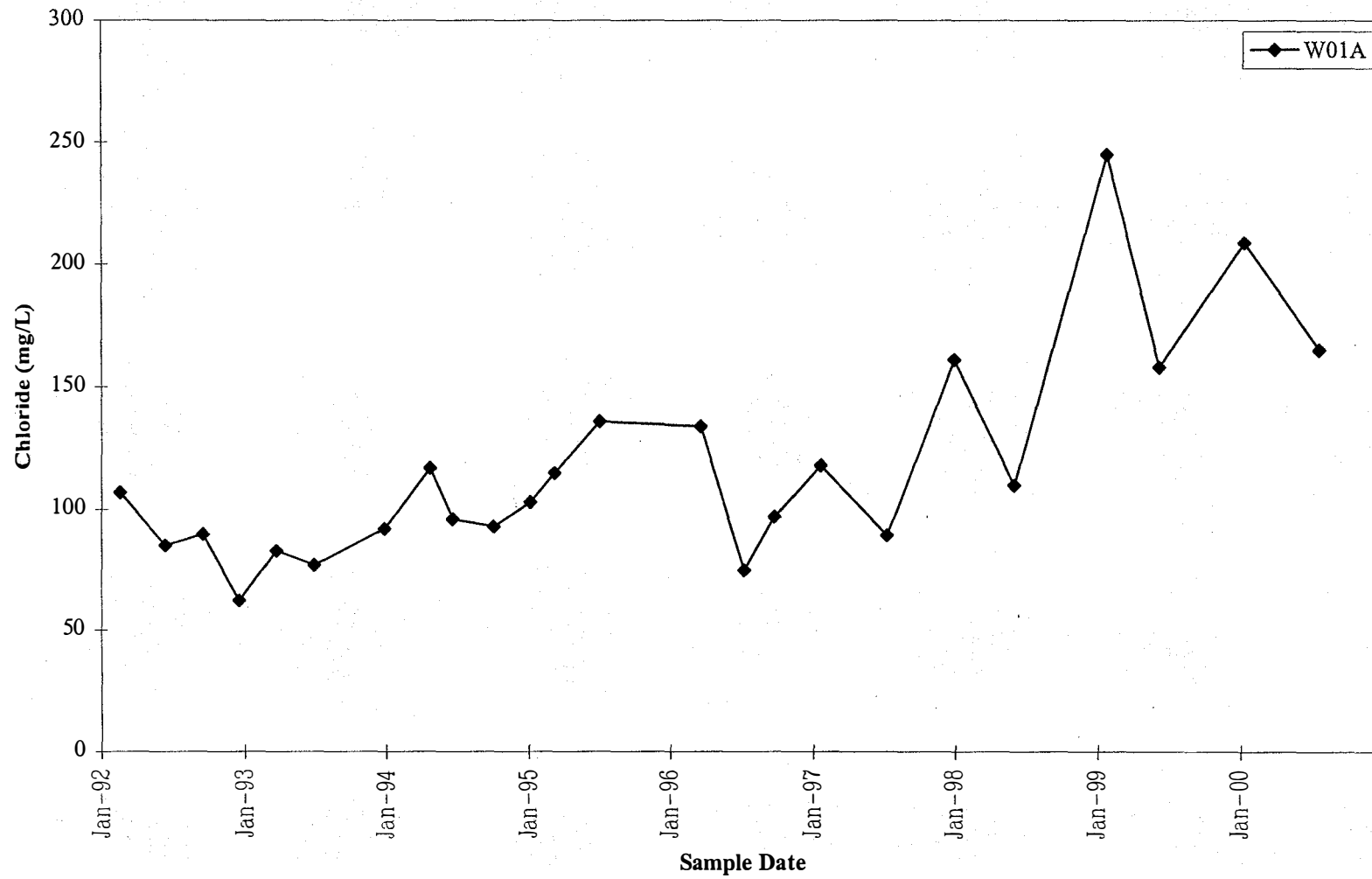
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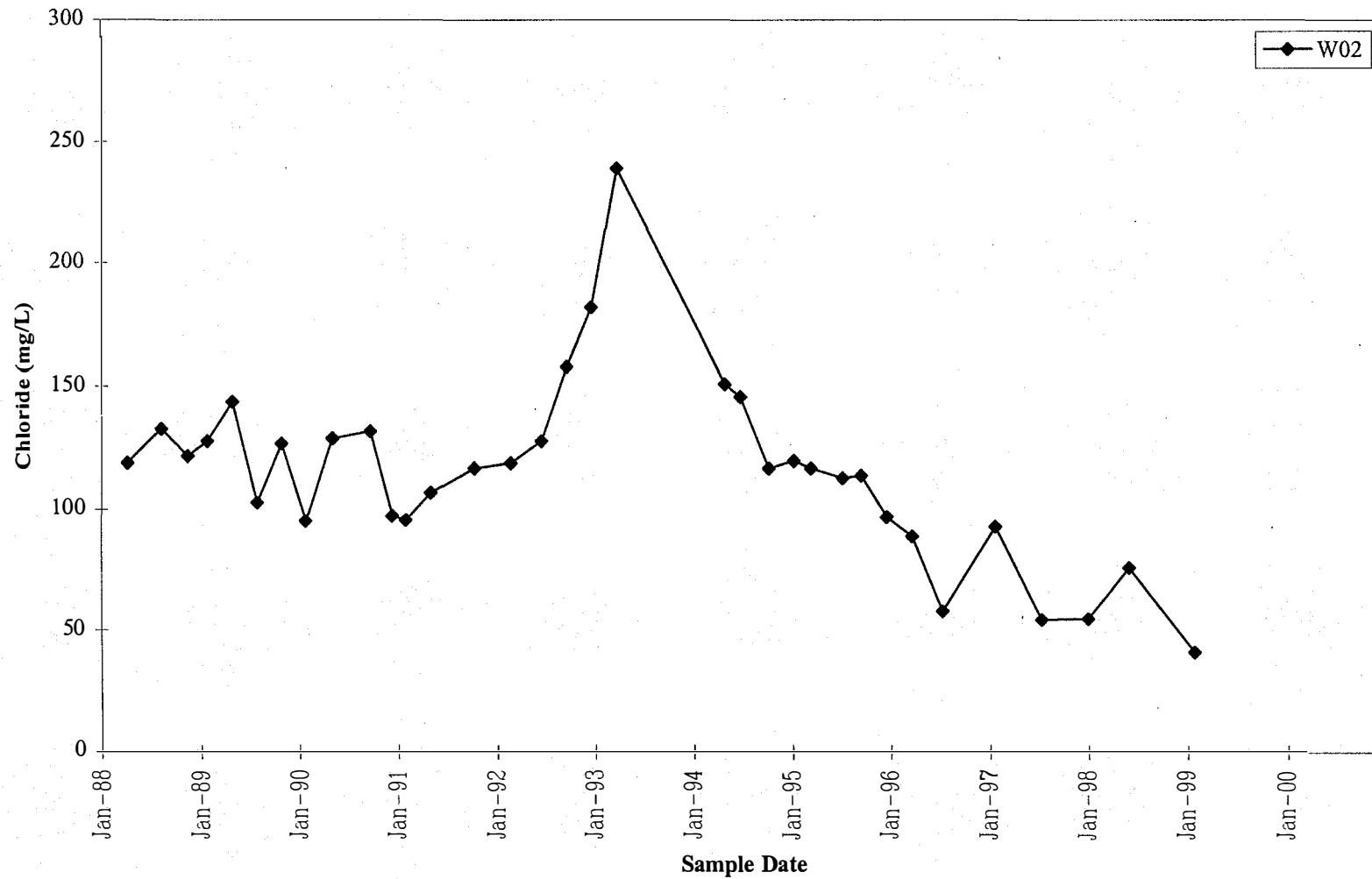
B2

Chloride Concentrations

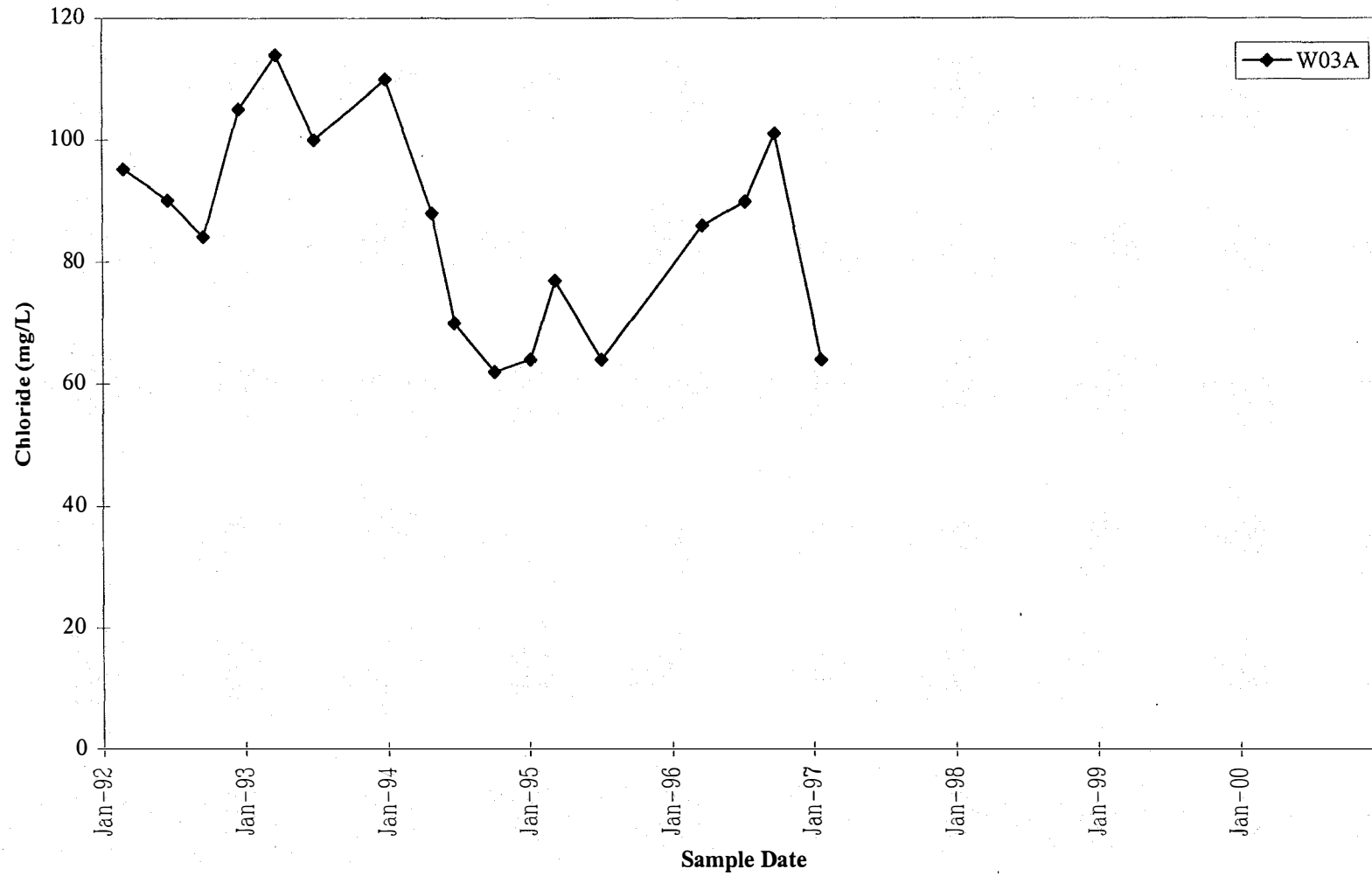
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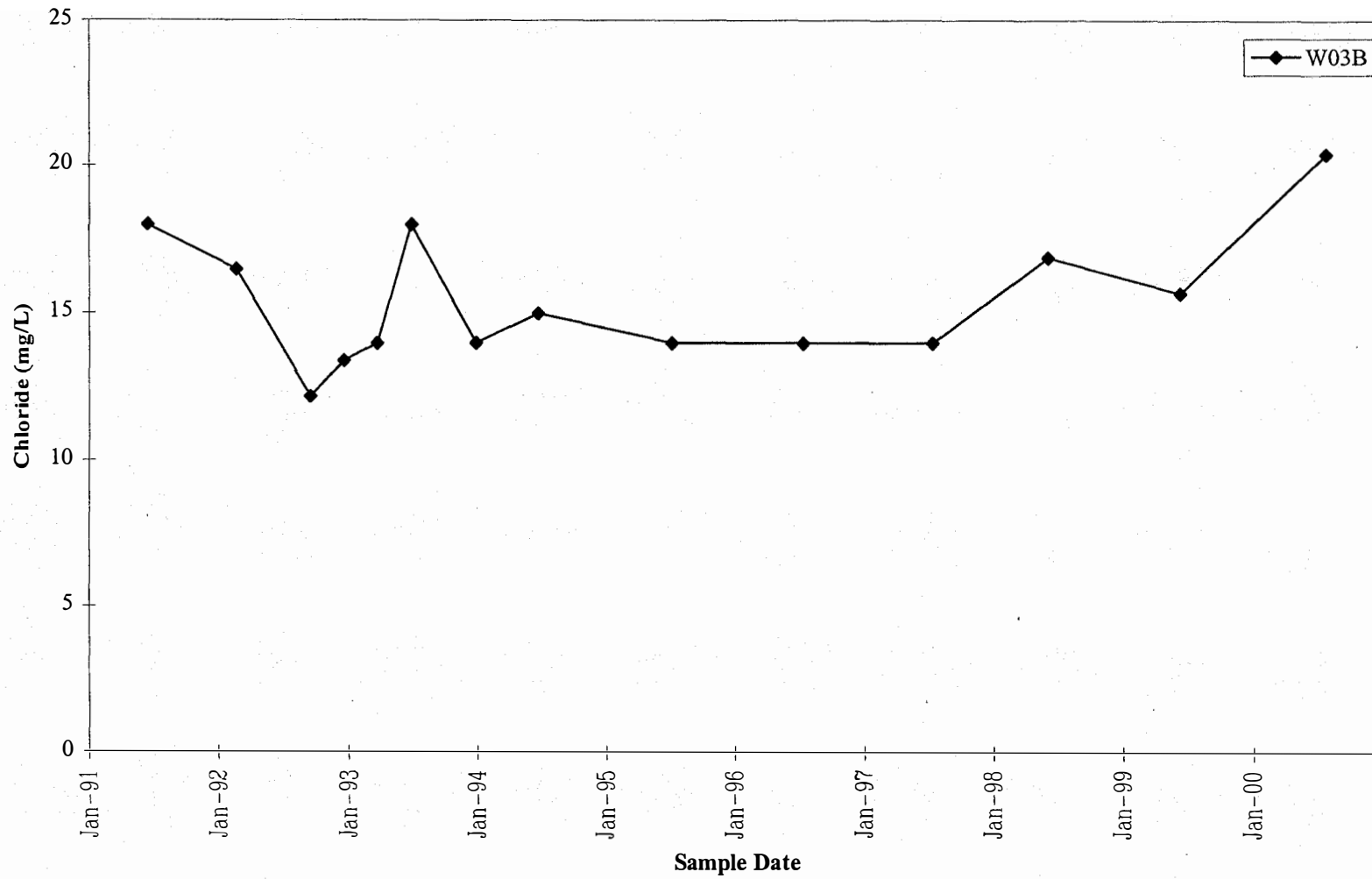
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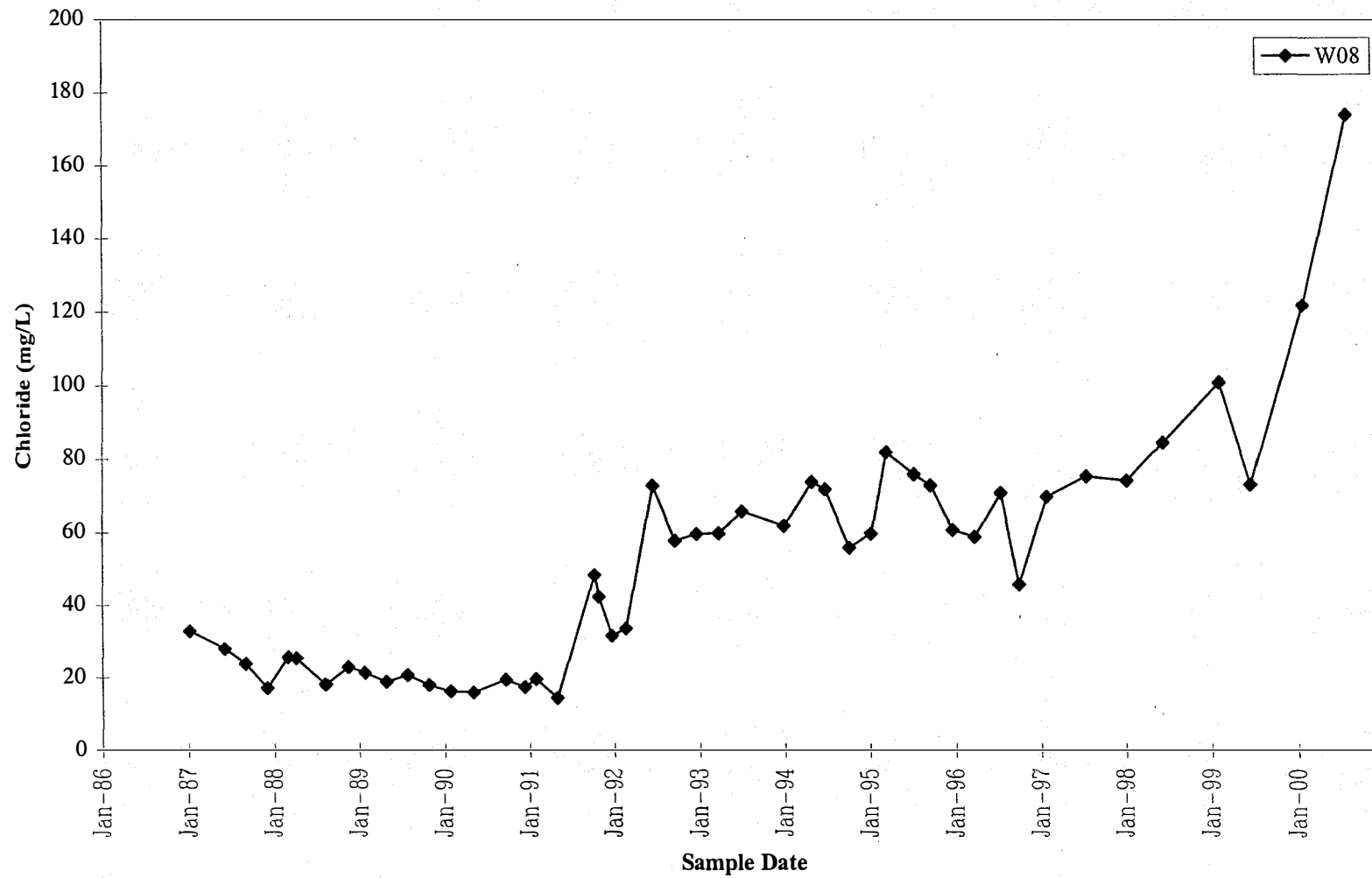
Chloride Concentrations Quarterly Groundwater Monitoring



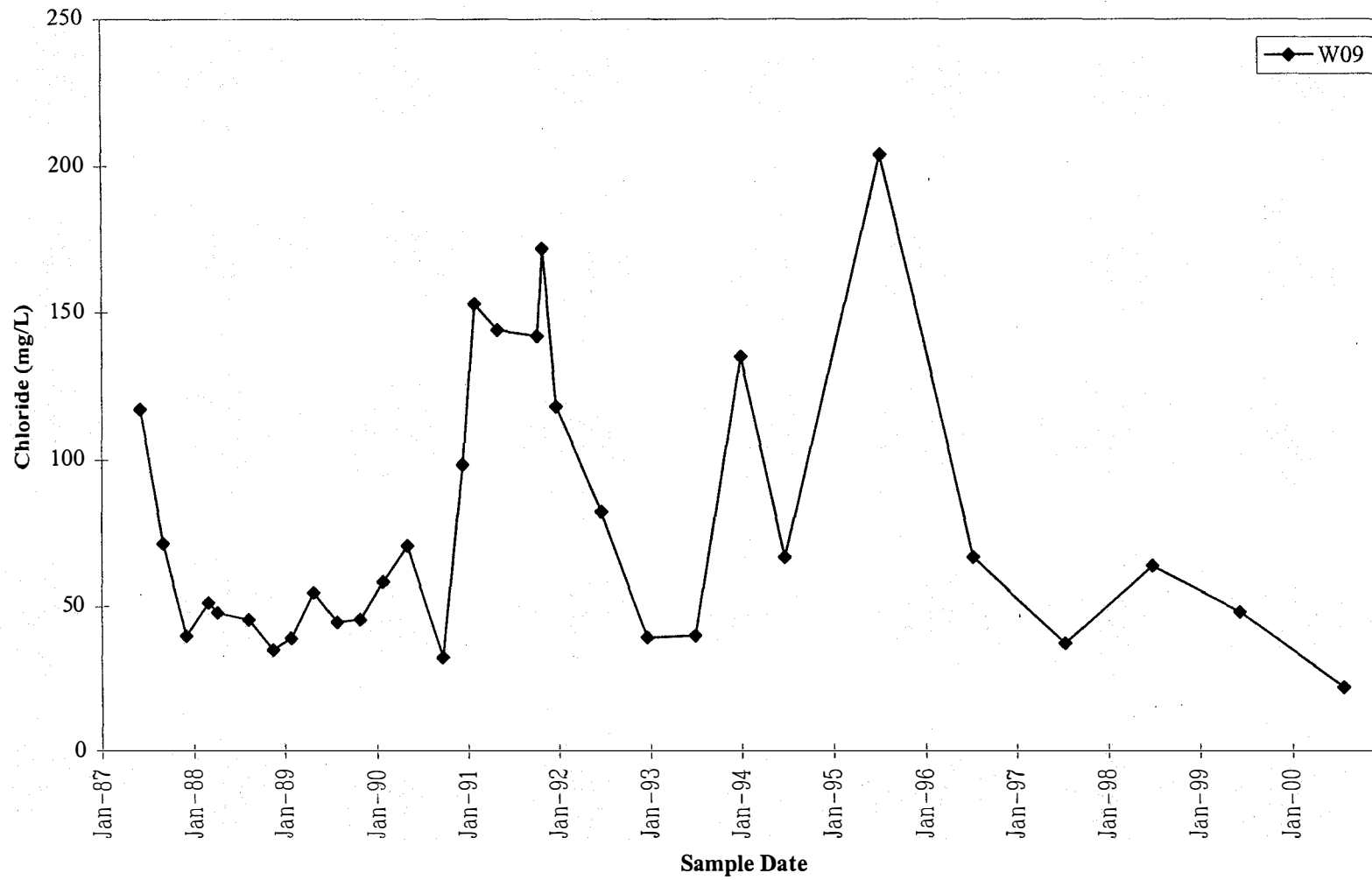
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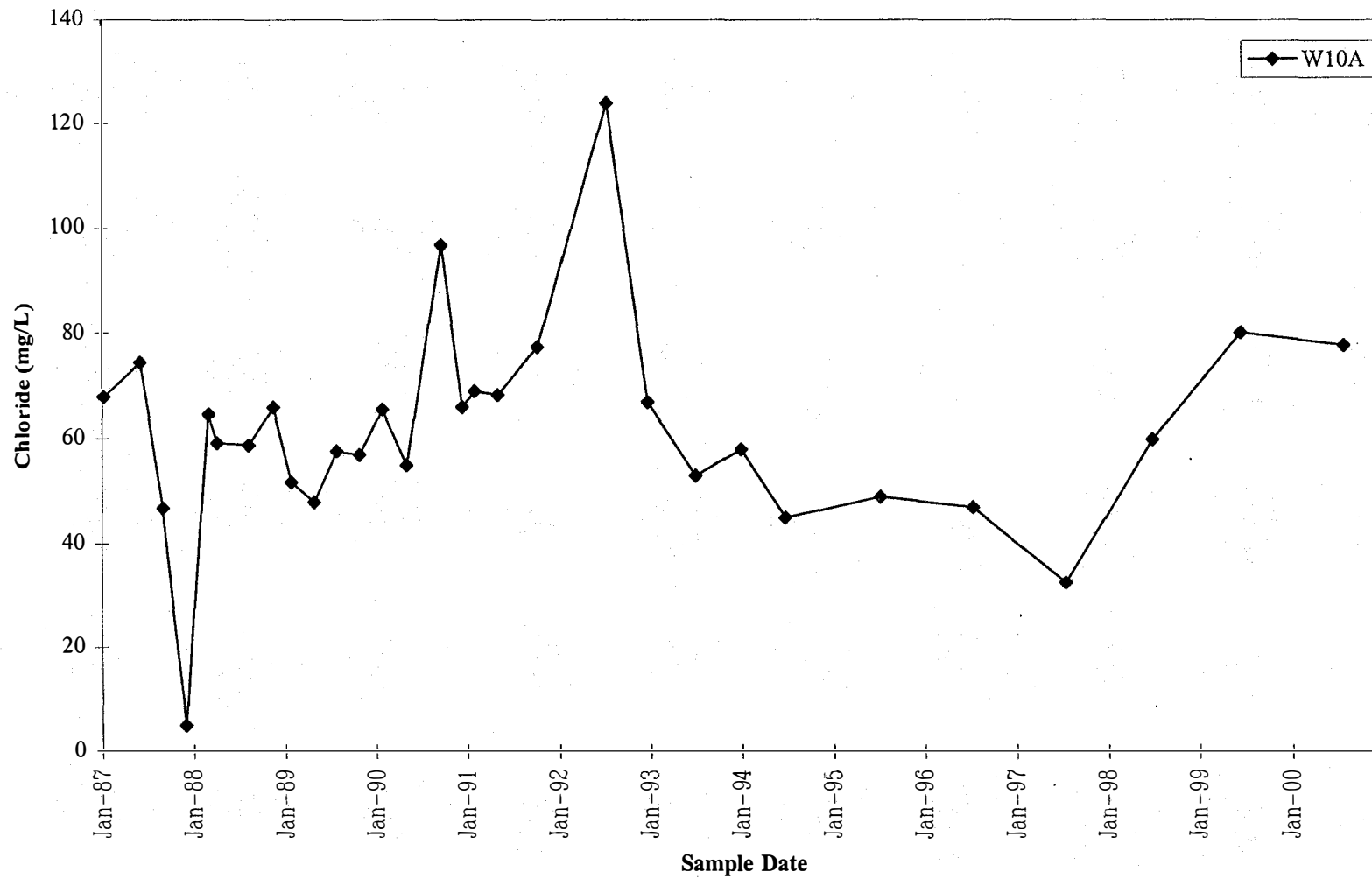
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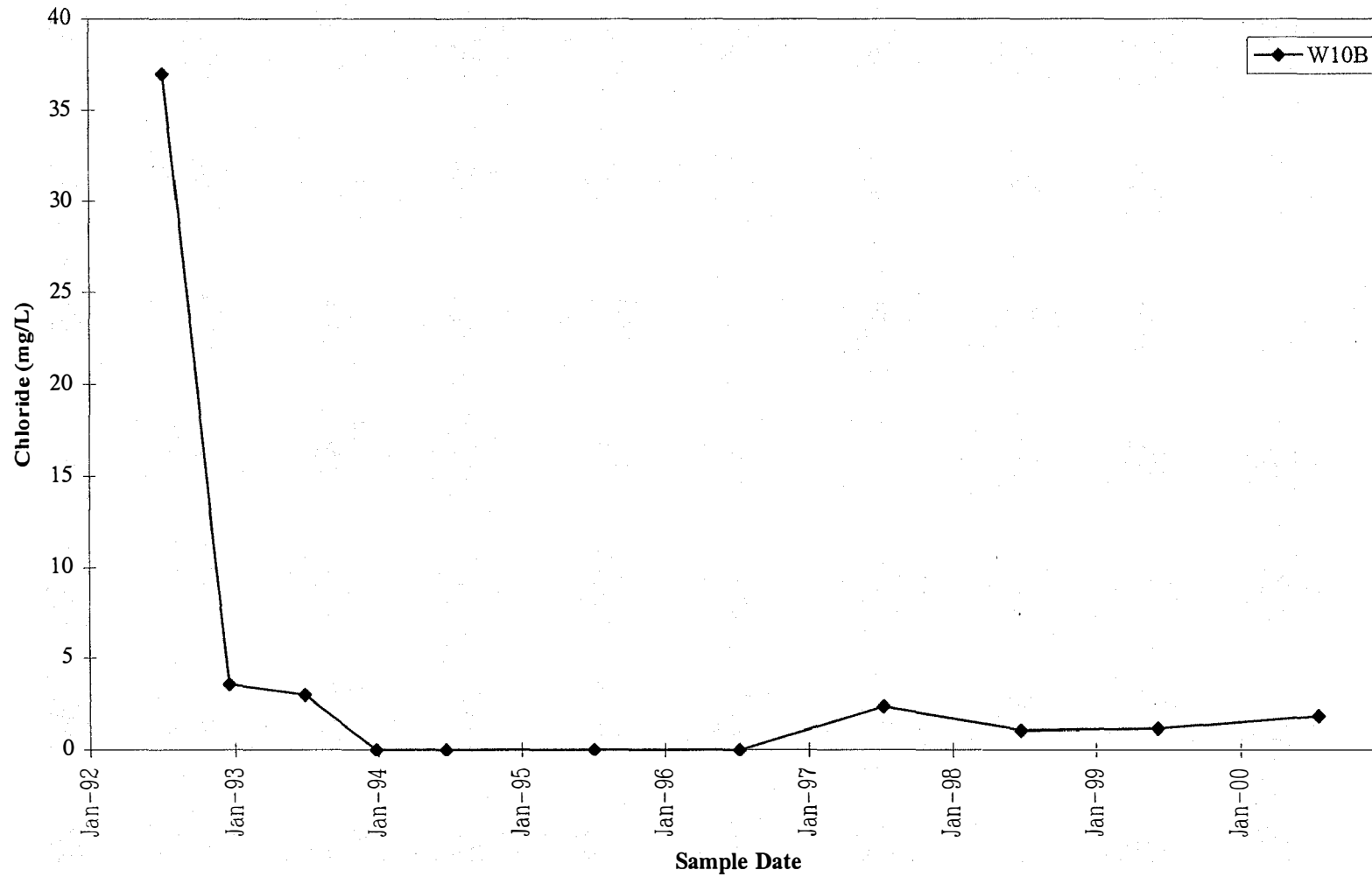
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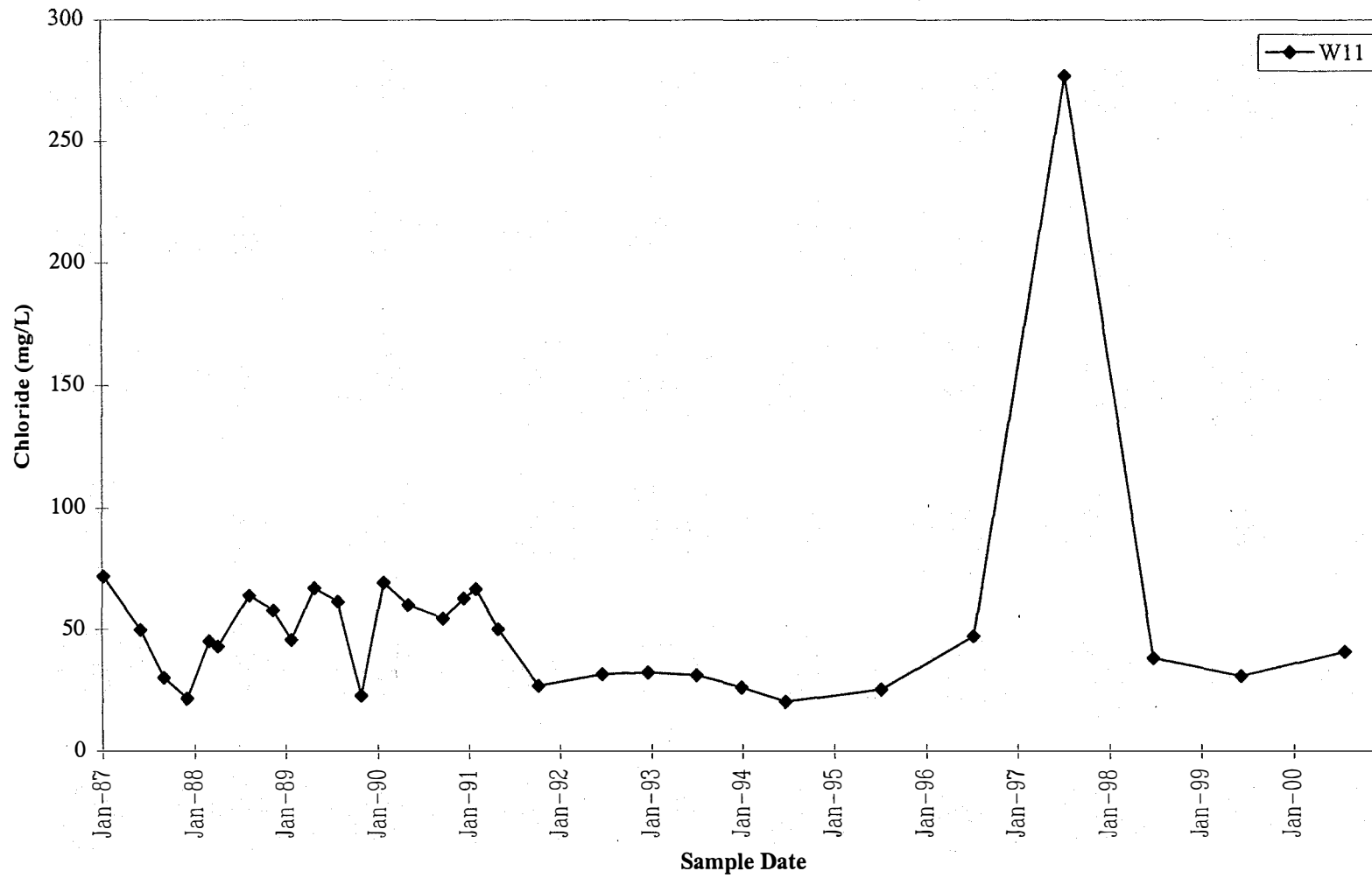
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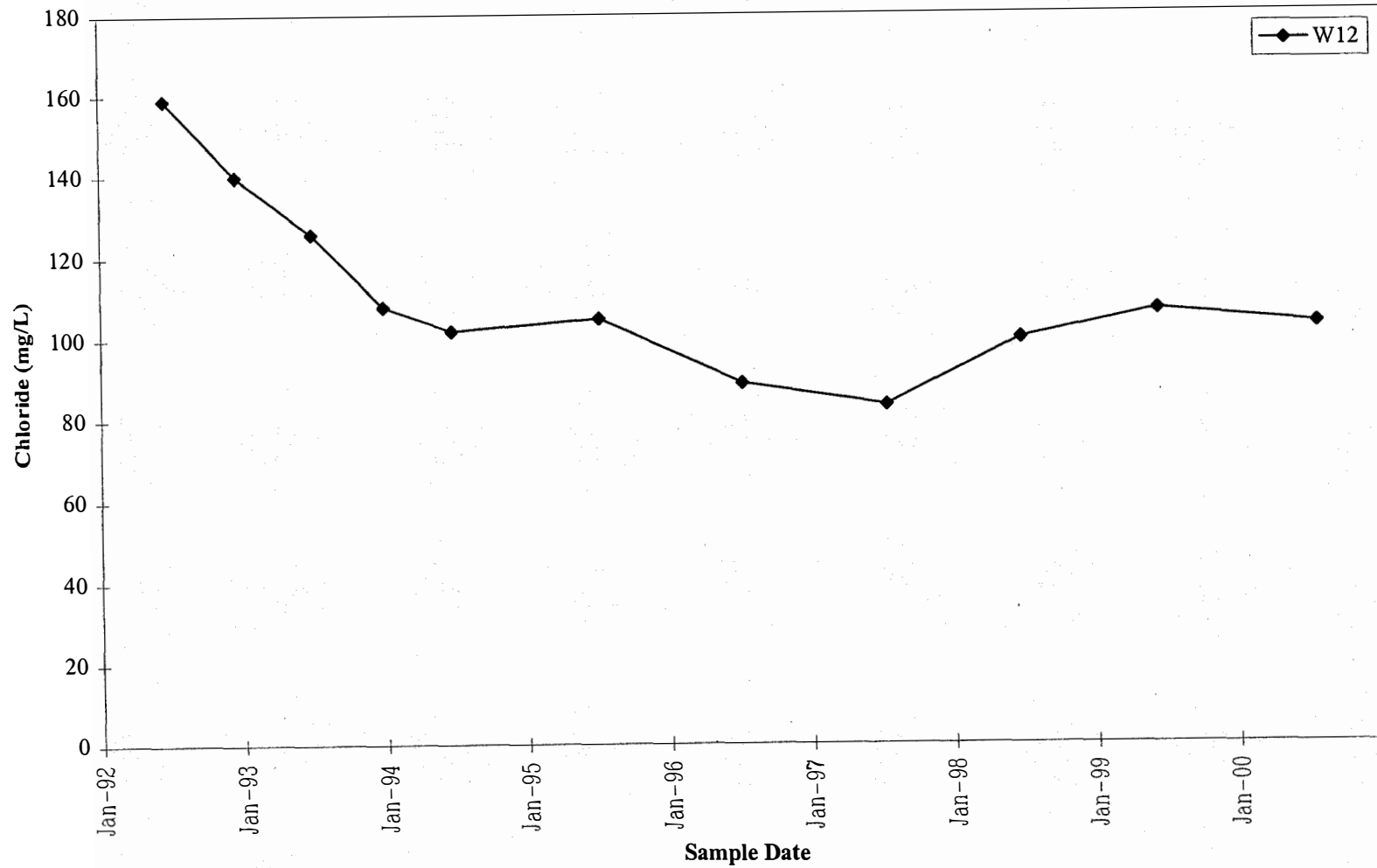
Chloride Concentrations Quarterly Groundwater Monitoring



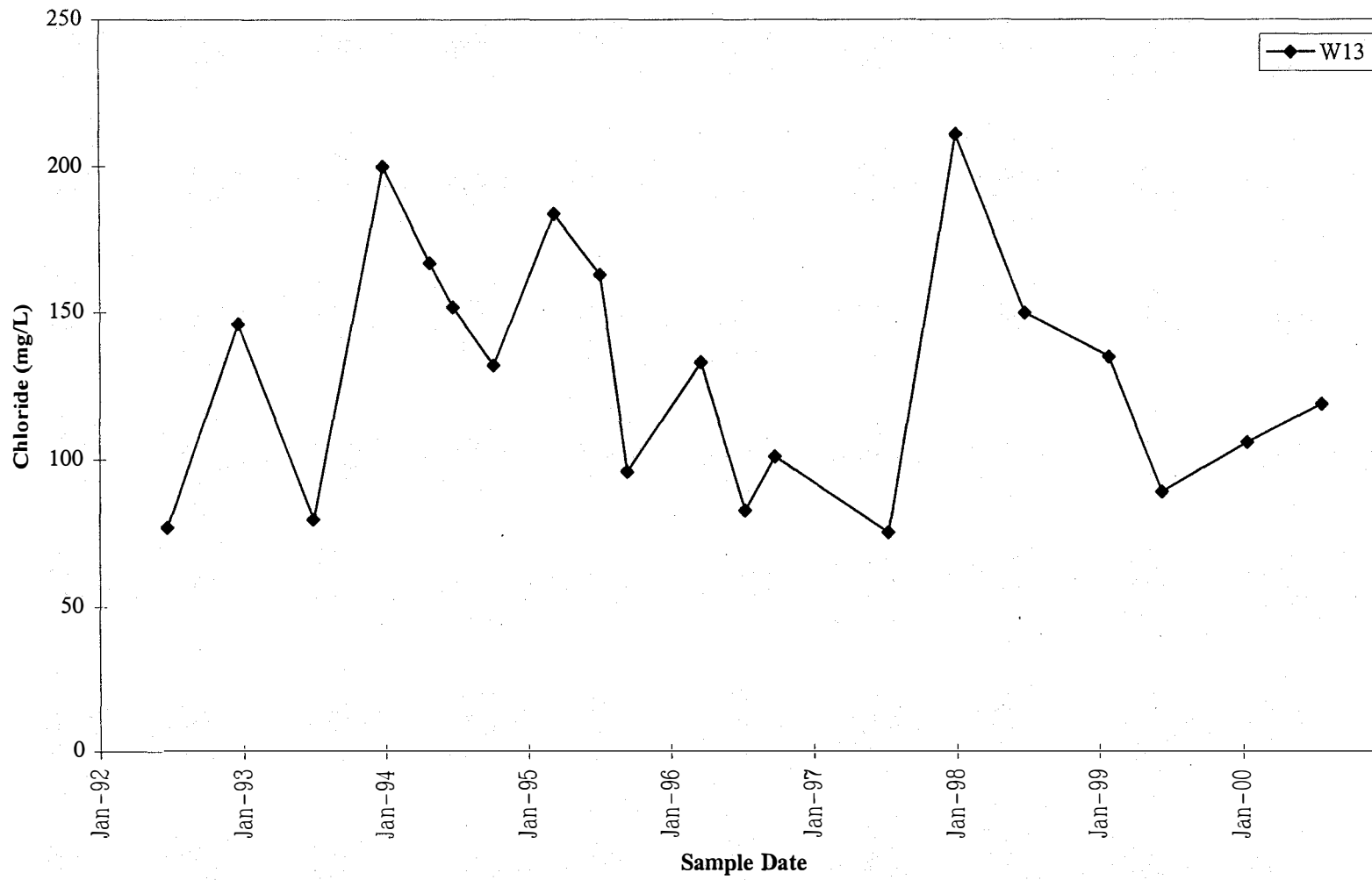
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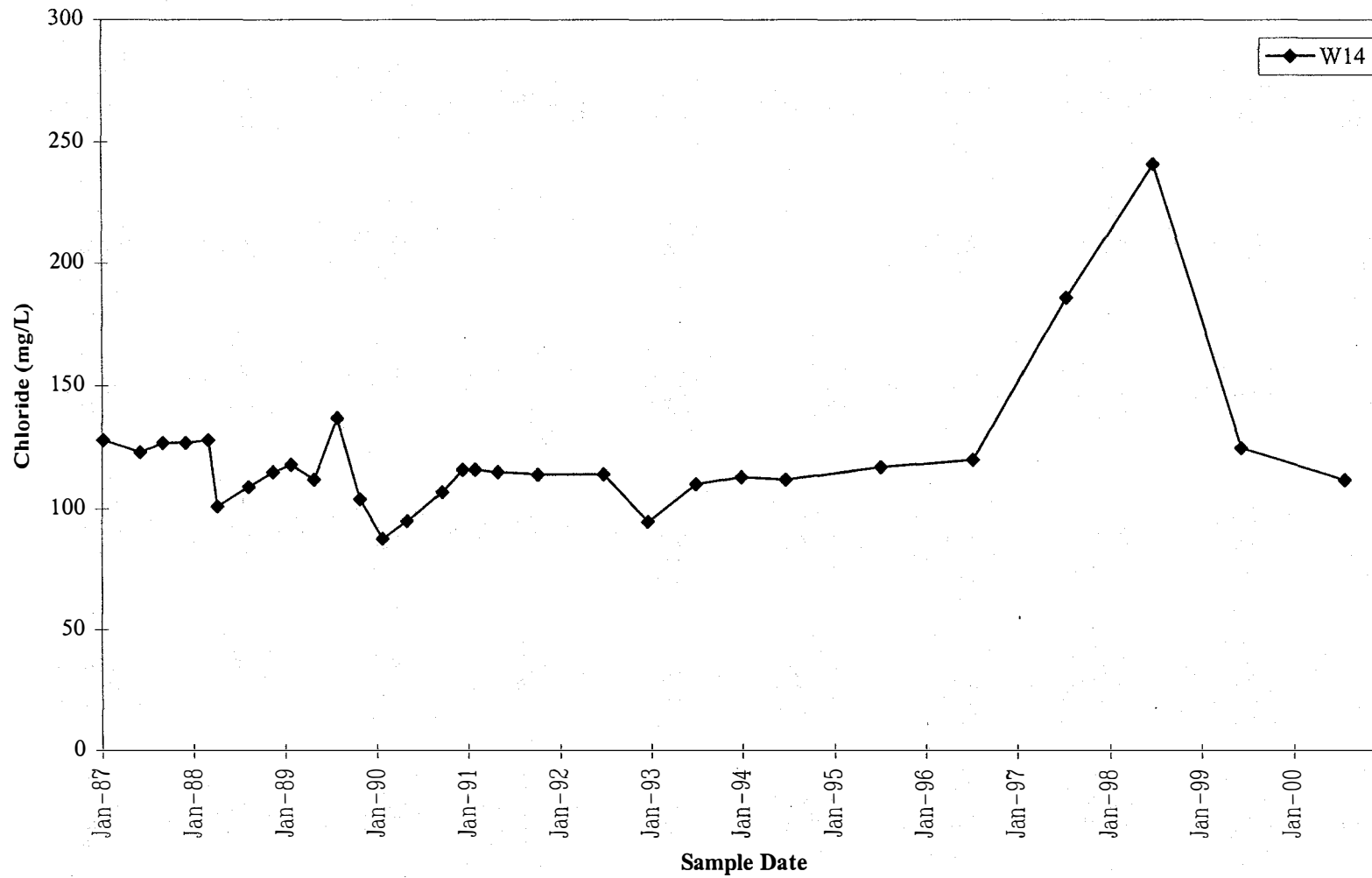
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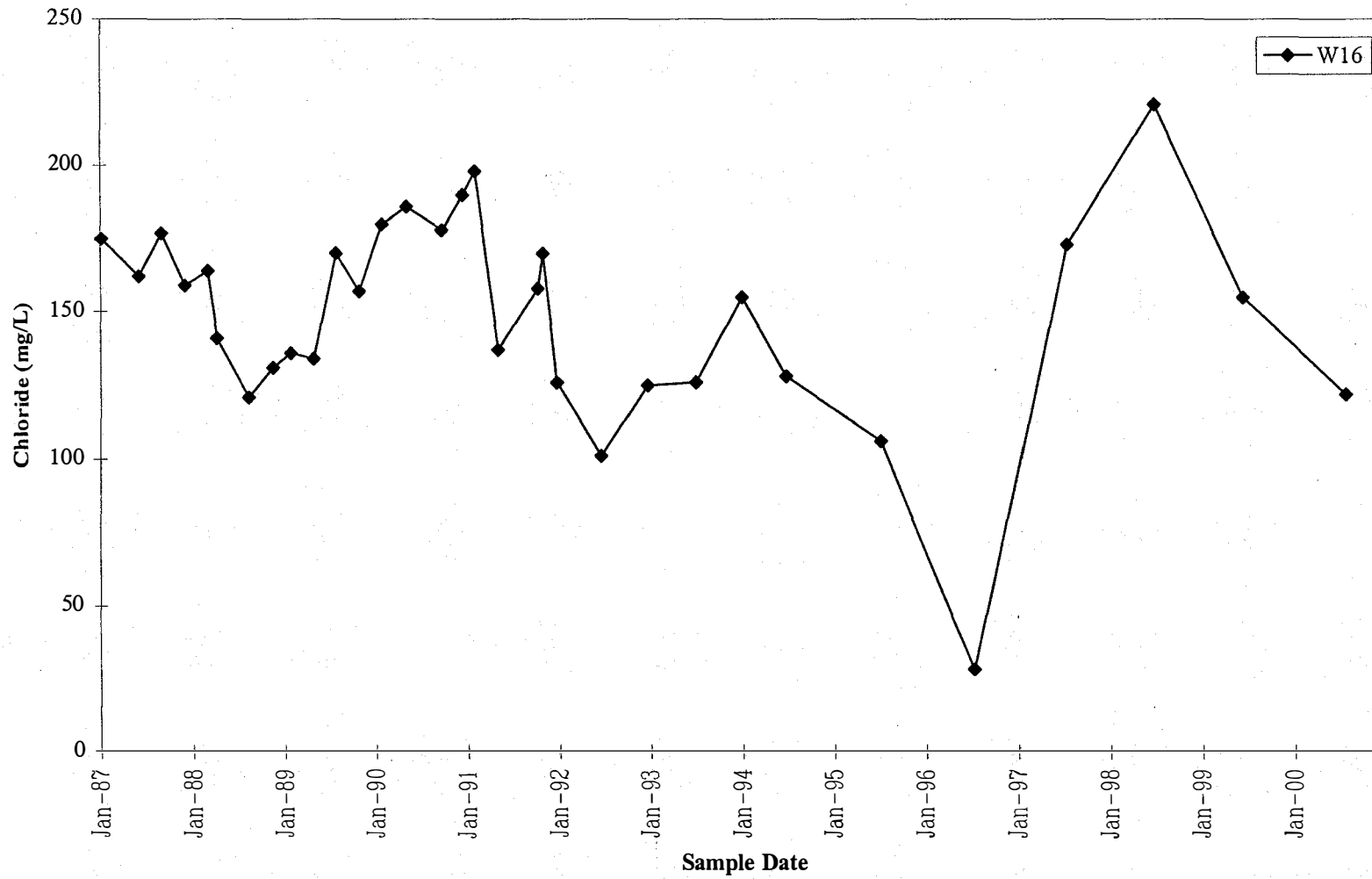
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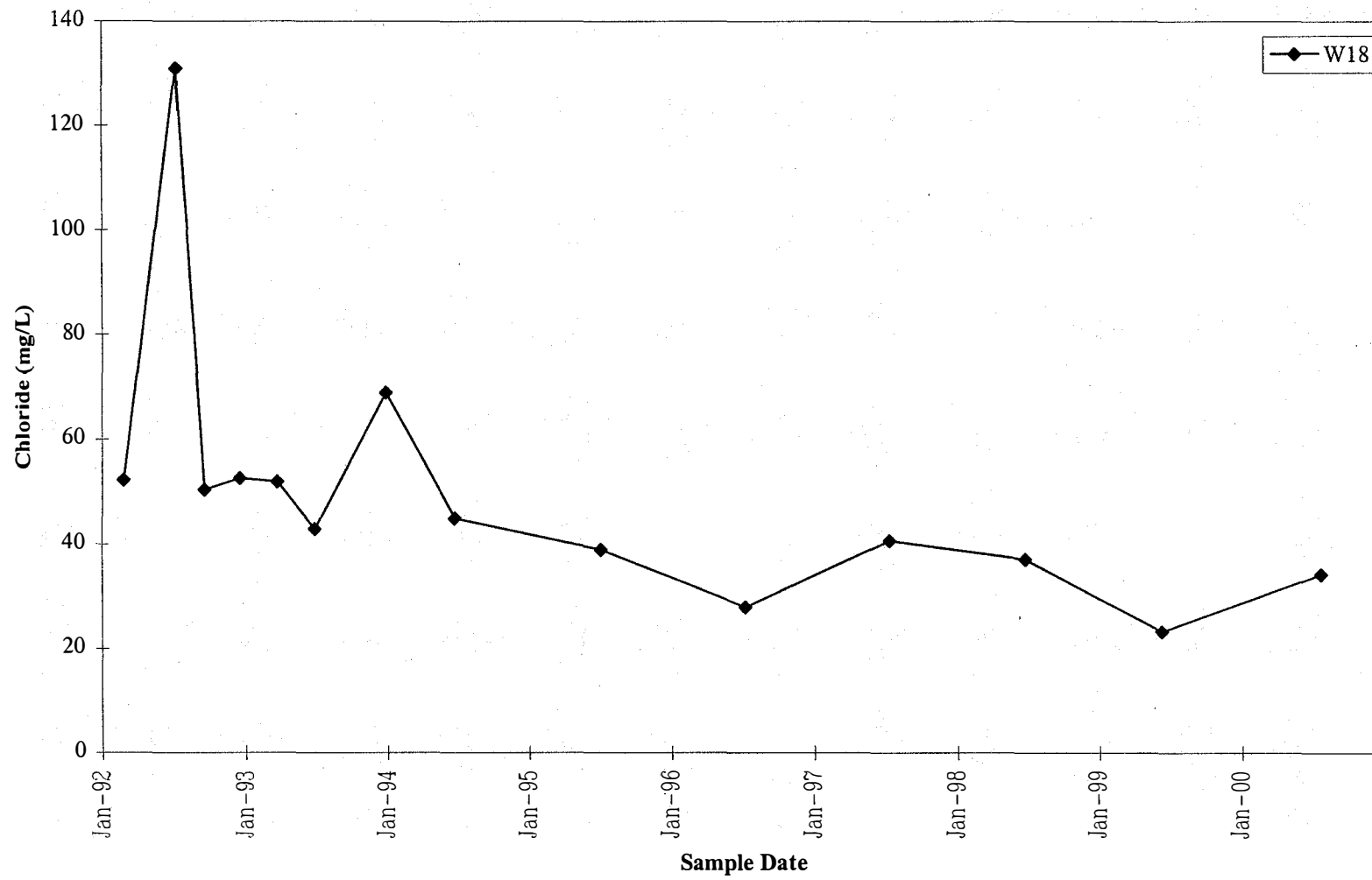
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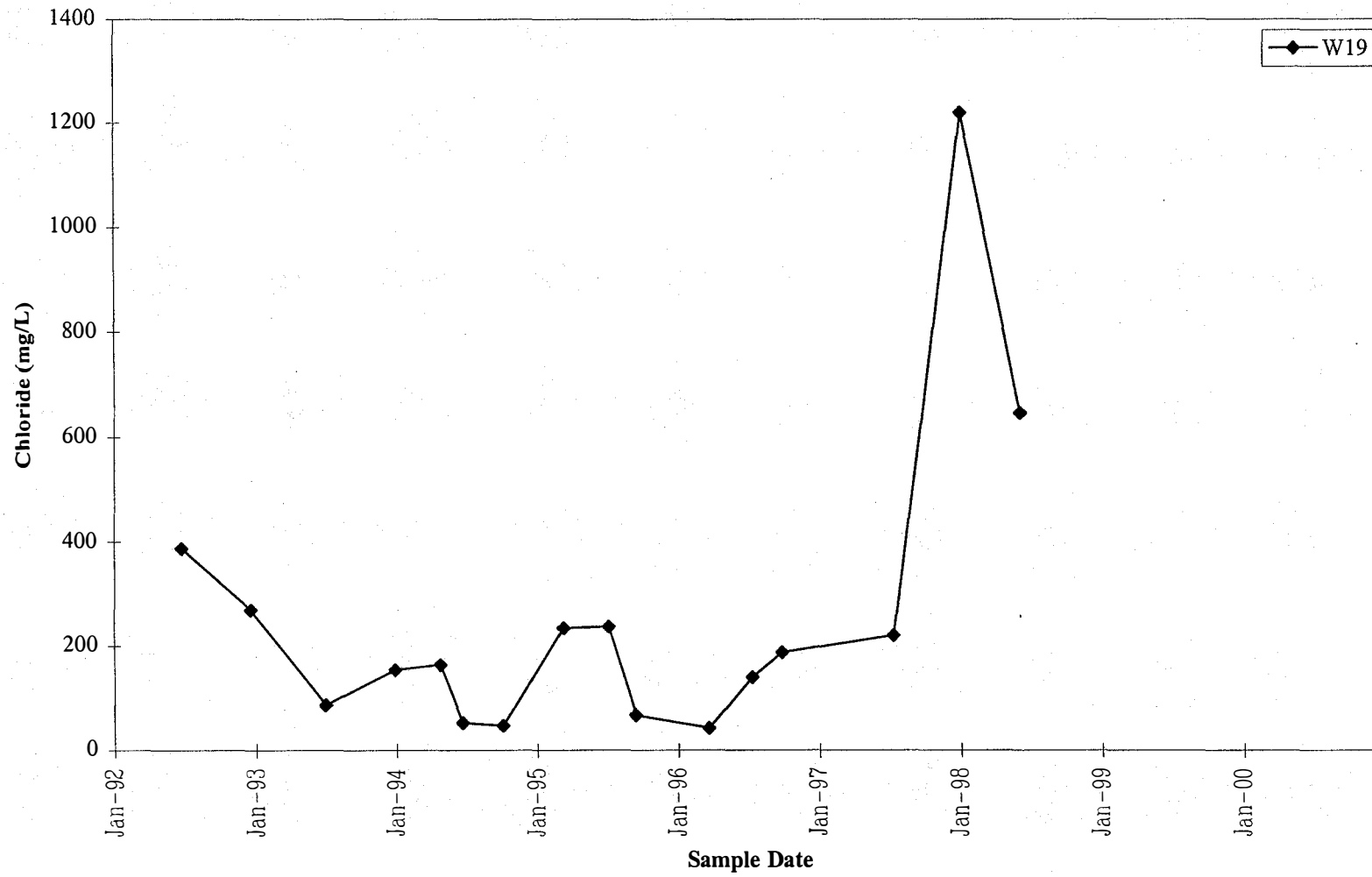
Chloride Concentrations Quarterly Groundwater Monitoring



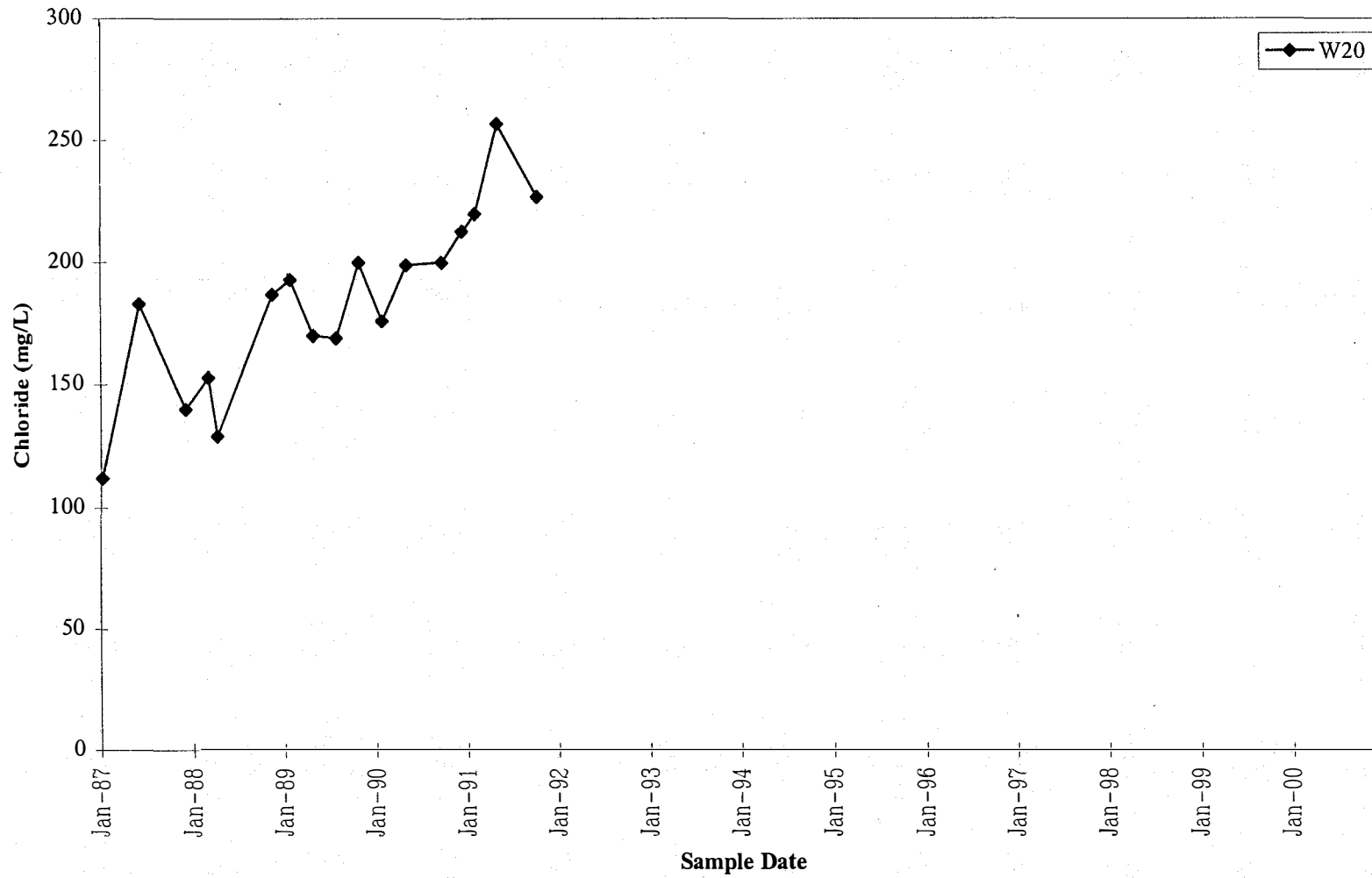
Chloride Concentrations Quarterly Groundwater Monitoring



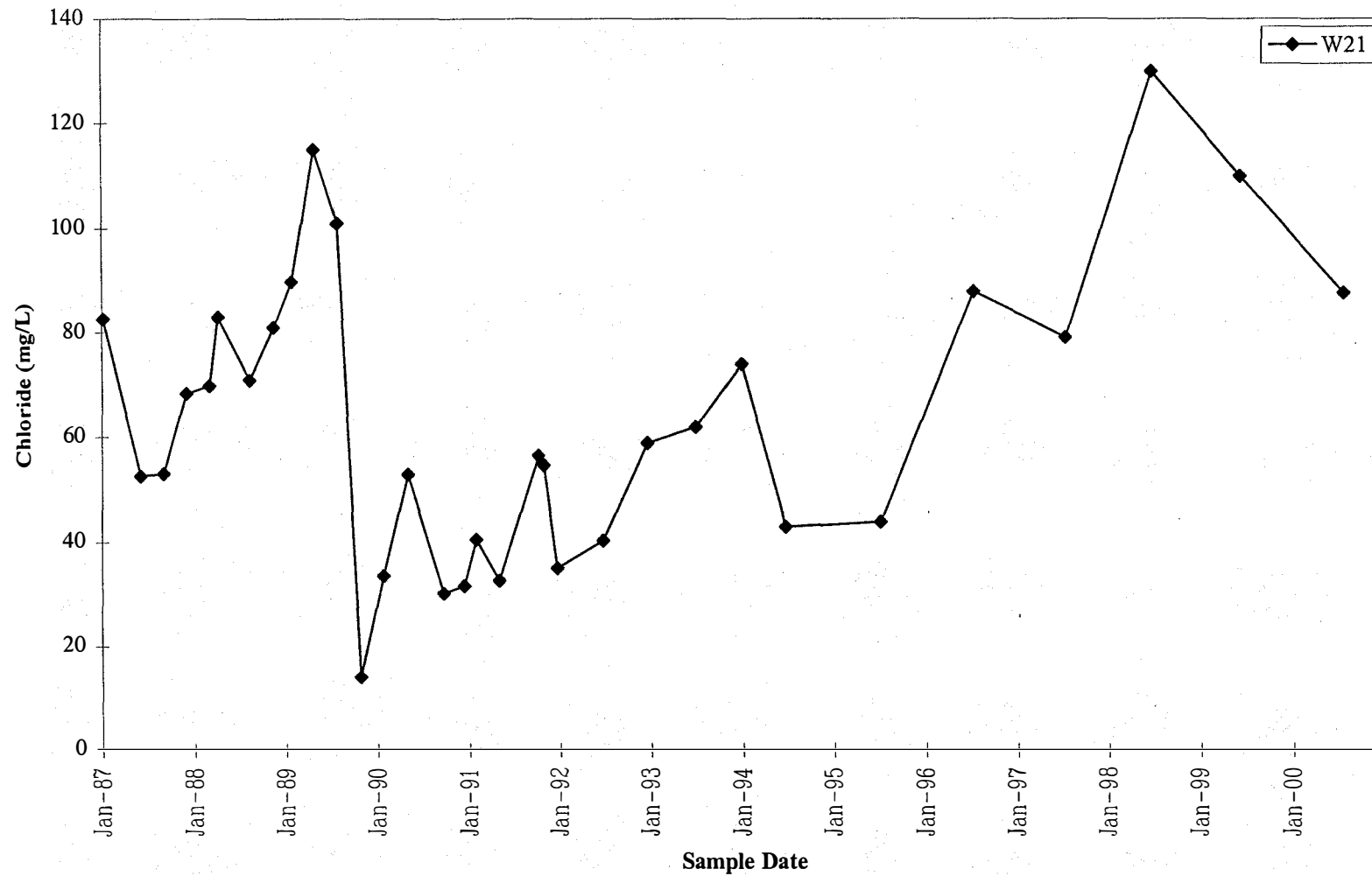
Chloride Concentrations Quarterly Groundwater Monitoring



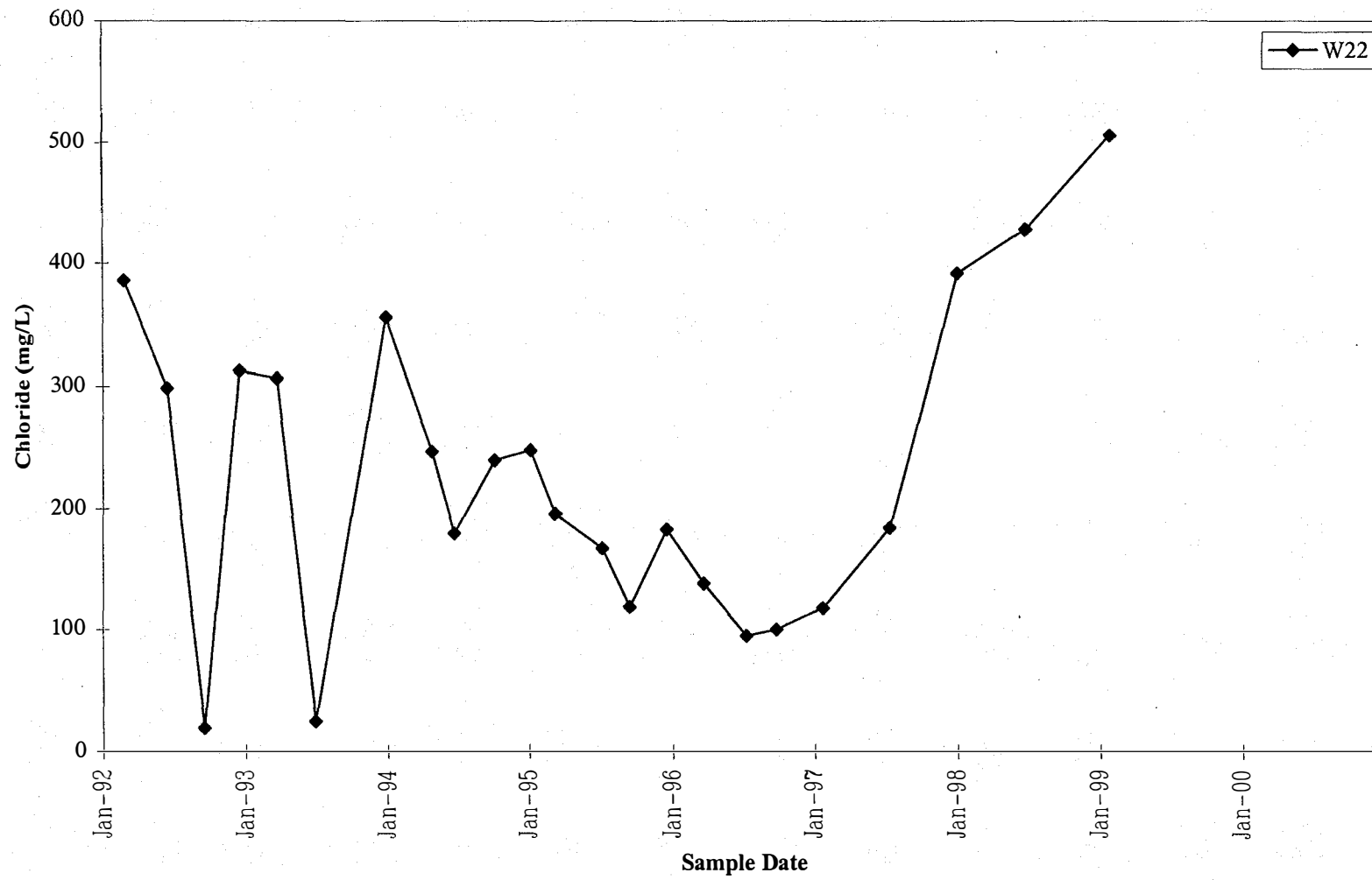
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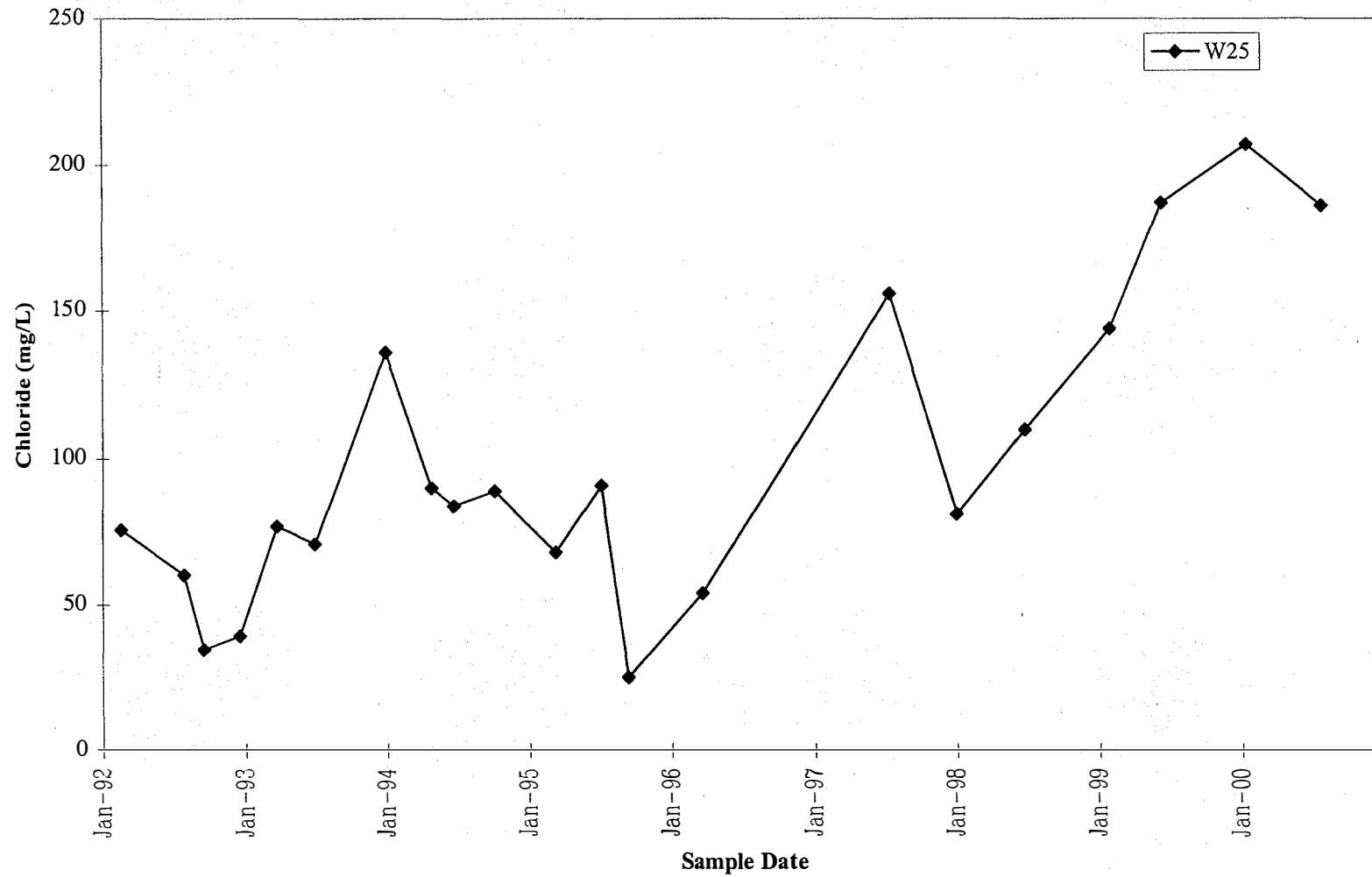
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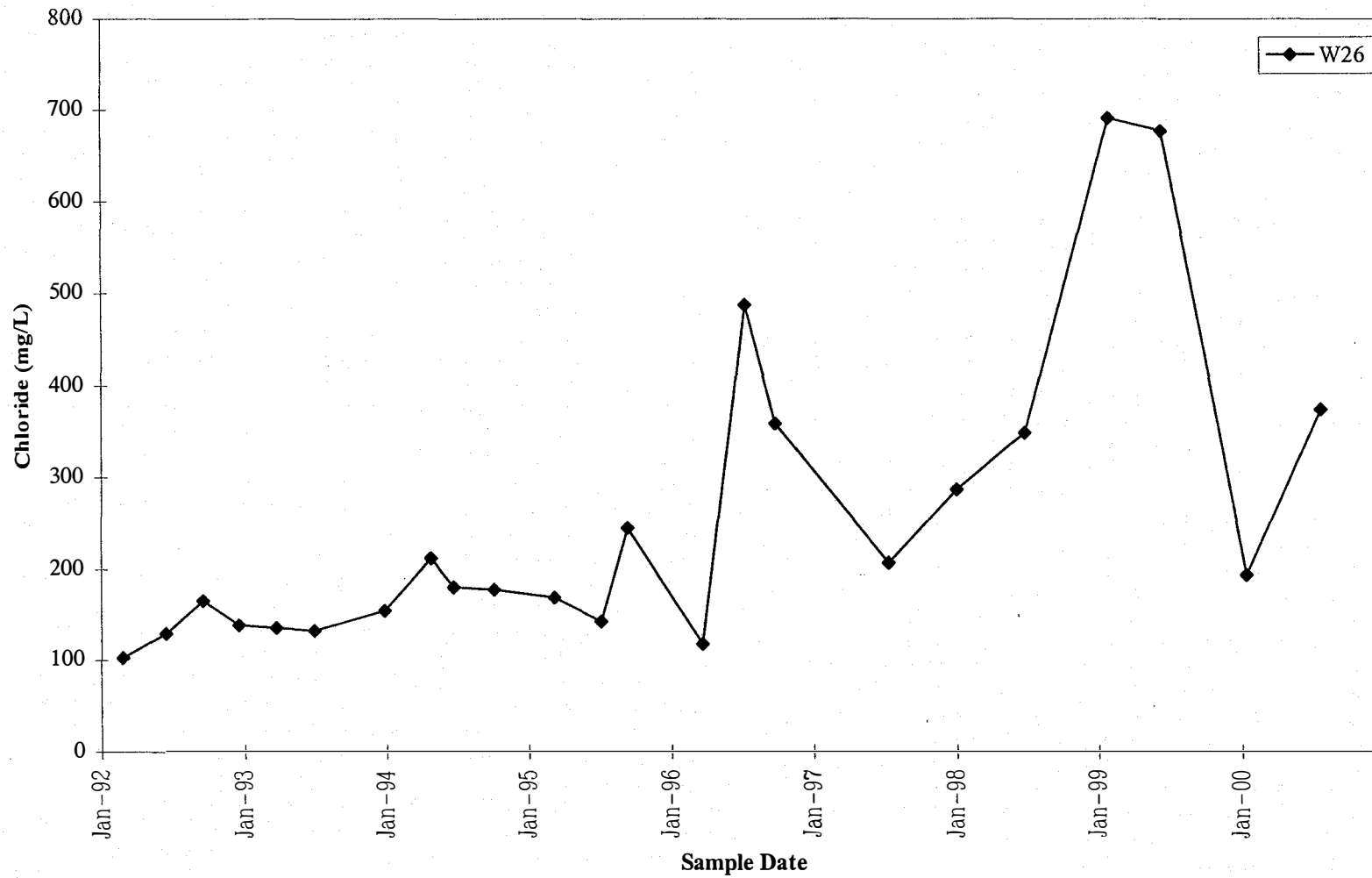
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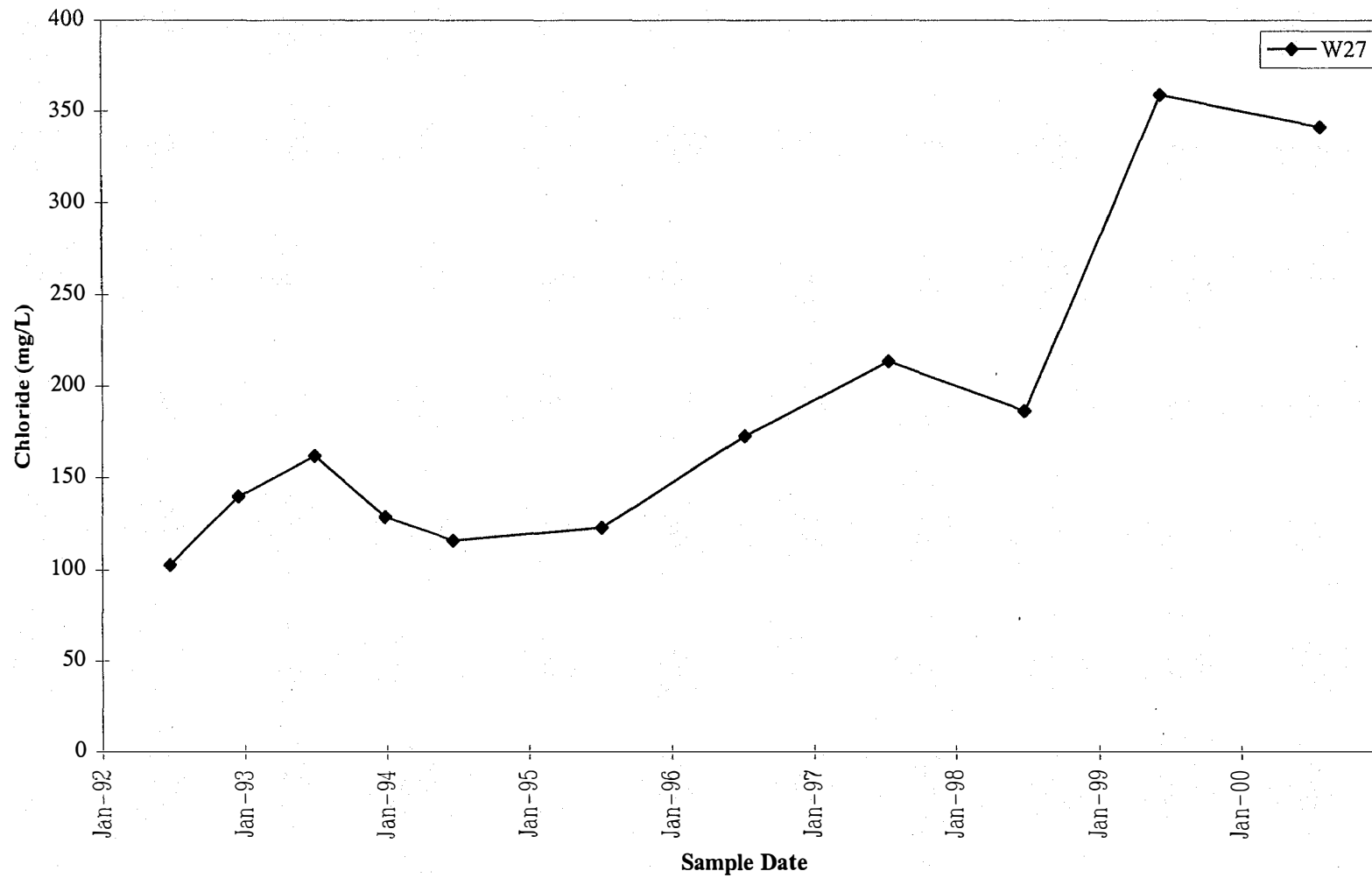
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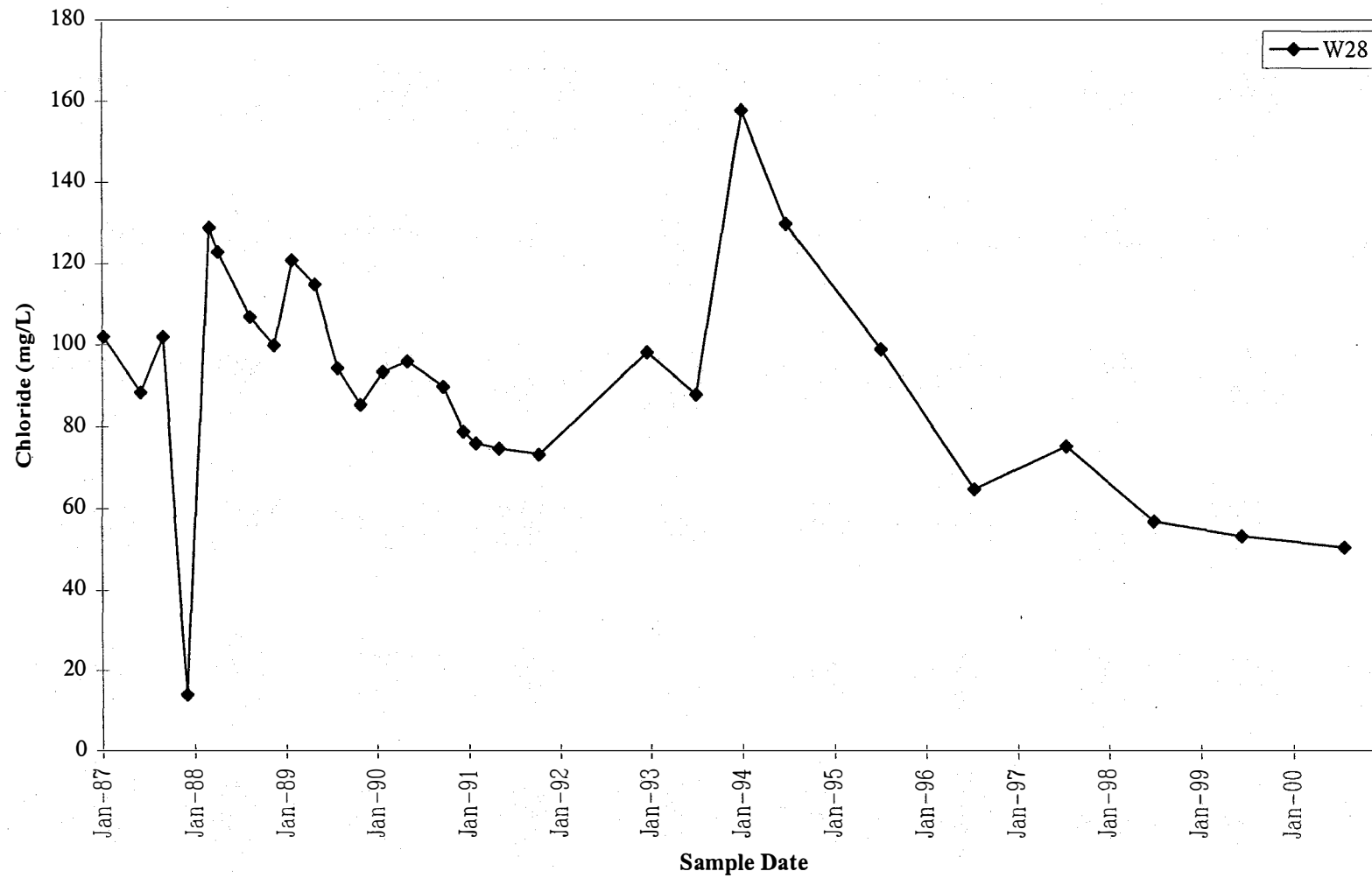
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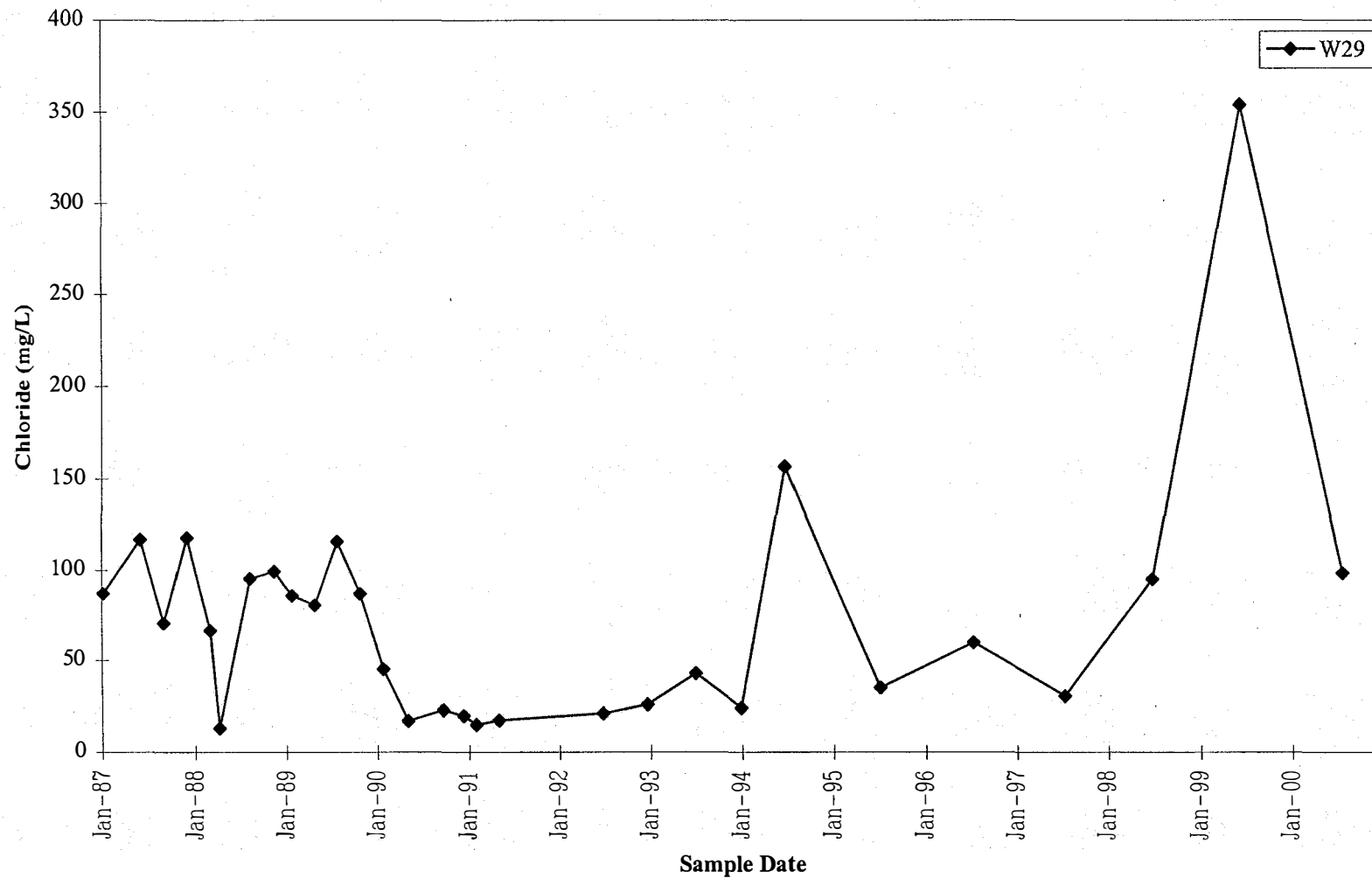
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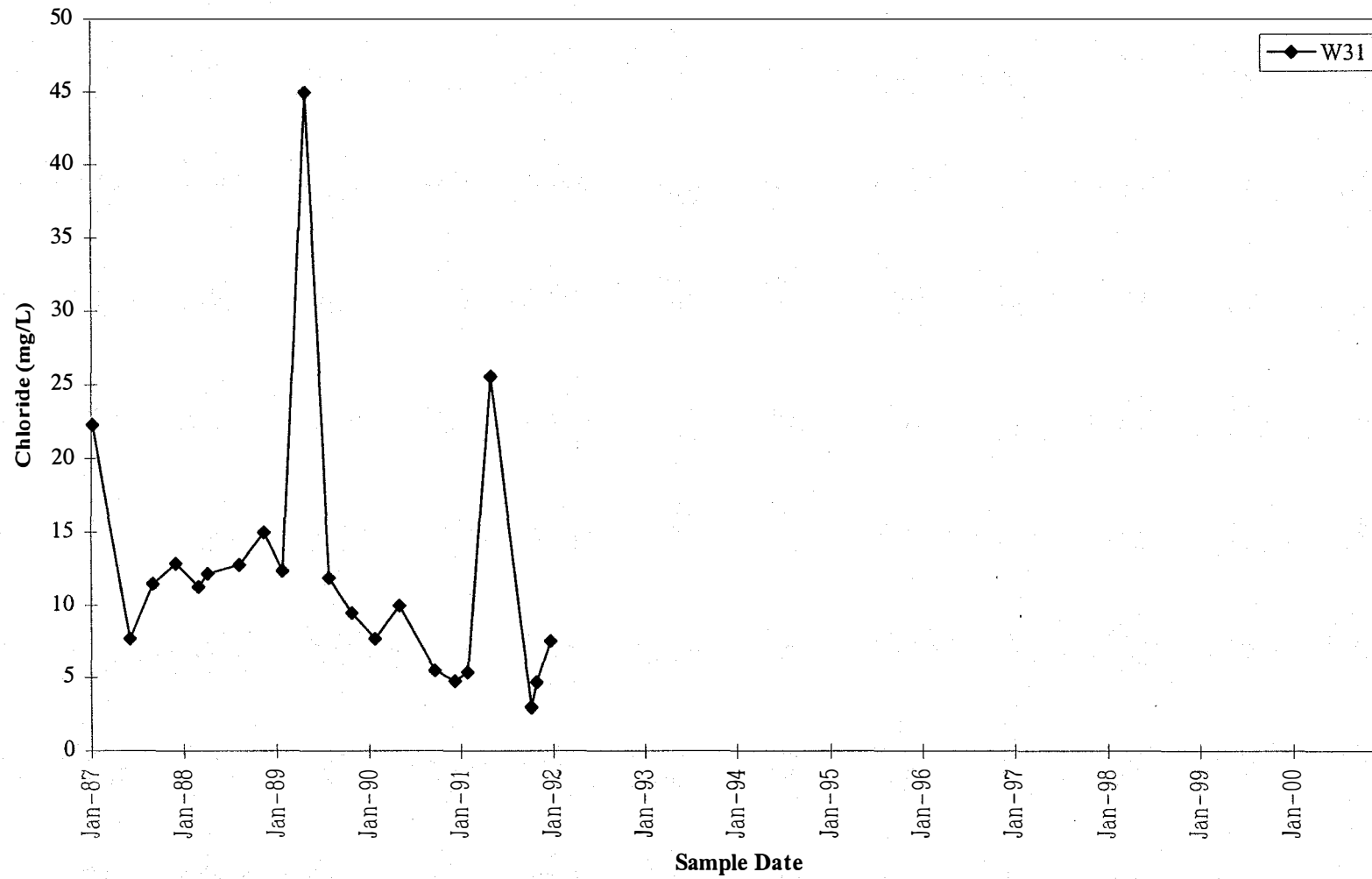
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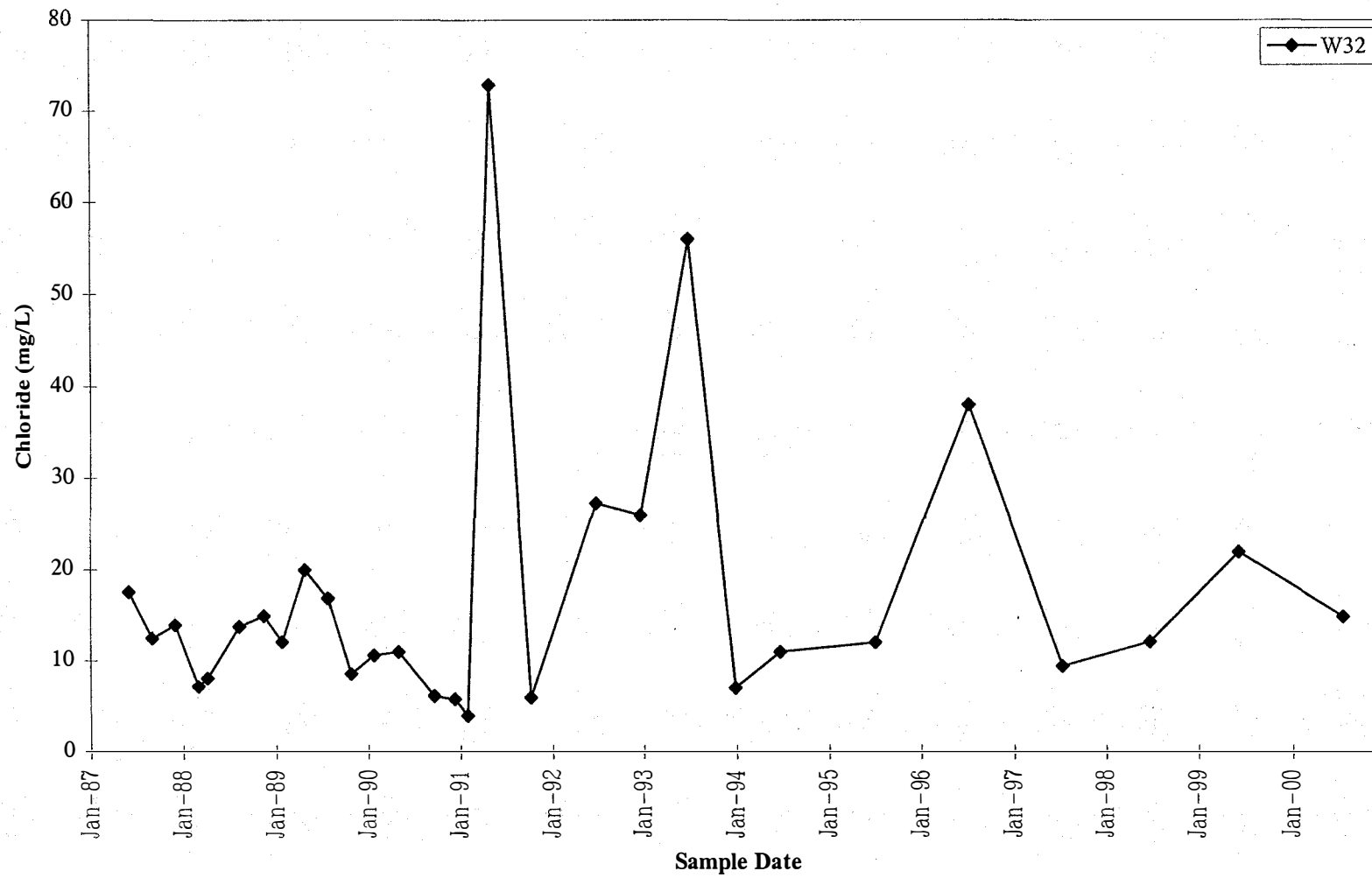
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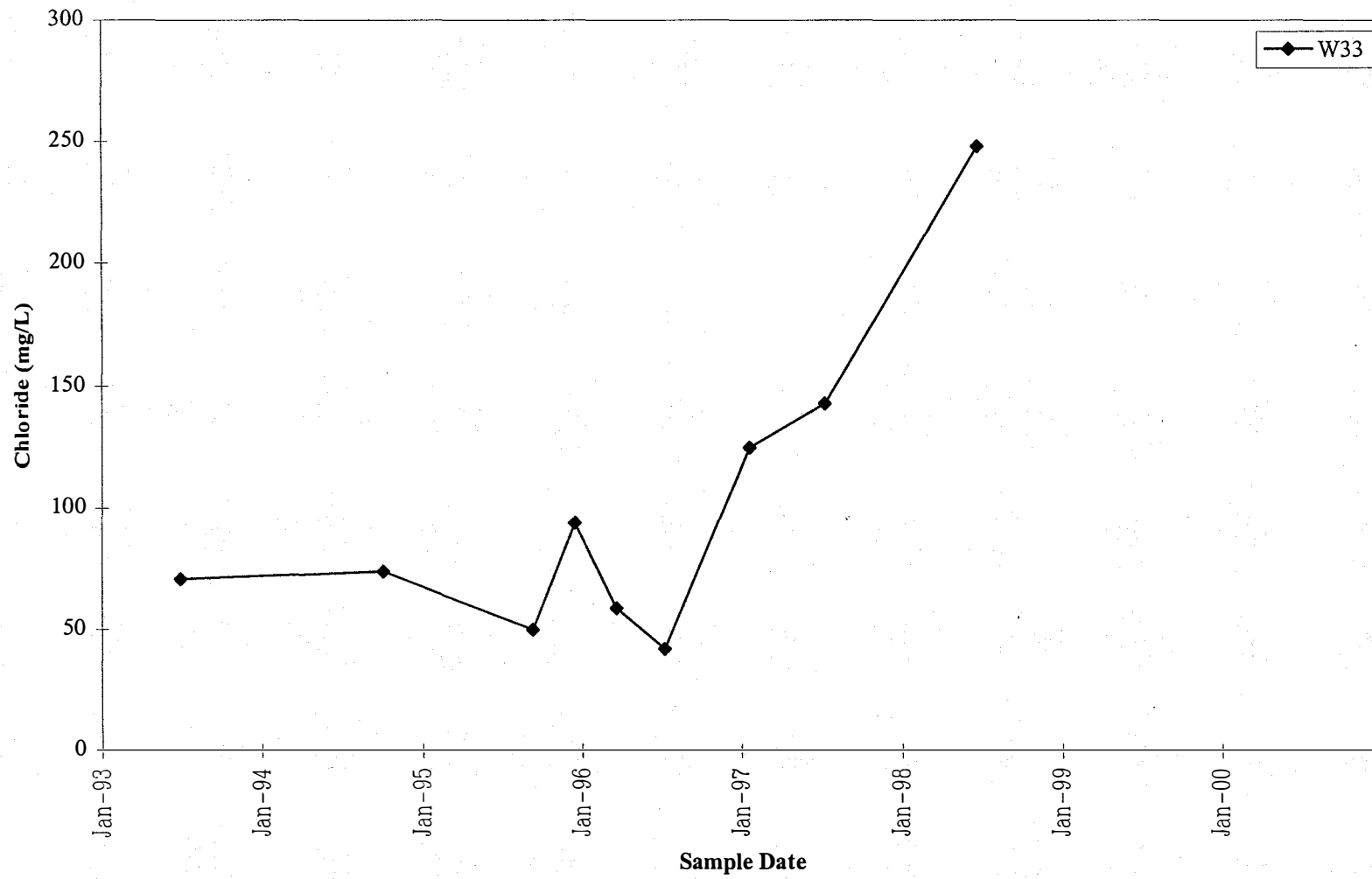
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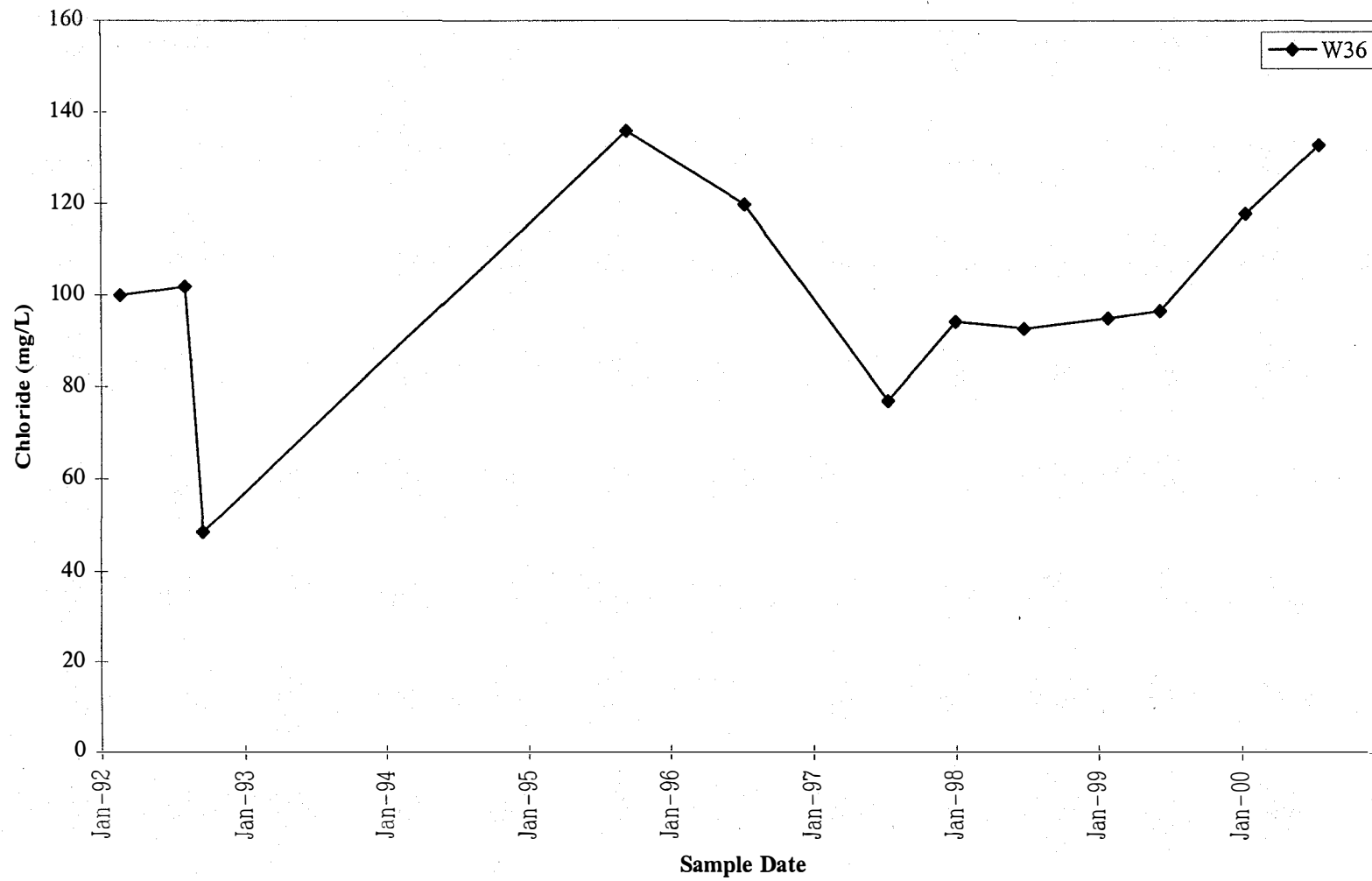
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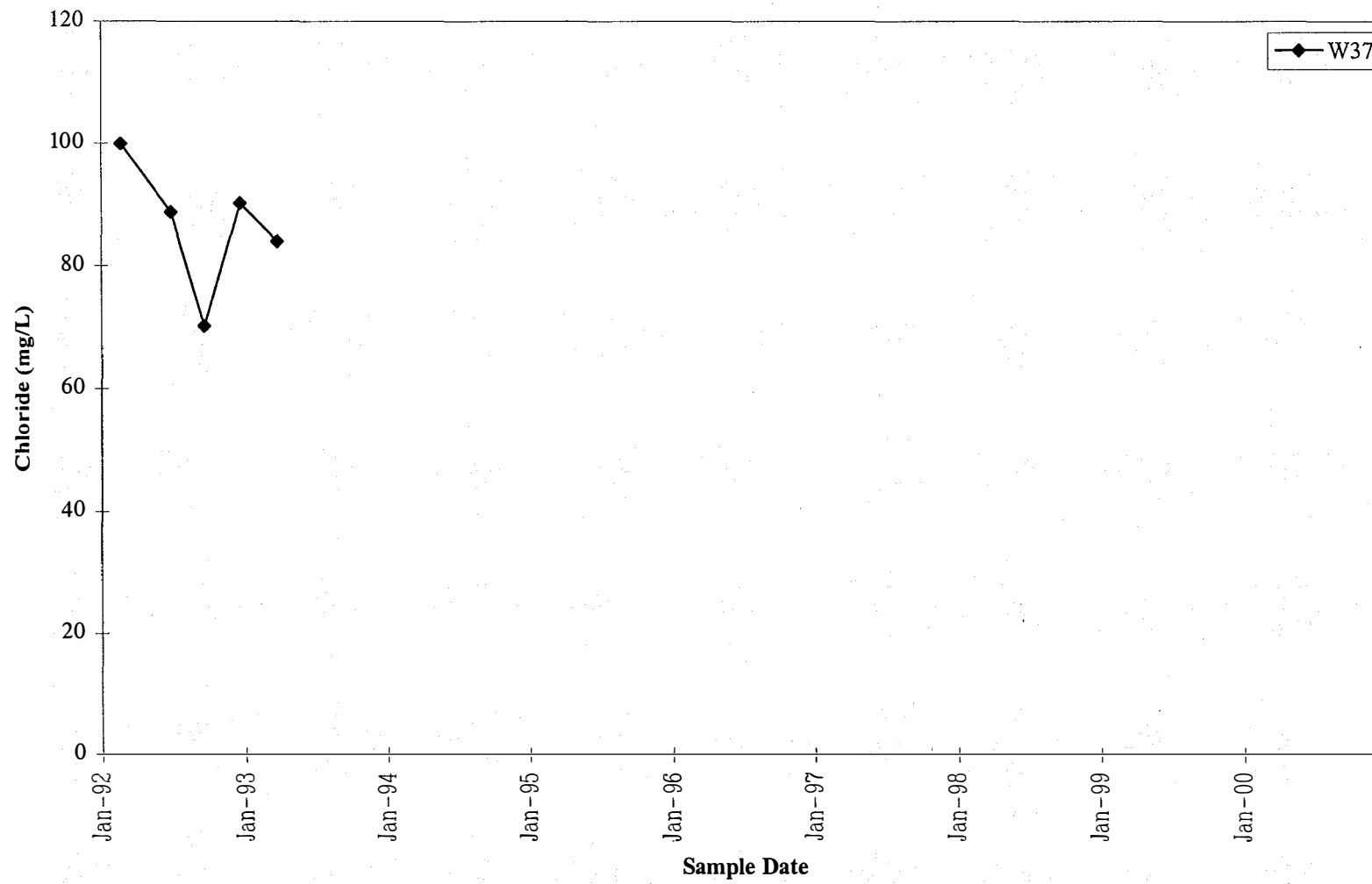
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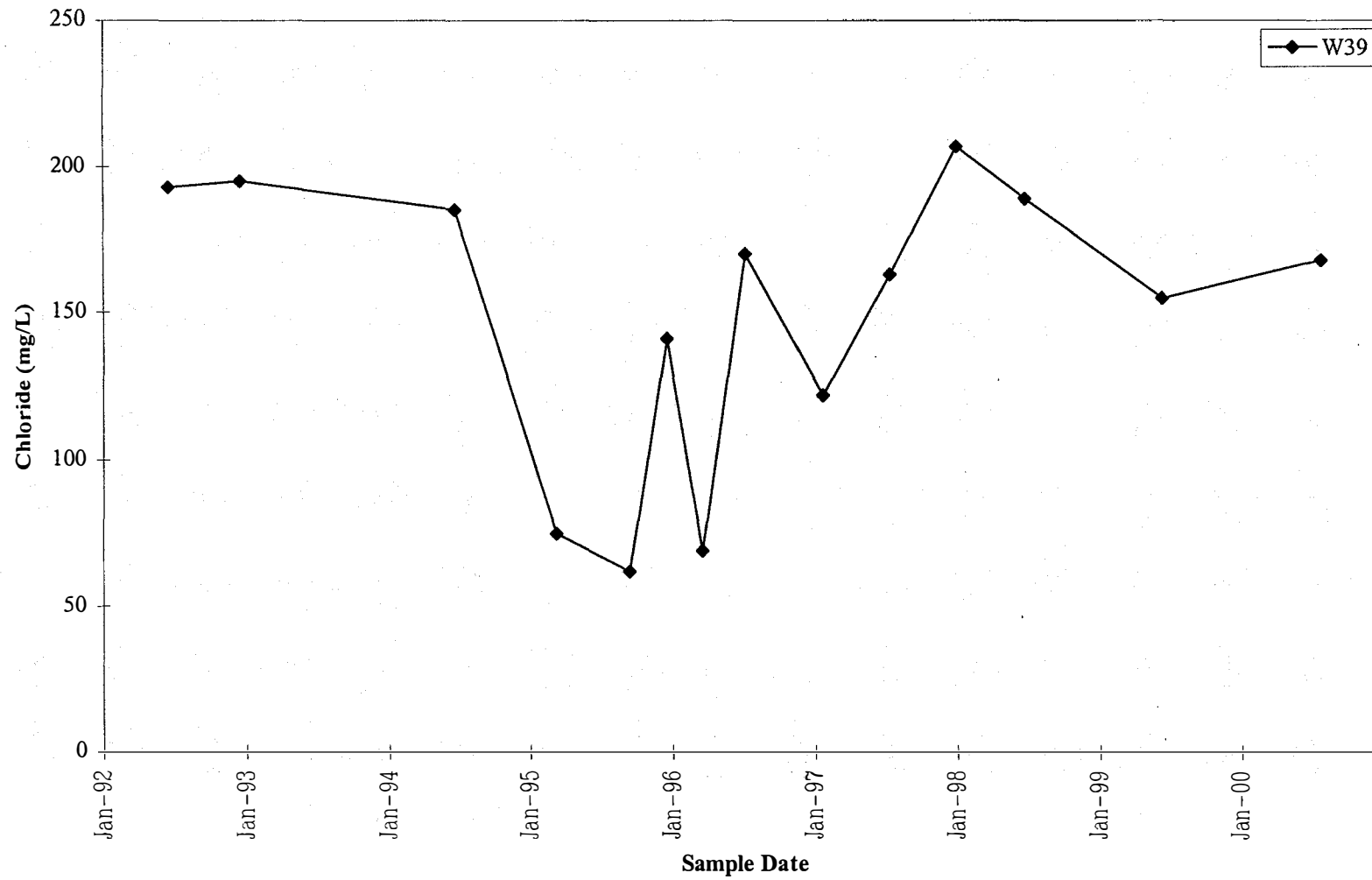
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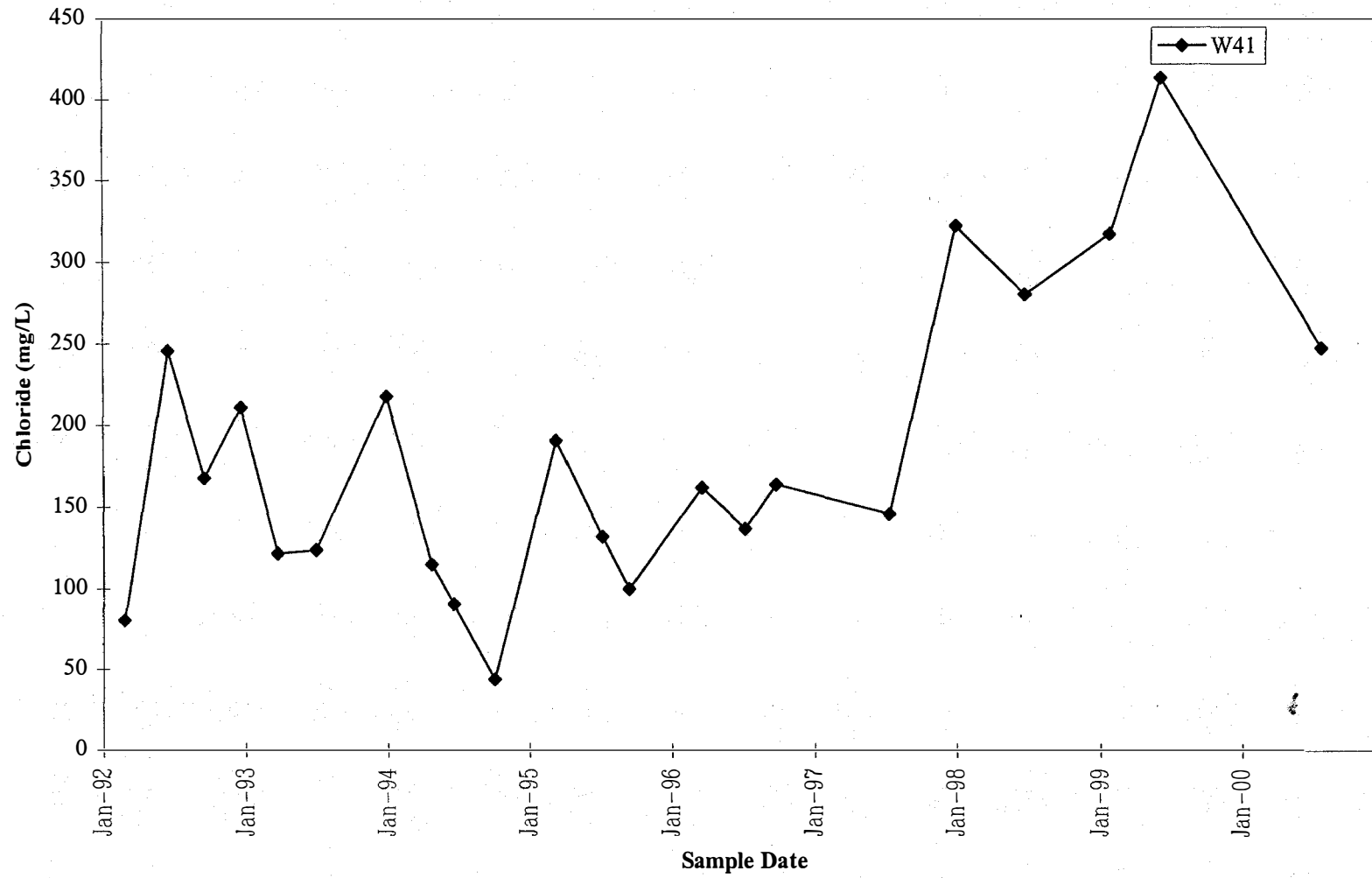
Chloride Concentrations Quarterly Groundwater Monitoring



Chloride Concentrations Quarterly Groundwater Monitoring



Chloride Concentrations Quarterly Groundwater Monitoring





MONTGOMERY WATSON

RECEIVED

APR 26 2001

WAUSAU DNR

April 25, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the March Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
MARCH 2001**

SUMMARY OF MARCH 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 2 ug/L for the month of March, with a maximum single day concentration of 8 ug/L on March 2, 2001.

Laboratory results for March were not available as of the date of this report due to laboratory delays. Results from this sampling and the April sampling will both be presented in the April 2001 monthly report. On-site screening results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

PCP influent concentrations ranged from 7032 ug/L to 10,367 ug/L during March (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent remained generally stable in March. PCP effluent levels increased slightly, but remain well below historic levels. The average PCP removal efficiency for the FBR during March was 80% compared to an average of 79% during the previous year.

Daily groundwater flow through the treatment system (Table 2) averaged 53 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site continued to decrease in March. Product recovery for March was 4614 gallons, up from 3189 gallons in February. By comparison, total product recovery was 5924 gallons in March 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

PHL/phl/DJB

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TABLE 1

**Above Ground Treatment System Data
Waualeco, Inc.
Wausau, Wisconsin**

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Dissolved Oxygen	mg/L	03/01/01	6.8	2.7	3.3				
	mg/L	03/08/01	7.2	2.6	3.7				
	mg/L	03/15/01	6.7	2	2.8				
	mg/L	03/22/01	7	2.8	3.7				
	mg/L	03/29/01	6.8	3	3.2				
Nitrogen, Ammonia	mg/L	03/01/01	2.3	0.4	0.3				
	mg/L	03/08/01	2.5	0.6	0.4				
	mg/L	03/15/01	2.5	0.6	0.6				
	mg/L	03/22/01	2.5	0.6	0.6				
	mg/L	03/29/01	2.5	0.6	0.6				
Nitrogen, Nitrate	mg/L	03/01/01	<	<	<				
	mg/L	03/08/01	<	<	<				
	mg/L	03/15/01	<	<	<				
	mg/L	03/22/01	<	<	<				
	mg/L	03/29/01	<	<	<				
Pentachlorophenol-Screen	µg/L	03/01/01	7032	2598	1177			2	
	µg/L	03/02/01						8	
	µg/L	03/03/01						4	
	µg/L	03/04/01						4	
	µg/L	03/05/01						4	
	µg/L	03/06/01						6	
	µg/L	03/07/01						2	
	µg/L	03/08/01	9466	1098	2005			5	
	µg/L	03/09/01						2	
	µg/L	03/10/01						1	
	µg/L	03/11/01						1	
	µg/L	03/12/01						1	
	µg/L	03/13/01						2	
	µg/L	03/14/01						2	
	µg/L	03/15/01	9680	1607	1361			2	
	µg/L	03/16/01						1	
	µg/L	03/17/01						1	
	µg/L	03/18/01						1	
	µg/L	03/19/01						1	
	µg/L	03/20/01						1	
	µg/L	03/21/01						1	
	µg/L	03/22/01	10367	1715	1309			2	
	µg/L	03/23/01						2	
	µg/L	03/24/01						1	
	µg/L	03/25/01						1	
	µg/L	03/26/01						1	
	µg/L	03/27/01						2	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	03/28/01						1	
	µg/L	03/29/01	9185	1722	1487			1	
	µg/L	03/30/01						2	
	µg/L	03/31/01						2	
pH	S.U.	03/01/01	6.3	6.4	6.55				
	S.U.	03/08/01	6.25	6.3	6.4				
	S.U.	03/15/01	6.2	6.3	6.4				
	S.U.	03/22/01	6.2	6.3	6.4				
	S.U.	03/29/01	6.2	6.35	6.45				
Phosphorus, Phosphate	mg/L	03/01/01	1.5	1	1				
	mg/L	03/08/01	1.5	0.8	0.8				
	mg/L	03/15/01	1	0.8	0.8				
	mg/L	03/22/01	1.5	0.8	0.8				
	mg/L	03/29/01	1.5	0.7	0.7				

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
03/01/01	50.29	42.83	44,385,727
03/02/01	50.92	44.07	44,449,181
03/03/01	51.52	40.94	44,508,139
03/04/01	51.29	39.67	44,565,260
03/05/01	51.03	39.23	44,621,748
03/06/01	52.88	42.91	44,683,543
03/07/01	53.86	42.75	44,745,104
03/08/01	53.85	42.54	44,806,357
03/09/01	53.69	44.65	44,870,656
03/10/01	53.52	43.29	44,933,000
03/11/01	53.33	42.19	44,993,758
03/12/01	53.56	41.65	45,053,731
03/13/01	53.50	42.74	45,115,276
03/14/01	53.60	41.97	45,175,708
03/15/01	53.47	42.25	45,236,552
03/16/01	53.78	42.19	45,297,303
03/17/01	53.67	40.97	45,339,800
03/18/01	53.13	39.81	45,397,126
03/19/01	52.82	40.01	45,454,742
03/20/01	53.01	38.93	45,510,808
03/21/01	52.89	40.45	45,569,056
03/22/01	53.27	40.25	45,627,017
03/23/01	52.86	39.70	45,684,179
03/24/01	52.80	39.10	45,740,483
03/25/01	52.45	39.53	45,797,401
03/26/01	51.50	38.36	45,852,644
03/27/01	53.69	39.63	45,909,704
03/28/01	53.00	39.55	45,966,652
03/29/01	53.67	40.02	46,024,284
03/30/01	53.58	39.95	46,081,817
03/31/01	52.86	39.59	46,138,832

Average	52.88	41.02	
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Total ⁽²⁾ :			1,823,110
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
03/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	65.4	0.0	8.6	1.7	0.0	0.0	12.0	20.4	17.2	13.8	0.0	0.0	149.4
03/02/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	63.6	0.0	6.9	0.0	0.0	0.0	25.8	20.4	17.2	13.8	0.0	0.0	159.7
03/03/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	10.3	0.0	0.0	1.7	51.6	0.0	3.4	1.7	0.0	0.0	25.8	20.4	17.2	13.8	0.0	0.0	147.6
03/04/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	1.7	51.6	0.0	5.2	0.0	0.0	0.0	25.8	20.4	17.2	10.3	0.0	0.0	145.9
03/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	1.7	51.6	0.0	3.4	1.7	0.0	0.0	25.8	20.4	17.2	10.3	0.0	0.0	145.9
03/06/01	1.7	0.0	0.0	0.0	0.0	1.7	0.0	12.0	0.0	0.0	1.7	51.6	0.0	3.4	0.0	0.0	0.0	25.8	20.4	17.2	10.3	0.0	0.0	145.8
03/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	51.6	0.0	5.2	0.0	0.0	0.0	25.8	17.2	17.2	10.3	0.0	0.0	134.2
03/08/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	51.6	0.0	5.2	1.7	0.0	0.0	51.6	17.2	17.2	10.3	0.0	0.0	163.4
03/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	1.7	51.6	0.0	5.2	0.0	0.0	0.0	51.6	15.5	17.2	12.0	0.0	0.0	160.0
03/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	51.6	0.0	5.2	0.0	0.0	0.0	51.6	15.5	17.2	13.8	0.0	0.0	161.8
03/11/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	51.6	0.0	5.2	1.7	0.0	0.0	34.4	13.8	13.8	12.0	0.0	0.0	141.1
03/12/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.9	0.0	0.0	1.7	51.6	0.0	5.2	0.0	0.0	0.0	34.4	13.8	13.8	13.8	0.0	0.0	142.9
03/13/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	51.6	0.0	5.2	0.0	0.0	0.0	34.4	10.3	12.0	13.8	0.0	0.0	137.6
03/14/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	8.6	0.0	0.0	0.0	51.6	0.0	5.2	1.7	0.0	0.0	34.4	10.3	12.0	10.3	0.0	0.0	135.8
03/15/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	5.2	0.0	0.0	0.0	34.4	10.3	17.2	10.3	0.0	0.0	141.0
03/16/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	60.2	0.0	5.2	1.7	0.0	0.0	34.4	10.3	17.2	8.6	0.0	0.0	149.6
03/17/01	1.7	0.0	0.0	0.0	0.0	1.7	0.0	8.6	0.0	0.0	1.7	60.2	0.0	5.2	0.0	0.0	0.0	34.4	10.3	17.2	8.6	0.0	0.0	149.6
03/18/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	1.7	60.2	0.0	5.2	1.7	0.0	0.0	34.4	8.6	17.2	12.0	0.0	0.0	147.9
03/19/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	1.7	60.2	0.0	5.2	0.0	0.0	0.0	34.4	8.6	17.2	12.0	0.0	0.0	147.9
03/20/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	10.3	0.0	0.0	1.7	60.2	0.0	5.2	1.7	0.0	0.0	34.4	8.6	17.2	13.8	0.0	0.0	154.8
03/21/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	1.7	60.2	0.0	6.9	1.7	0.0	0.0	34.4	8.6	17.2	13.8	0.0	0.0	156.5
03/22/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.9	0.0	0.0	1.7	51.6	0.0	8.6	1.7	0.0	0.0	34.4	8.6	17.2	15.3	0.0	0.0	147.7
03/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	6.9	1.7	0.0	0.0	34.4	8.6	17.2	13.8	0.0	0.0	144.5
03/24/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	5.2	1.7	0.0	0.0	34.4	6.9	23.8	12.0	0.0	0.0	147.6
03/25/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	3.4	51.6	0.0	5.2	1.7	0.0	1.7	34.4	8.6	27.5	10.3	0.0	0.0	154.7
03/26/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	1.7	51.6	0.0	8.6	1.7	0.0	0.0	34.4	8.6	25.8	17.2	0.0	0.0	161.6
03/27/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	5.2	1.7	0.0	0.0	34.4	8.6	25.8	17.2	0.0	0.0	156.5
03/28/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	51.6	0.0	3.4	0.0	0.0	1.7	25.8	10.3	25.8	17.2	0.0	0.0	146.1
03/29/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	3.4	0.0	0.0	0.0	25.8	8.6	25.8	17.2	0.0	0.0	144.4
03/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	51.6	0.0	3.4	1.7	0.0	1.7	25.8	10.3	25.8	17.2	0.0	0.0	146.1
03/31/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	3.4	0.0	0.0	0.0	25.8	10.3	25.8	17.2	0.0	0.0	146.1
Well Total	30.6	0.0	0.0	0.0	0.0	11.9	0.0	268.4	0.0	0.0	40.8	1677.0	0.0	163.9	28.9	0.0	5.1	1009.6	390.7	584.5	402.3	0.0	0.0	4613.7

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:
PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW19, PW22, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	January 29 2001		February 19 2001		March 19 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1161.30	-----	1161.10	-----	1160.90
PW02	-----	Frozen	-----	Frozen	-----	Frozen
PW03	0.01	1161.87	-----	1161.26	-----	1161.14
PW3S	0.11	1158.54	-----	-----	-----	-----
PW04	0.68	1154.17	0.92	1154.79	0.54	1154.38
PW05	0.72	1156.56	1.02	1155.78	0.78	1155.53
PW06	0.49	1160.32	-----	-----	-----	-----
PW07	0.04	1156.00	0.09	1156.00	0.77	1155.30
PW08	0.30	1159.64	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1159.84	-----	1159.66	-----	1159.39
PW10	0.01	1159.88	-----	1159.68	0.02	1159.42
PW11	0.88	1153.75	0.69	1154.34	0.71	1154.05
PW12	0.01	1160.12	-----	Frozen	-----	1160.72
PW13	0.44	1159.25	0.82	1157.07	0.46	1157.40
PW14	0.04	1159.41	-----	-----	-----	-----
PW15	0.32	1158.71	0.32	1158.64	0.32	1158.48
PW16	-----	1159.12	-----	1160.09	-----	1157.84
PW17	1.42	1155.90	0.77	1156.31	0.98	1156.47
PW18	0.52	1157.94	0.62	1157.51	0.46	1156.30
PW19	0.36	1157.24	0.31	1157.20	0.26	1157.01
PW20	2.37	1155.72	0.83	1156.77	0.58	1156.84
PW21	0.68	1157.76	0.99	1157.31	1.03	1156.52
PW22	-----	1160.02	-----	1159.86	-----	1159.60
PW23	0.07	1158.13	0.04	1157.97	0.64	1156.30
PW24	1.95	1155.60	1.18	1156.08	0.54	1156.24
PW25	0.84	1156.14	0.38	1156.47	0.76	1155.92
PW26	1.04	1155.23	0.52	1155.56	0.73	1155.13
PW27	1.39	1155.34	0.44	1156.04	0.85	1155.32
PW28	0.04	1160.34	0.06	1160.07	0.45	1159.59
PW29	0.08	1159.15	0.09	1158.37	0.22	1157.94
P01	0.26	1159.28	0.23	1159.12	0.24	1158.78
OW01	-----	1161.78	-----	-----	-----	-----
W01A	-----	1161.91	-----	1161.68	-----	1161.47
W01B	-----	1161.88	-----	-----	-----	-----
W02	0.51	1160.91	0.55	1160.63	0.74	1160.32
W03A	0.66	1158.74	0.58	1158.76	0.62	1158.63
W03B	-----	1160.65	-----	1160.54	-----	1160.46
W04A	0.30	1160.49	0.42	1160.24	0.42	1160.03
W04B	0.11	1160.64	-----	-----	-----	-----
W05	0.36	1159.27	0.73	1158.69	0.40	1158.73
W06R	0.26	1161.56	0.24	1161.34	0.28	1161.10
W07	0.24	1161.21	-----	-----	-----	-----
W08	-----	1170.47	-----	-----	-----	-----
W09	-----	1161.18	-----	-----	-----	-----
W10A	-----	1160.71	-----	-----	-----	-----
W10B	-----	1160.73	-----	-----	-----	-----
W11	-----	1160.61	-----	-----	-----	-----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	January 29 2001		February 19 2001		March 19 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1160.35	-----	-----	-----	-----
W13	-----	1160.77	-----	1160.76	-----	1160.68
W14	-----	1159.45	-----	-----	-----	-----
W16	-----	1160.99	-----	-----	-----	-----
W17	0.53	1159.04	-----	-----	-----	-----
W18	-----	1160.68	-----	-----	-----	-----
W19	0.01	1161.24	-----	-----	-----	-----
W21	-----	1160.66	-----	-----	-----	-----
W22	0.11	1159.76	0.08	1159.71	0.09	1159.61
W23	-----	1160.57	-----	-----	-----	-----
W24A	-----	1160.57	-----	-----	-----	-----
W25	-----	1161.87	-----	1161.65	-----	1161.46
W26	-----	1160.65	-----	-----	-----	-----
W27	-----	1160.74	-----	-----	-----	-----
W28	-----	1160.82	-----	-----	-----	-----
W29	-----	1160.70	-----	-----	-----	-----
W30	0.46	1159.01	0.49	1158.82	0.50	1158.49
W31	-----	1160.79	-----	-----	-----	-----
W32	-----	1160.80	-----	-----	-----	-----
W33	0.28	1160.20	-----	-----	-----	-----
W34	0.13	1156.85	0.13	1156.74	0.12	1156.53
W35	0.39	1159.31	0.36	1159.24	0.28	1159.02
W36	-----	1160.43	-----	1160.16	-----	1159.95
W39	0.06	1160.46	-----	-----	-----	-----
W40	0.57	1159.70	-----	-----	-----	-----
W41	-----	1160.87	-----	1160.73	-----	1160.67
W42	0.10	1161.10	-----	-----	-----	-----
W44	0.40	1159.49	0.40	1159.33	0.36	1159.06
W45	0.05	1159.80	0.04	1159.65	0.07	1159.31
W46	0.77	1158.98	0.24	1158.95	0.21	1158.62
W47	0.77	1154.71	0.68	1154.75	0.66	1154.66
W48	0.05	1154.96	0.07	1154.85	0.03	1154.70
W49	0.39	1155.47	0.40	1155.39	0.33	1155.31
W66	-----	1161.72	-----	1161.51	-----	1161.32
W67	-----	1161.69	-----	1161.47	-----	1161.28
W68A	0.43	1161.39	-----	-----	-----	-----
W68B	0.01	1161.70	-----	-----	-----	-----
W69	0.47	1159.96	0.61	1159.68	0.79	1159.28
W70B	-----	1161.42	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

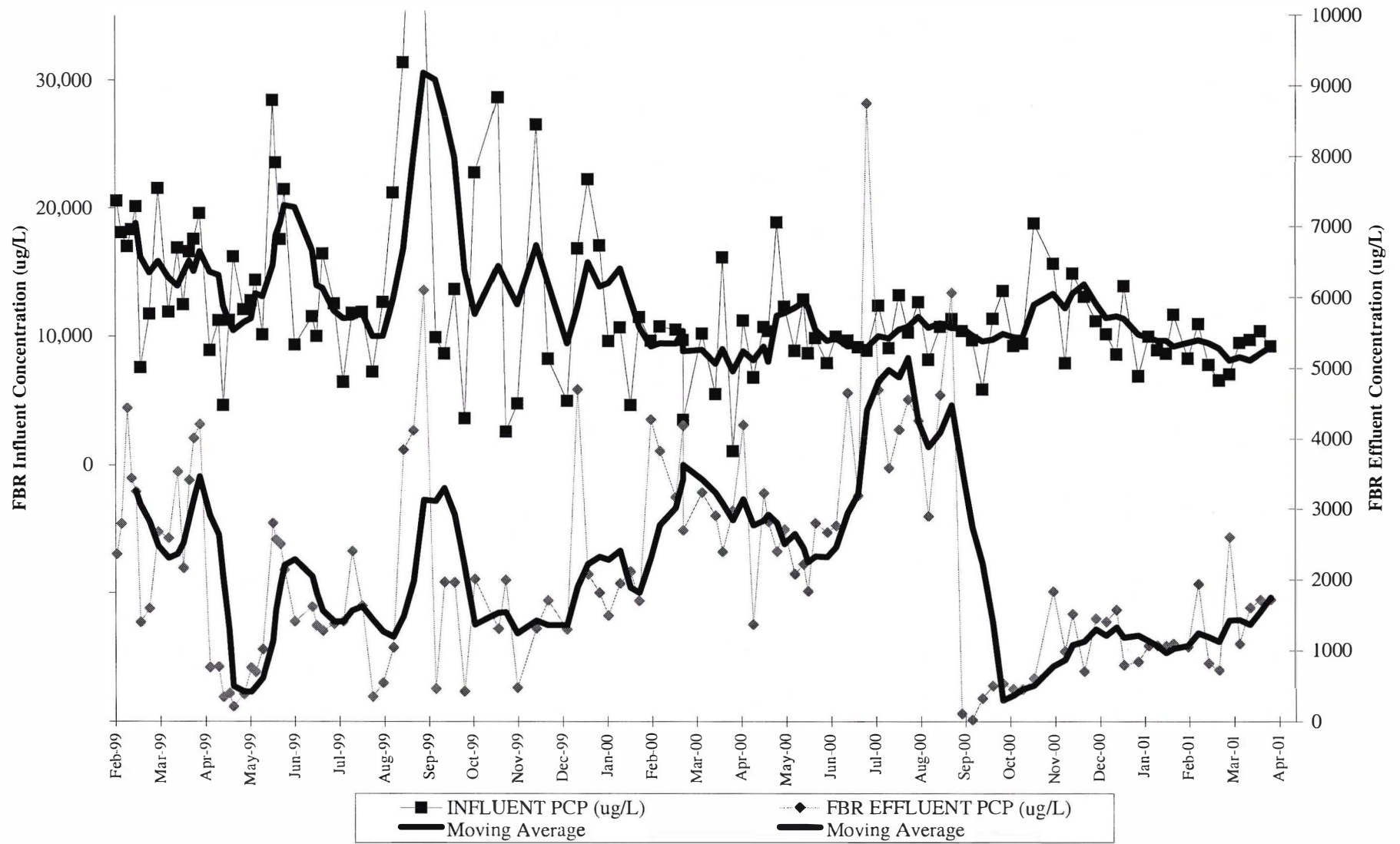
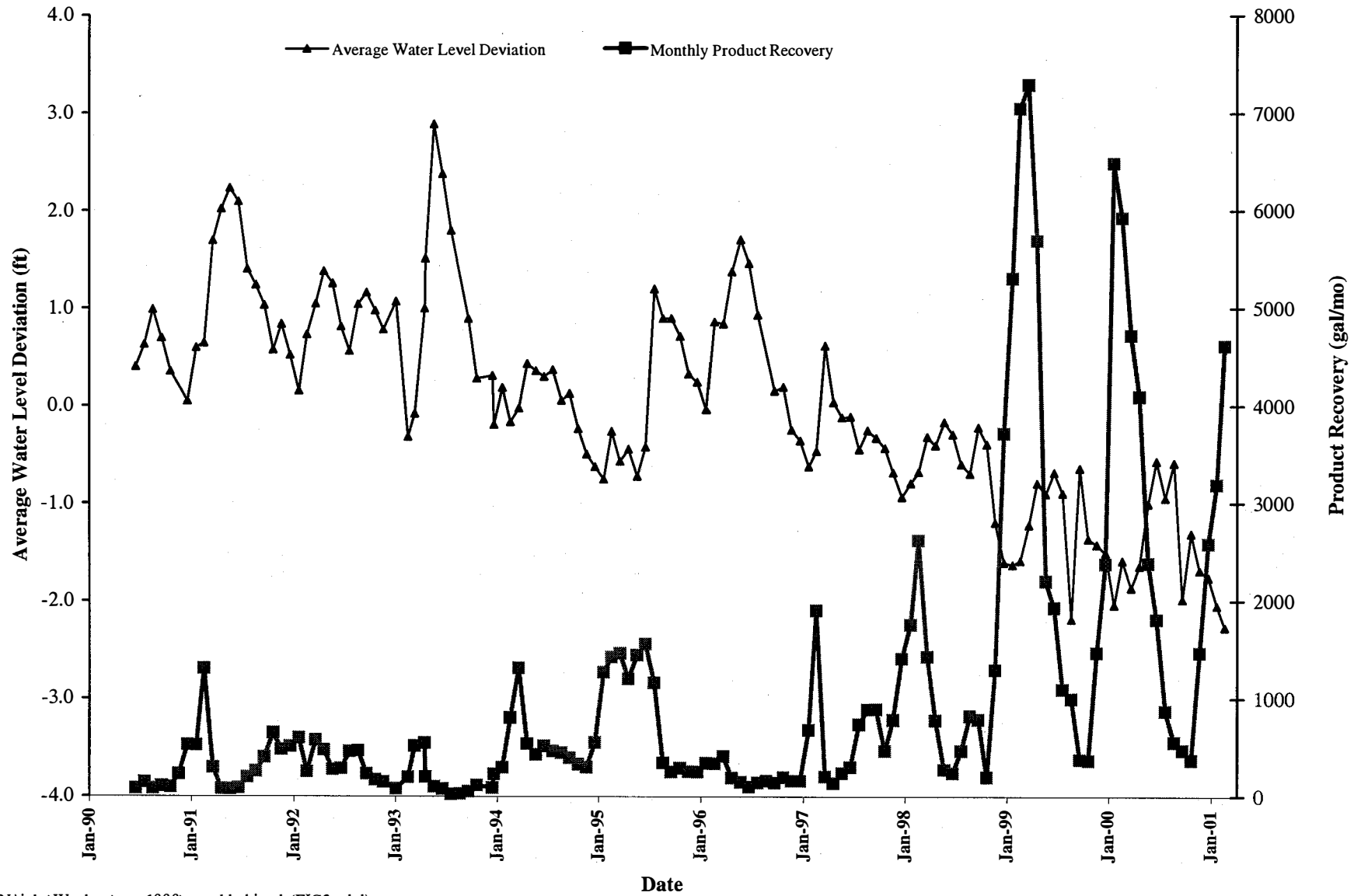
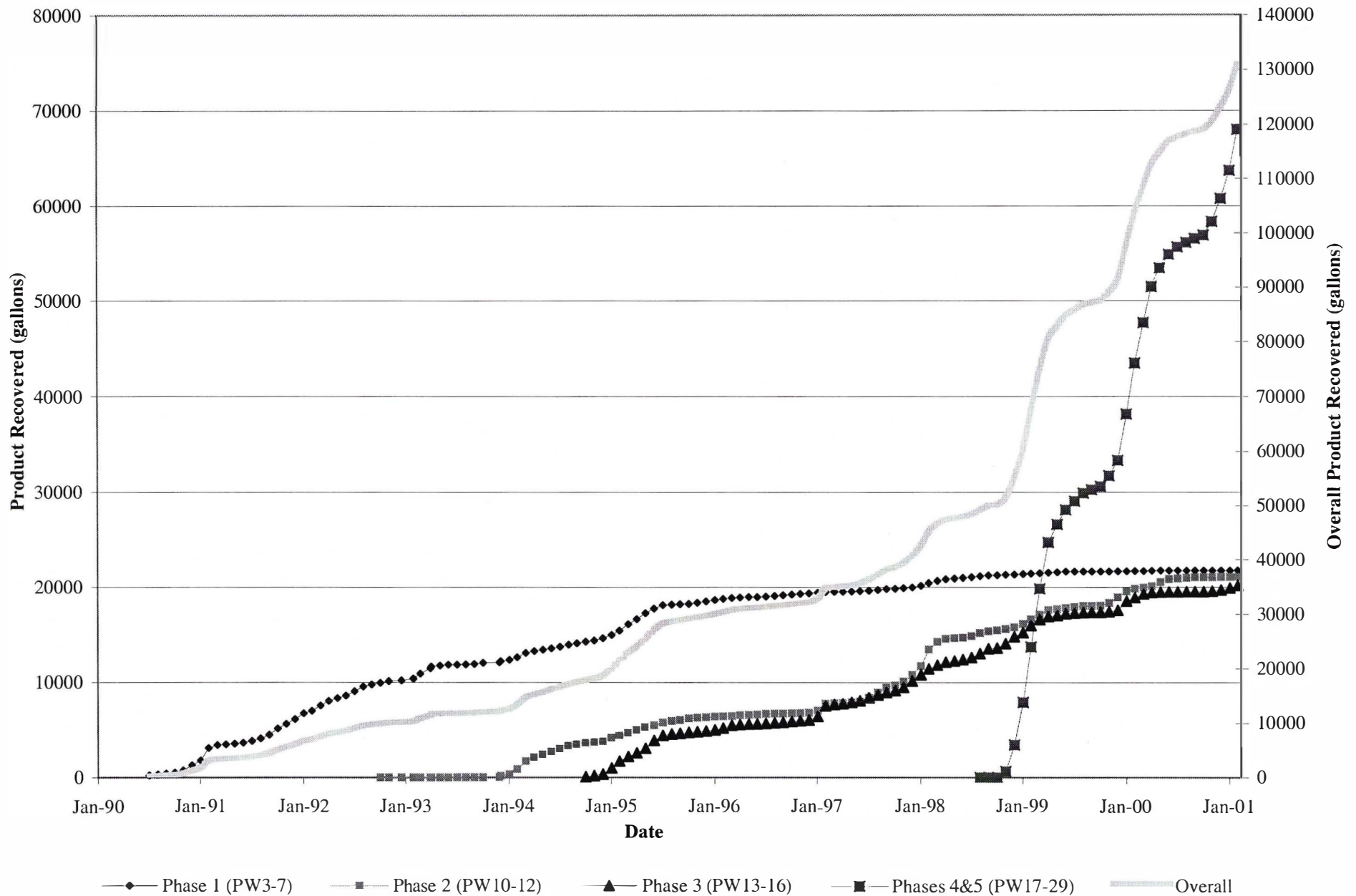


FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MONTGOMERY WATSON

March 12, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

RECEIVED
MAR 14 2001
WAUSAU DNR

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the February Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
FEBRUARY 2001**

SUMMARY OF FEBRUARY 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 5 ug/L for the month of February, with a maximum single day concentration of 13 ug/L on February 7, 2001.

As discussed in the last monthly report, laboratory results from the January 2001 sampling were not in time for the January monthly report due to late delivery of the laboratory's PCP reference standards. Therefore, this report contains laboratory results for both January and February 2001. The laboratory result for PCP in the system effluent for January was 4 ug/L on January 22 and 6 ug/L on February 15, 2001. The on-site result for the same period was 6 ug/L in January and ranged from 4 to 6 ug/L during the same period in February. All results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on January 22 and February 15, 2001 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was <0.14 ug/L.

PCP influent concentrations ranged from 6574 ug/L to 10,924 ug/L during February (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent and effluent remained generally stable in February. The average PCP removal efficiency for the FBR during February was 87% compared to an average of 76% during the previous year.

Daily groundwater flow through the treatment system (Table 2) averaged 51 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site continued to decrease in February. Product recovery for February was 3189 gallons, up from 2582 gallons in January. By comparison, total product recovery was 6485 gallons in February 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters 1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	01/22/01	20	10				<	
	mg/L	02/15/01	19	8				<	
Chemical Oxygen Demand	mg/L	01/22/01	66	41				46	
	mg/L	02/15/01	62	57				28	
Chloride	mg/L	01/22/01	241	227				273	
	mg/L	02/15/01	240	250				250	
Dissolved Oxygen	mg/L	02/01/01	7.6	3.7	4.2				
	mg/L	02/08/01	7.3	3.8	4.7				
	mg/L	02/15/01	6	2.5	3.3				
	mg/L	02/22/01	6.7	2.2	2.9				
Nitrogen, Ammonia	mg/L	02/01/01	2.5	0.6	0.6				
	mg/L	02/08/01	2.5	0.4	0.4				
	mg/L	02/15/01	2.5	0.4	0.4				
	mg/L	02/22/01	2.5	0.4	0.4				
Nitrogen, Nitrate	mg/L	02/01/01	<	<	<				
	mg/L	02/08/01	<	<	<				
	mg/L	02/15/01	<	<	0.1				
	mg/L	02/22/01	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	01/22/01	0.68	1.02				0.5	
	mg/L	02/15/01	0.82	1.4				0.74	
Nitrogen, Total Kjeldahl	mg/L	01/22/01	3.13	0.79				0.39	
	mg/L	02/15/01	1.46	0.58				0.49	
Pentachlorophenol-Screen	µg/L	02/01/01	8248	1051	636			3	1
	µg/L	02/02/01						8	4.6
	µg/L	02/03/01						6	13
	µg/L	02/04/01						6	
	µg/L	02/05/01						6	
	µg/L	02/06/01						8	
	µg/L	02/07/01						13	
	µg/L	02/08/01	10924	1940	1208			7	
	µg/L	02/09/01						6	
	µg/L	02/10/01						7	
	µg/L	02/11/01						7	
	µg/L	02/12/01						7	
	µg/L	02/13/01						6	
	µg/L	02/14/01						4	
	µg/L	02/15/01	7759	816	436			6	
	µg/L	02/16/01						4	
	µg/L	02/17/01						2	
	µg/L	02/18/01						2	
	µg/L	02/19/01						2	
	µg/L	02/20/01						3	
	µg/L	02/21/01						3	
	µg/L	02/22/01	6574	721	525			2	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters 1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
	µg/L	02/23/01						3	
	µg/L	02/24/01						1	
	µg/L	02/25/01						1	
	µg/L	02/26/01						1	
	µg/L	02/27/01						2	
	µg/L	02/28/01						3	
pH	S.U.	02/01/01	6.4	6.45	6.55				
	S.U.	02/08/01	6.35	6.45	6.5				
	S.U.	02/15/01	6.25	6.35	6.45				
	S.U.	02/22/01	6.25	6.3	6.35				
Phosphorus, Ortho	mg/L	01/22/01	0.58	0.39				0.43	
	mg/L	02/15/01	0.31	0.25				0.32	
Phosphorus, Phosphate	mg/L	02/01/01	1.5	1	1				
	mg/L	02/08/01	0.8	0.6	0.6				
	mg/L	02/15/01	1	0.8	0.8				
	mg/L	02/22/01	1	0.6	0.6				
Solids, Total Suspended	mg/L	01/22/01	18	26		4	<	<	
	mg/L	02/15/01	6	13		7	<	<	
Mercury	µg/L	01/22/01	0.37	0.42				<	
	µg/L	02/15/01	1.2	0.29				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	35	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	4.7	<	5.5
2,4-Dimethylphenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	01/22/01	<	130	<	<	<	<	3
	µg/L	02/15/01	4100	100	66	73	14	7.4	19
2,6-Dichlorophenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	11	<	13
2-Chlorophenol	µg/L	01/22/01	<	200	140	140	72	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
2-Methylphenol	µg/L	01/22/01	<	<	<	<	<	<	<

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
	µg/L	02/15/01	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	2300	44	39	37	5.9	5.5	4.4
4-Chloro-3-Methylphenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	01/22/01	<	<	<	100	47	<	5
	µg/L	02/15/01	<	100	65	92	7.8	8	5.4
Pentachlorophenol	µg/L	01/22/01	11000	1300	720	890	300	3.9	5.4
	µg/L	02/15/01	5000	420	240	190	6.4	5.7	3.7
Phenol	µg/L	01/22/01	<	<	<	<	<	<	<
	µg/L	02/15/01	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
02/01/01	52.34	42.80	42,672,014
02/02/01	52.57	44.01	42,735,384
02/03/01	53.38	43.81	42,798,470
02/04/01	53.27	45.31	42,863,720
02/05/01	52.66	44.16	42,927,306
02/06/01	52.45	42.27	42,988,179
02/07/01	52.14	44.97	43,052,941
02/08/01	52.55	44.35	43,116,806
02/09/01	52.41	44.29	43,180,589
02/10/01	52.09	44.40	43,244,524
02/11/01	51.76	43.53	43,307,214
02/12/01	51.47	42.19	43,367,971
02/13/01	51.55	40.96	43,426,956
02/14/01	51.62	42.59	43,488,291
02/15/01	51.62	43.58	43,551,043
02/16/01	51.75	43.39	43,613,524
02/17/01	51.63	44.34	43,677,379
02/18/01	51.26	42.53	43,738,618
02/19/01	50.89	42.18	43,799,350
02/20/01	49.28	41.30	43,858,824
02/21/01	48.92	40.65	43,917,354
02/22/01	49.20	41.51	43,977,129
02/23/01	49.19	41.22	44,036,485
02/24/01	48.28	39.03	44,092,695
02/25/01	46.51	38.70	44,148,417
02/26/01	46.48	38.75	44,204,215
02/27/01	46.50	38.71	44,259,962
02/28/01	46.49	38.72	44,315,722
Average	50.72	42.30	

Total ⁽²⁾: 1,705,343

Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
(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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
02/01/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.4	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	10.3	25.8	12.0	10.3	0.0	0.0	80.7
02/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	8.6	34.4	13.8	13.8	0.0	0.0	91.2
02/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	1.7	8.6	0.0	1.7	0.0	0.0	0.0	10.3	34.4	13.8	13.8	0.0	0.0	89.5
02/04/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	34.4	0.0	0.0	0.0	0.0	0.0	10.3	34.4	12.0	13.8	0.0	0.0	110.1
02/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	10.3	25.8	13.8	8.6	0.0	0.0	82.6
02/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	1.7	17.2	0.0	1.7	0.0	0.0	0.0	12.0	25.8	12.0	8.6	0.0	0.0	85.9
02/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	8.6	34.4	13.8	8.6	0.0	0.0	91.2
02/08/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	25.8	0.0	3.4	0.0	0.0	0.0	8.6	34.4	13.8	12.0	0.0	0.0	104.9
02/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	25.8	0.0	3.4	0.0	0.0	0.0	10.3	34.4	18.9	13.8	0.0	0.0	111.8
02/10/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	25.8	0.0	3.4	0.0	0.0	0.0	12.0	34.4	18.9	13.8	0.0	0.0	113.5
02/11/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	12.0	34.4	17.2	12.0	0.0	0.0	108.3
02/12/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	10.3	34.4	17.2	13.8	0.0	0.0	99.8
02/13/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	10.3	25.8	17.2	12.0	0.0	0.0	89.4
02/14/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	13.8	25.8	13.8	10.3	0.0	0.0	92.9
02/15/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	1.7	51.6	0.0	3.4	0.0	0.0	0.0	17.2	25.8	12.0	10.3	0.0	0.0	130.6
02/16/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	51.6	0.0	3.4	0.0	0.0	0.0	13.8	25.8	13.8	10.3	0.0	0.0	127.3
02/17/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	51.6	0.0	5.2	0.0	0.0	0.0	12.0	25.8	12.0	10.3	0.0	0.0	127.2
02/18/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	44.7	0.0	3.4	0.0	0.0	0.0	13.8	25.8	17.2	10.3	0.0	0.0	123.8
02/19/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	37.8	0.0	5.2	0.0	0.0	0.0	12.0	25.8	17.2	10.3	0.0	0.0	118.6
02/20/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	12.0	0.0	0.0	0.0	37.8	0.0	5.2	0.0	0.0	0.0	15.3	25.8	17.2	10.3	0.0	0.0	125.3
02/21/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	41.3	0.0	6.9	0.0	0.0	0.0	17.2	25.8	17.2	10.3	0.0	0.0	132.4
02/22/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	44.7	0.0	5.2	0.0	0.0	0.0	18.9	25.8	17.2	10.3	0.0	0.0	134.1
02/23/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	1.7	39.6	0.0	3.4	0.0	0.0	0.0	17.2	25.8	17.2	10.3	0.0	0.0	129.0
02/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	37.8	0.0	5.2	0.0	0.0	0.0	17.2	25.8	17.2	12.0	0.0	0.0	129.0
02/25/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	12.0	0.0	0.0	1.7	37.8	0.0	8.6	0.0	0.0	0.0	17.2	25.8	17.2	13.8	0.0	0.0	135.8
02/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	39.6	0.0	8.6	0.0	0.0	0.0	13.8	25.8	17.2	13.8	0.0	0.0	130.8
02/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	1.7	61.9	0.0	8.6	0.0	0.0	0.0	13.8	20.4	17.2	12.0	0.0	0.0	147.6
02/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	66.9	0.0	5.2	1.7	0.0	0.0	12.0	20.6	17.2	10.3	0.0	0.0	145.9
Well Total	6.8	0.0	0.0	0.0	0.0	5.1	0.0	227.2	0.0	0.0	13.6	928.5	0.0	103.0	1.7	0.0	0.0	359.1	789.2	435.2	319.8	0.0	0.0	3189.2

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:
PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW19, PW22, PW23, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	December 20 2000		January 29 2001		February 19 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	----	1161.64	----	1161.30	----	1161.10
PW02	----	Frozen	----	Frozen	----	Frozen
PW03	----	1161.84	0.01	1161.87	----	1161.26
PW3S	----	----	0.11	1158.54	----	----
PW04	0.65	1155.64	0.68	1154.17	0.92	1154.79
PW05	0.25	1157.22	0.72	1156.56	1.02	1155.78
PW06	----	----	0.49	1160.32	----	----
PW07	----	1156.37	0.04	1156.00	0.09	1156.00
PW08	----	----	0.30	1159.64	----	----
PW9I	----	----	----	----	----	----
PW9O	----	1160.07	----	1159.84	----	1159.66
PW10	----	1160.05	0.01	1159.88	----	1159.68
PW11	0.73	1153.36	0.88	1153.75	0.69	1154.34
PW12	----	1161.52	0.01	1160.12	----	Frozen
PW13	0.49	1157.45	0.44	1159.25	0.82	1157.07
PW14	----	----	0.04	1159.41	----	----
PW15	0.41	1158.94	0.32	1158.71	0.32	1158.64
PW16	----	1159.23	----	1159.12	----	1160.09
PW17	0.34	1156.94	1.42	1155.90	0.77	1156.31
PW18	1.57	1157.37	0.52	1157.94	0.62	1157.51
PW19	0.41	1157.41	0.36	1157.24	0.31	1157.20
PW20	0.16	1157.95	2.37	1155.72	0.83	1156.77
PW21	0.70	1157.99	0.68	1157.76	0.99	1157.31
PW22	----	1160.23	----	1160.02	----	1159.86
PW23	0.11	1157.43	0.07	1158.13	0.04	1157.97
PW24	0.31	1157.20	1.95	1155.60	1.18	1156.08
PW25	1.49	1155.92	0.84	1156.14	0.38	1156.47
PW26	0.45	1156.04	1.04	1155.23	0.52	1155.56
PW27	1.04	1156.11	1.39	1155.34	0.44	1156.04
PW28	0.06	1160.68	0.04	1160.34	0.06	1160.07
PW29	----	1159.01	0.08	1159.15	0.09	1158.37
P01	0.26	1159.44	0.26	1159.28	0.23	1159.12
OW01	----	----	----	1161.78	----	----
W01A	----	1162.33	----	1161.91	----	1161.68
W01B	----	----	----	1161.88	----	----
W02	0.38	1161.42	0.51	1160.91	0.55	1160.63
W03A	0.60	1159.04	0.66	1158.74	0.58	1158.76
W03B	----	1160.80	----	1160.65	----	1160.54
W04A	0.13	1160.90	0.30	1160.49	0.42	1160.24
W04B	----	----	0.11	1160.64	----	----
W05	0.60	1159.18	0.36	1159.27	0.73	1158.69
W06R	0.23	1161.97	0.26	1161.56	0.24	1161.34
W07	----	----	0.24	1161.21	----	----
W08	----	----	----	1170.47	----	----
W09	----	----	----	1161.18	----	----
W10A	----	----	----	1160.71	----	----
W10B	----	----	----	1160.73	----	----
W11	----	----	----	1160.61	----	----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	December 20 2000		January 29 2001		February 19 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	1160.35	-----	-----
W13	-----	1160.93	-----	1160.77	-----	1160.76
W14	-----	-----	-----	1159.45	-----	-----
W16	-----	-----	-----	1160.99	-----	-----
W17	-----	-----	0.53	1159.04	-----	-----
W18	-----	-----	-----	1160.68	-----	-----
W19	-----	-----	0.01	1161.24	-----	-----
W21	-----	-----	-----	1160.66	-----	-----
W22	0.13	1160.89	0.11	1159.76	0.08	1159.71
W23	-----	-----	-----	1160.57	-----	-----
W24A	-----	-----	-----	1160.57	-----	-----
W25	-----	1162.26	-----	1161.87	-----	1161.65
W26	-----	-----	-----	1160.65	-----	-----
W27	-----	-----	-----	1160.74	-----	-----
W28	-----	-----	-----	1160.82	-----	-----
W29	-----	-----	-----	1160.70	-----	-----
W30	0.70	1158.94	0.46	1159.01	0.49	1158.82
W31	-----	-----	-----	1160.79	-----	-----
W32	-----	-----	-----	1160.80	-----	-----
W33	-----	-----	0.28	1160.20	-----	-----
W34	0.27	1156.98	0.13	1156.85	0.13	1156.74
W35	0.26	1159.69	0.39	1159.31	0.36	1159.24
W36	-----	1160.65	-----	1160.43	-----	1160.16
W39	-----	-----	0.06	1160.46	-----	-----
W40	-----	-----	0.57	1159.70	-----	-----
W41	-----	1161.09	-----	1160.87	-----	1160.73
W42	-----	-----	0.10	1161.10	-----	-----
W44	0.43	1159.65	0.40	1159.49	0.40	1159.33
W45	0.10	1159.97	0.05	1159.80	0.04	1159.65
W46	0.53	1159.05	0.77	1158.98	0.24	1158.95
W47	0.95	1154.69	0.77	1154.71	0.68	1154.75
W48	0.07	1155.22	0.05	1154.96	0.07	1154.85
W49	0.44	1155.69	0.39	1155.47	0.40	1155.39
W66	-----	1162.12	-----	1161.72	-----	1161.51
W67	-----	1162.08	-----	1161.69	-----	1161.47
W68A	-----	-----	0.43	1161.39	-----	-----
W68B	-----	-----	0.01	1161.70	-----	-----
W69	0.71	1159.97	0.47	1159.96	0.61	1159.68
W70B	-----	-----	-----	1161.42	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:

1. ft msl = feet mean sea level
2. PW90 denotes the outer well and PW9I denotes the inner well

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

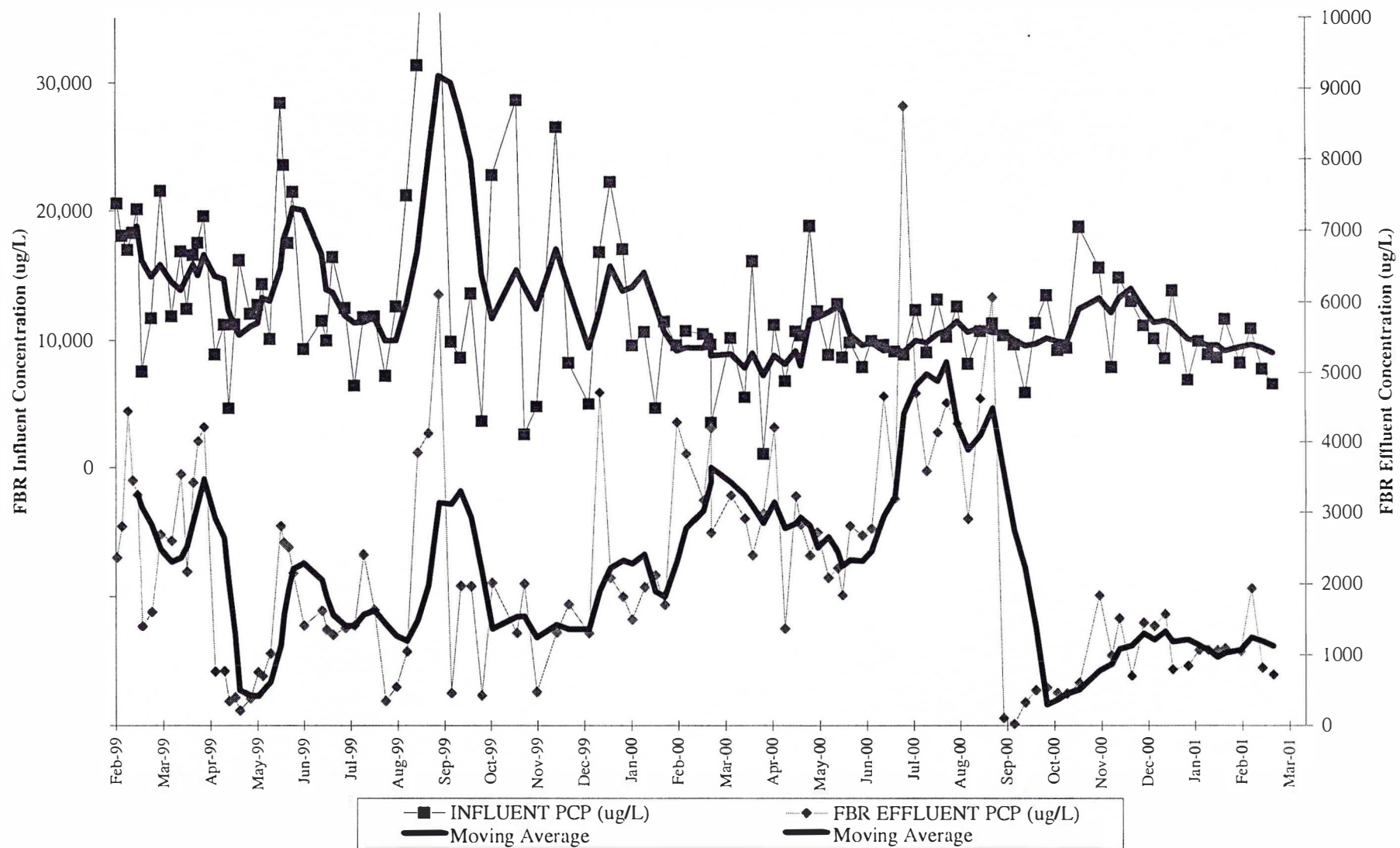
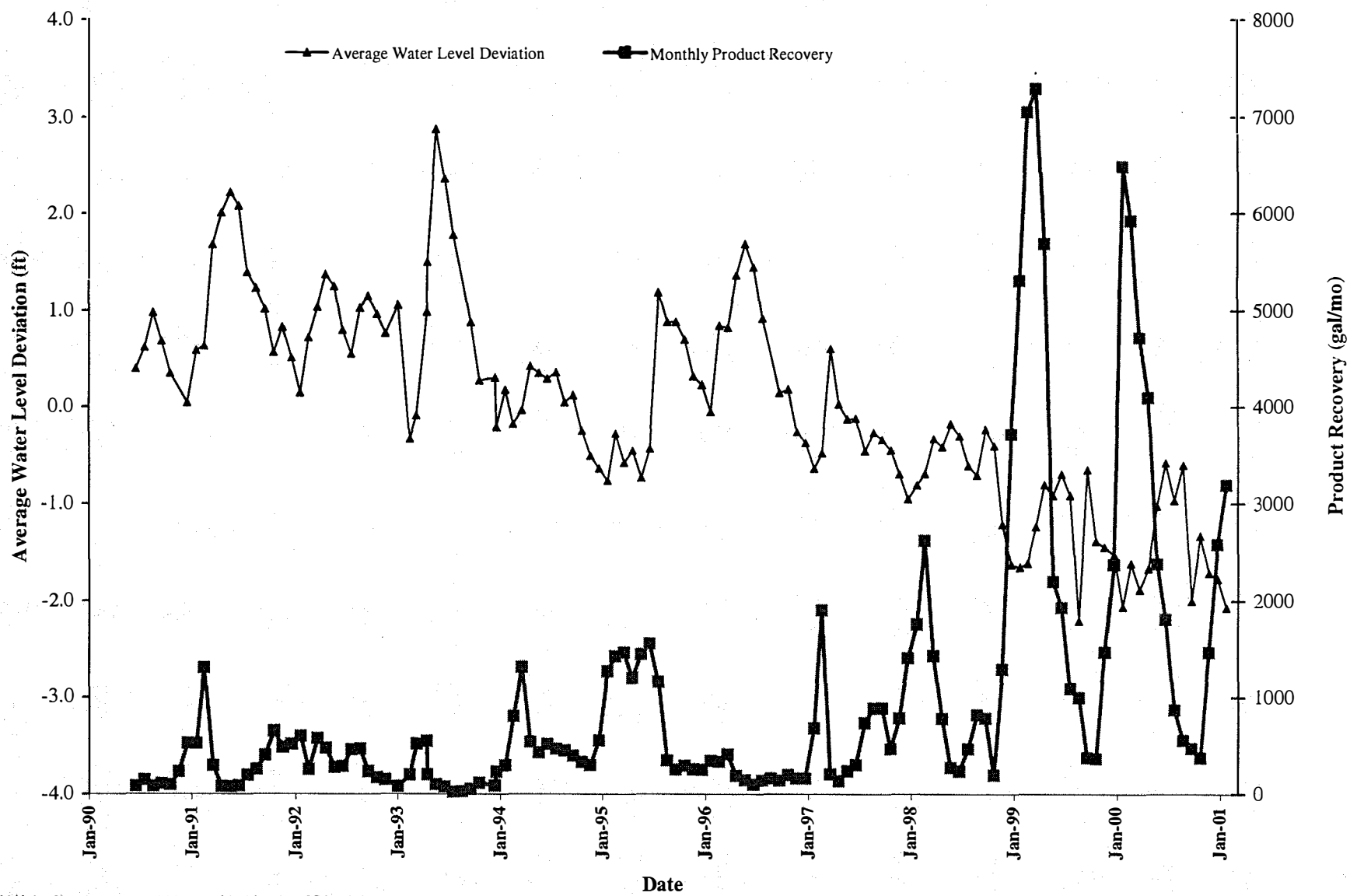
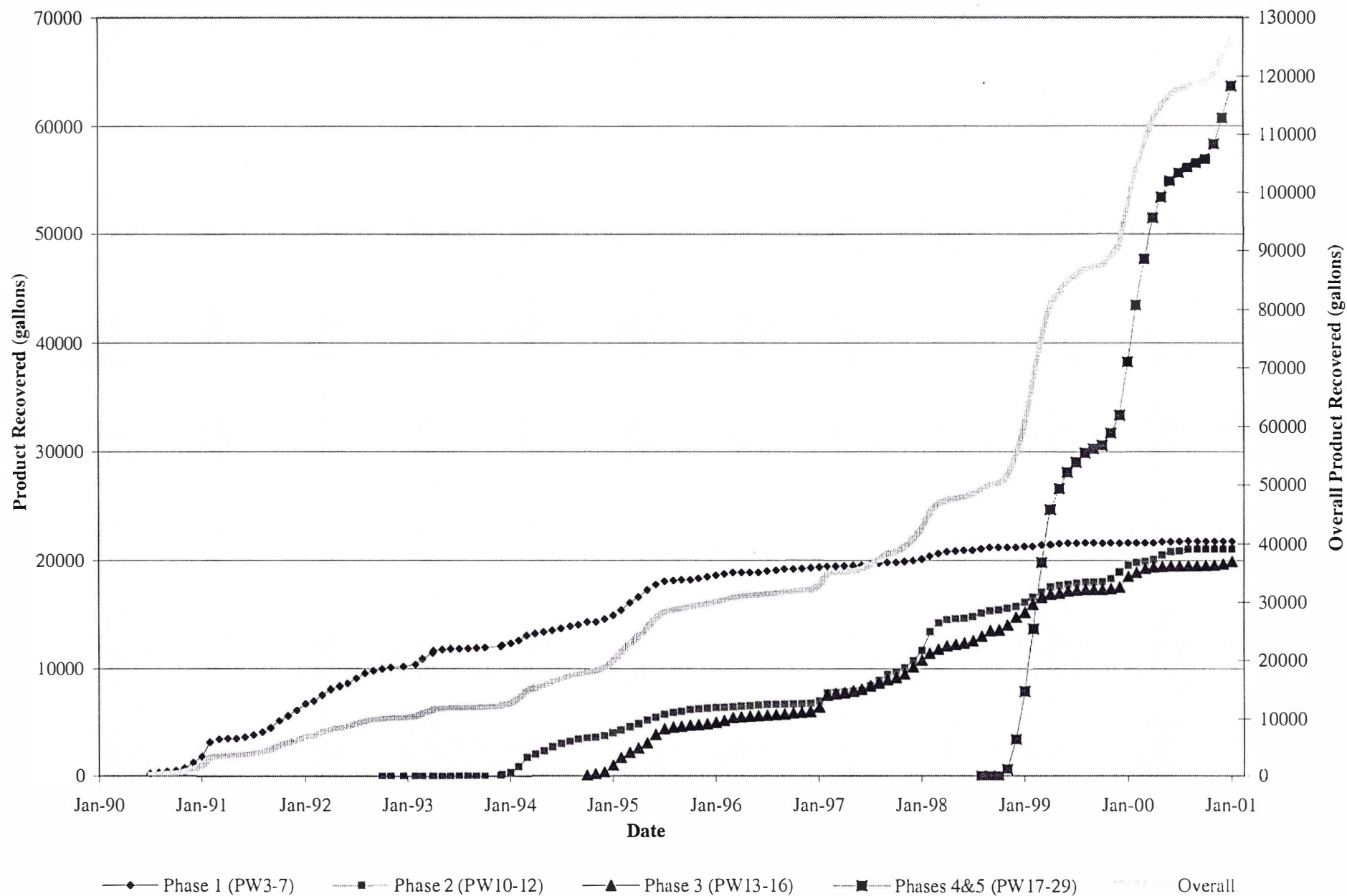


FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



N:\jobs\Wauleco\onm1999\monthly kjq.xls(FIG2wtl\l'
 2082336.06160101

FIGURE 3
Cumulative Product Recovery by Phase and Overall





MONTGOMERY WATSON

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WAUSAU DNR

February 16, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the January Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JANUARY 2001**

SUMMARY OF JANUARY 2001 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 9 ug/L for the month of January, with a maximum single day concentration of 17 ug/L on January 16, 2001.

As discussed in the last monthly report, laboratory results from the December 2000 sampling were not available due to late delivery of the samples to the laboratory by the courier. These were re-sampled in late December and are included in this report. The laboratory result for PCP in the system effluent for December was 8 ug/L on December 29, 2000. The on-site result for the same period ranged from 7 to 9 ug/L. All results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on December 29, 2000 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was <0.12 ug/L.

Laboratory results for January were not available as of the date of this report due to late delivery of the laboratory's PCP reference standards. Results from this sampling and the February sampling will both be presented in the February 2001 monthly report.

PCP influent concentrations ranged from 8628 ug/L to 11,659 ug/L during January (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR influent and effluent remained generally stable in January. The average PCP removal efficiency for the FBR during January was 89% compared to an average of 73% during the previous year.

Daily groundwater flow through the treatment system (Table 2) averaged 53 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since January 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site continued to decrease in January. Product

recovery for January was 2582 gallons, up significantly from 1468 gallons in December. By comparison, total product recovery was 2378 gallons in January 2000.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

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

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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	12/29/00	12	4				<	
Chemical Oxygen Demand	mg/L	12/29/00	42	42				25	
Chloride	mg/L	12/29/00	218	233				230	
Dissolved Oxygen	mg/L	01/05/01	7.5	3.9	4.4				
	mg/L	01/11/01	7	3.1	4				
	mg/L	01/17/01	7.4	3.2	4.6				
	mg/L	01/22/01	6.5	2.8	3.7				
Nitrogen, Ammonia	mg/L	01/05/01	2.5	0.4	0.4				
	mg/L	01/11/01	2.5	0.8	0.8				
	mg/L	01/17/01	2.5	0.4	0.3				
	mg/L	01/22/01	2.5	1	0.8				
Nitrogen, Nitrate	mg/L	01/05/01	<	1	<				
Nitrogen, Nitrate	mg/L	01/11/01	<	1	<				
	mg/L	01/17/01	<	<	<				
	mg/L	01/22/01	<	0.1	<				
Nitrogen, Nitrate + Nitrite	mg/L	12/29/00	0.69	1.44				0.59	
Nitrogen, Total Kjeldahl	mg/L	12/29/00	1.54	0.62				0.28	
Pentachlorophenol-Screen	µg/L	01/01/01						7	
	µg/L	01/02/01						7	
	µg/L	01/03/01						5	
	µg/L	01/04/01						5	
	µg/L	01/05/01	9934	1069	613			7	
	µg/L	01/06/01						10	
	µg/L	01/07/01						10	
	µg/L	01/08/01						10	
	µg/L	01/09/01						11	
	µg/L	01/10/01						14	
	µg/L	01/11/01	8870	1069	798			10	
	µg/L	01/12/01						10	
	µg/L	01/13/01						10	
	µg/L	01/14/01						10	
	µg/L	01/15/01						10	
	µg/L	01/16/01						17	
	µg/L	01/17/01	8628	1064	691			16	
	µg/L	01/18/01						11	
	µg/L	01/19/01						10	
	µg/L	01/20/01						9	
	µg/L	01/21/01						6	
	µg/L	01/22/01	11659	1094	926			6	
	µg/L	01/23/01						6	

TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters 1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Pentachlorophenol-Screen	µg/L	01/24/01						9	
	µg/L	01/25/01						9	
	µg/L	01/26/01						7	
	µg/L	01/27/01						9	
	µg/L	01/28/01						9	
	µg/L	01/29/01						9	
	µg/L	01/30/01						2	
	µg/L	01/31/01						5	
pH	S.U.	01/05/01	6.2	6.25	6.3				
	S.U.	01/11/01	6.2	6.3	6.4				
	S.U.	01/17/01	6.4	6.4	6.55				
	S.U.	01/22/01	6.25	6.3	6.4				
Phosphorus, Ortho	mg/L	12/29/00	0.51	0.42				0.39	
Phosphorus, Phosphate	mg/L	01/05/01	1.5	1.5	1.5				
	mg/L	01/11/01	1.5	1.5	1.5				
	mg/L	01/17/01	1.5	1	1				
	mg/L	01/22/01	1.5	1	1				
Solids, Total Suspended	mg/L	12/29/00	5	16		11	4	<	
Mercury	µg/L	12/29/00	0.33	0.27				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	12/29/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	12/29/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	12/29/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	12/29/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	12/29/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	12/29/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	12/29/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	12/29/00	<	<	<	<	<	<	5.3
Pentachlorophenol	µg/L	12/29/00	8700	760	690	580	340	7.9	8.6
Phenol	µg/L	12/29/00	<	<	<	<	<	<	<

TABLE 2
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
01/01/01	53.72	44.35	40,715,716
01/02/01	53.55	43.90	40,778,936
01/03/01	53.83	43.87	40,842,106
01/04/01	53.26	43.81	40,905,199
01/05/01	53.72	43.68	40,968,091
01/06/01	53.44	43.49	41,030,723
01/07/01	52.85	43.36	41,093,164
01/08/01	52.99	43.15	41,155,302
01/09/01	53.16	43.67	41,218,189
01/10/01	53.26	43.67	41,281,073
01/11/01	53.00	42.36	41,342,072
01/12/01	52.93	44.33	41,405,901
01/13/01	53.12	43.34	41,468,308
01/14/01	52.57	42.99	41,530,211
01/15/01	50.91	41.15	41,589,464
01/16/01	52.36	42.28	41,650,344
01/17/01	52.84	43.83	41,713,463
01/18/01	53.03	43.79	41,776,514
01/19/01	52.95	44.08	41,839,994
01/20/01	53.27	44.41	41,903,944
01/21/01	53.15	45.69	41,969,739
01/22/01	53.02	44.21	42,033,405
01/23/01	52.88	44.94	42,098,112
01/24/01	53.10	44.85	42,162,696
01/25/01	53.05	46.53	42,229,698
01/26/01	52.97	44.08	42,293,171
01/27/01	52.56	46.03	42,359,458
01/28/01	52.70	43.81	42,422,546
01/29/01	51.81	43.01	42,484,479
01/30/01	51.88	42.91	42,546,265
01/31/01	51.95	44.52	42,610,379

Average	52.90	43.87	
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Total ⁽²⁾ :			1,957,894
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Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (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	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
01/01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	10.3	25.8	0.0	0.0	75.6
01/02/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	13.8	25.8	0.0	0.0	80.8
01/03/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	25.8	12.0	25.8	0.0	0.0	77.4
01/04/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	12.0	25.8	0.0	0.0	79.0
01/05/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	13.8	25.8	0.0	0.0	82.6
01/06/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	17.2	25.8	0.0	0.0	87.7
01/07/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	17.2	25.8	0.0	0.0	87.7
01/08/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	8.6	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	1.7	25.8	17.2	25.8	0.0	0.0	91.1
01/09/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	1.7	25.8	13.8	25.8	0.0	0.0	86.0
01/10/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.2	0.0	0.0	1.7	8.6	0.0	0.0	0.0	0.0	0.0	3.4	25.8	12.0	25.8	0.0	0.0	84.2
01/11/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	1.7	8.6	0.0	0.0	0.0	0.0	0.0	1.7	25.8	12.0	25.8	0.0	0.0	79.0
01/12/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	1.7	25.8	13.8	25.8	0.0	0.0	80.8
01/13/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	25.8	12.0	25.8	0.0	0.0	79.1
01/14/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	1.7	25.8	13.8	25.8	0.0	0.0	82.5
01/15/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	1.7	13.8	0.0	0.0	0.0	0.0	0.0	0.0	25.8	12.0	25.8	0.0	0.0	82.5
01/16/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.4	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	0.0	1.7	25.8	13.8	25.8	0.0	0.0	85.9
01/17/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	25.8	13.8	25.8	0.0	0.0	84.4
01/18/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.2	0.0	0.0	1.7	13.8	0.0	1.7	0.0	0.0	0.0	3.4	17.2	12.0	17.2	0.0	0.0	73.9
01/19/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	0.0	1.7	17.2	13.8	17.2	0.0	0.0	68.8
01/20/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	3.4	17.2	12.0	17.2	0.0	0.0	70.5
01/21/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	0.0	3.4	25.8	17.2	17.2	0.0	0.0	82.5
01/22/01	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.4	0.0	0.0	1.7	25.8	0.0	1.7	0.0	0.0	0.0	3.4	25.8	17.2	17.2	0.0	1.7	99.6
01/23/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	5.2	25.8	17.2	17.2	0.0	0.0	98.0
01/24/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	6.9	25.8	13.8	17.2	0.0	1.7	98.1
01/25/01	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	1.7	25.8	0.0	0.0	0.0	0.0	0.0	6.9	25.8	12.0	17.2	0.0	1.7	96.2
01/26/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	6.9	25.8	12.0	17.2	0.0	0.0	79.1
01/27/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	6.9	25.8	13.8	12.0	0.0	0.0	77.4
01/28/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	6.9	25.8	17.2	12.0	0.0	0.0	79.1
01/29/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.0	6.9	25.8	17.2	10.3	0.0	0.0	86.0
01/30/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	6.9	25.8	17.2	8.6	0.0	0.0	86.0
01/31/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	25.8	0.0	0.0	0.0	0.0	0.0	6.9	25.8	12.0	8.6	0.0	0.0	80.8
Well Total	5.1	0.0	0.0	0.0	0.0	13.6	0.0	111.7	0.0	0.0	11.9	474.6	0.0	17.0	0.0	0.0	0.0	89.3	774.0	435.1	644.9	0.0	5.1	2582.3

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:

PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW19, PW21, PW22, PW23, and PW28.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	November 27 2000		December 20 2000		January 29 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1161.85	-----	1161.64	-----	1161.30
PW02	-----	1161.86	-----	Frozen	-----	Frozen
PW03	-----	1162.03	-----	1161.84	0.01	1161.87
PW3S	-----	-----	-----	-----	0.11	1158.54
PW04	0.30	1156.80	0.65	1155.64	0.68	1154.17
PW05	0.20	1157.62	0.25	1157.22	0.72	1156.56
PW06	-----	-----	-----	-----	0.49	1160.32
PW07	-----	1156.98	-----	1156.37	0.04	1156.00
PW08	-----	-----	-----	-----	0.30	1159.64
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.37	-----	1160.07	-----	1159.84
PW10	-----	1160.36	-----	1160.05	0.01	1159.88
PW11	0.27	1155.44	0.73	1153.36	0.88	1153.75
PW12	-----	1161.70	-----	1161.52	0.01	1160.12
PW13	0.32	1158.03	0.49	1157.45	0.44	1159.25
PW14	-----	-----	-----	-----	0.04	1159.41
PW15	0.44	1159.61	0.41	1158.94	0.32	1158.71
PW16	-----	1159.43	-----	1159.23	-----	1159.12
PW17	0.10	1157.59	0.34	1156.94	1.42	1155.90
PW18	0.48	1158.79	1.57	1157.37	0.52	1157.94
PW19	0.33	1158.27	0.41	1157.41	0.36	1157.24
PW20	0.83	1158.06	0.16	1157.95	2.37	1155.72
PW21	0.48	1158.38	0.70	1157.99	0.68	1157.76
PW22	-----	1160.50	-----	1160.23	-----	1160.02
PW23	0.22	1157.91	0.11	1157.43	0.07	1158.13
PW24	0.89	1157.19	0.31	1157.20	1.95	1155.60
PW25	0.36	1157.50	1.49	1155.92	0.84	1156.14
PW26	0.43	1156.40	0.45	1156.04	1.04	1155.23
PW27	0.69	1159.05	1.04	1156.11	1.39	1155.34
PW28	0.19	1160.71	0.06	1160.68	0.04	1160.34
PW29	0.49	1159.06	-----	1159.01	0.08	1159.15
P01	0.23	1159.83	0.26	1159.44	0.26	1159.28
OW01	-----	-----	-----	-----	-----	1161.78
W01A	-----	1162.56	-----	1162.33	-----	1161.91
W01B	-----	-----	-----	-----	-----	1161.88
W02	0.42	1161.53	0.38	1161.42	0.51	1160.91
W03A	0.54	1159.47	0.60	1159.04	0.66	1158.74
W03B	-----	1160.91	-----	1160.80	-----	1160.65
W04A	0.22	1161.01	0.13	1160.90	0.30	1160.49
W04B	-----	-----	-----	-----	0.11	1160.64
W05	0.41	1159.70	0.60	1159.18	0.36	1159.27
W06R	0.19	1162.21	0.23	1161.97	0.26	1161.56
W07	-----	-----	-----	-----	0.24	1161.21
W08	-----	-----	-----	-----	-----	1170.47
W09	-----	-----	-----	-----	-----	1161.18
W10A	-----	-----	-----	-----	-----	1160.71
W10B	-----	-----	-----	-----	-----	1160.73
W11	-----	-----	-----	-----	-----	1160.61

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	November 27 2000		December 20 2000		January 29 2001	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	----	----	----	----	----	1160.35
W13	----	1160.93	----	1160.93	----	1160.77
W14	----	----	----	----	----	1159.45
W16	----	----	----	----	----	1160.99
W17	----	----	----	----	0.53	1159.04
W18	----	----	----	----	----	1160.68
W19	----	----	----	----	0.01	1161.24
W21	----	----	----	----	----	1160.66
W22	0.10	1160.14	0.13	1160.89	0.11	1159.76
W23	----	----	----	----	----	1160.57
W24A	----	----	----	----	----	1160.57
W25	----	1162.50	----	1162.26	----	1161.87
W26	----	----	----	----	----	1160.65
W27	----	----	----	----	----	1160.74
W28	----	----	----	----	----	1160.82
W29	----	----	----	----	----	1160.70
W30	0.47	1159.51	0.70	1158.94	0.46	1159.01
W31	----	----	----	----	----	1160.79
W32	----	----	----	----	----	1160.80
W33	----	----	----	----	0.28	1160.20
W34	0.20	1157.30	0.27	1156.98	0.13	1156.85
W35	0.32	1159.96	0.26	1159.69	0.39	1159.31
W36	----	1160.91	----	1160.65	----	1160.43
W39	----	----	----	----	0.06	1160.46
W40	----	----	----	----	0.57	1159.70
W41	----	1161.23	----	1161.09	----	1160.87
W42	----	----	----	----	0.10	1161.10
W44	0.31	1160.08	0.43	1159.65	0.40	1159.49
W45	0.09	1160.31	0.10	1159.97	0.05	1159.80
W46	0.67	1159.35	0.53	1159.05	0.77	1158.98
W47	1.00	1154.92	0.95	1154.69	0.77	1154.71
W48	0.02	1156.29	0.07	1155.22	0.05	1154.96
W49	0.16	1156.56	0.44	1155.69	0.39	1155.47
W66	----	1162.29	----	1162.12	----	1161.72
W67	----	1162.25	----	1162.08	----	1161.69
W68A	----	----	----	----	0.43	1161.39
W68B	----	----	----	----	0.01	1161.70
W69	0.87	1160.10	0.71	1159.97	0.47	1159.96
W70B	----	----	----	----	----	1161.42
River	----	No Gage	----	No Gage	----	No Gage

Notes:

ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

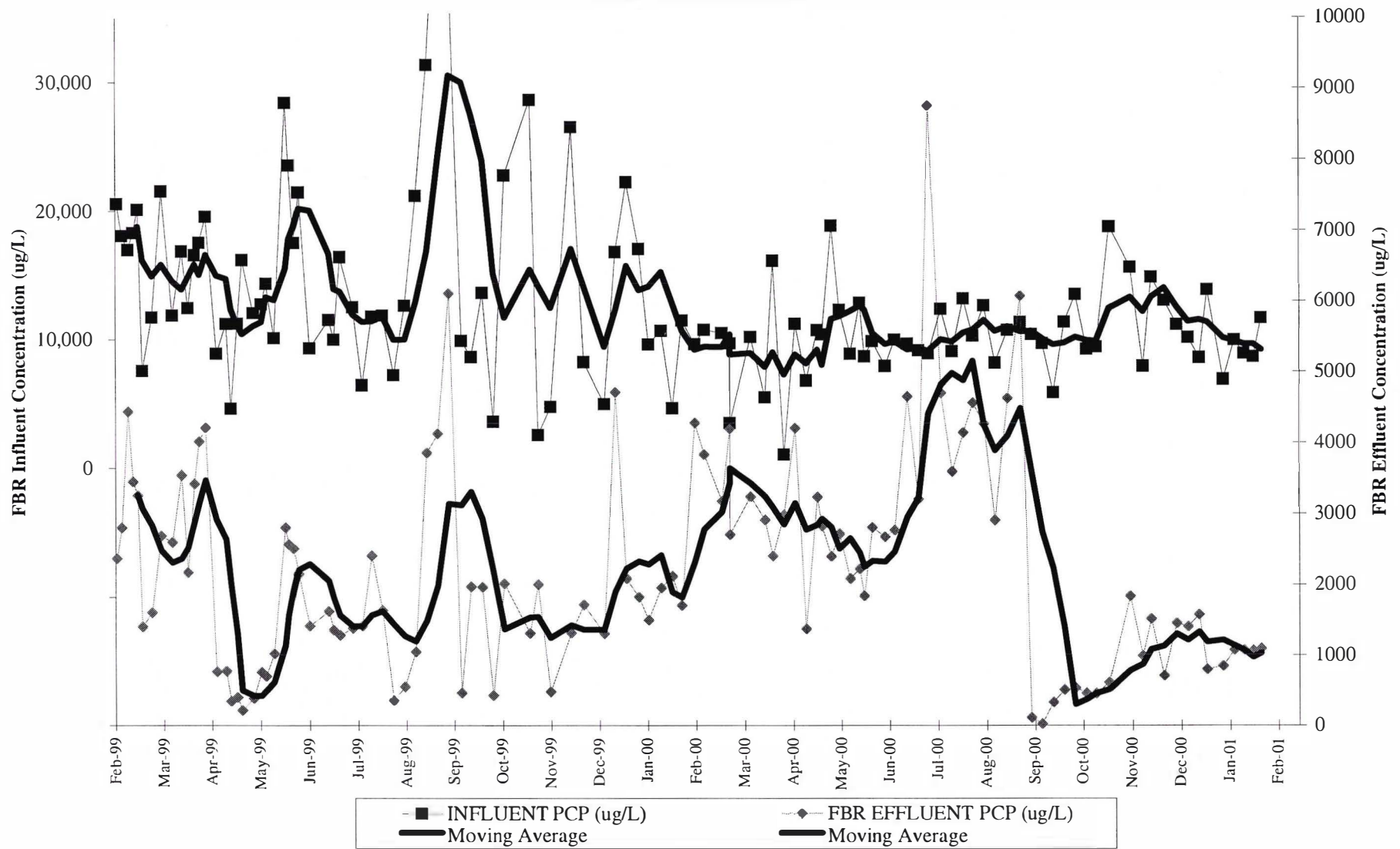
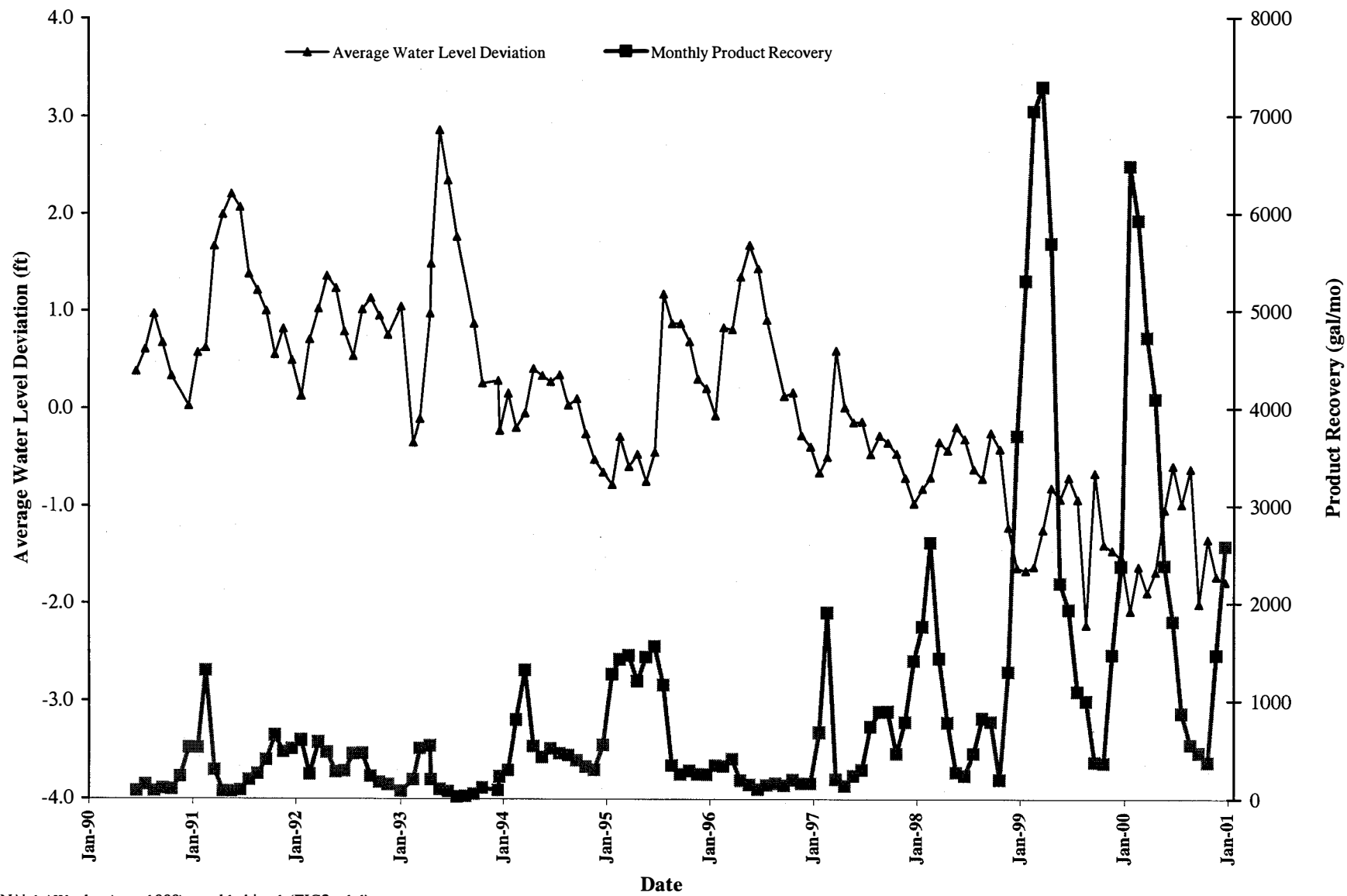
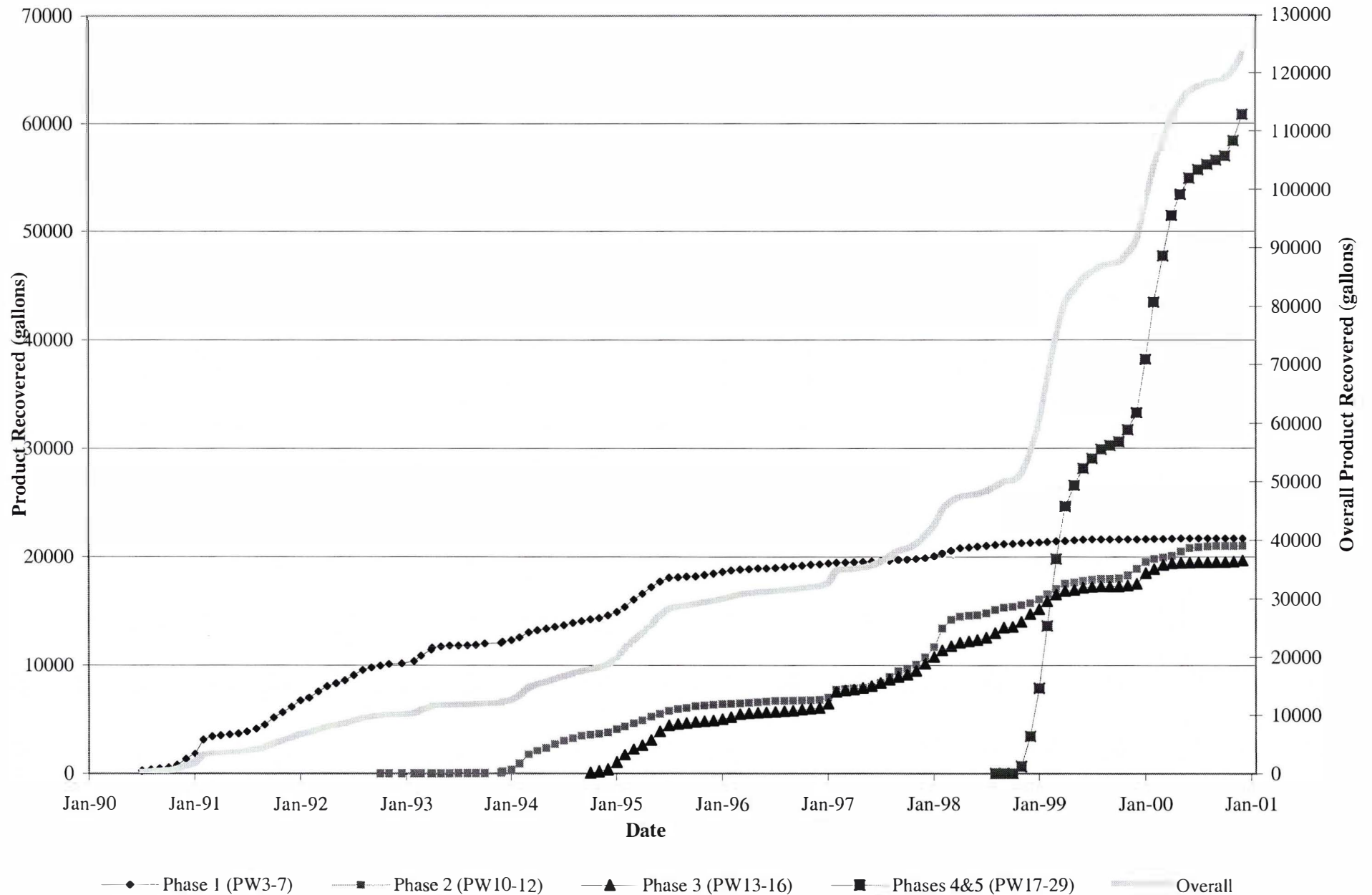


FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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FIGURE 3
Cumulative Product Recovery by Phase and Overall





MONTGOMERY WATSON

January 16, 2001

Mr. John Grump
Wisconsin Department of Natural Resources
1300 West Claremont Avenue
Eau Claire, Wisconsin 54702-4001

RECEIVED

JAN 18 2001

WATSON

Re: Spill Report
Wauleco Remediation Site
125 Rosecrans Street, Wausau, Wisconsin

Dear Mr. Grump:

This letter describes the circumstances and response actions to a spill of recovered free product from the Wauleco Remediation Site in Wausau, Wisconsin. Pertinent information regarding the spill is presented below:

Site Name & Address: Wauleco Remediation Site, 125 Rosecrans Street, Wausau 54402

Location Onsite: The site includes numerous pumping wells designed to recover free product from the water table and transfer it to drums located within enclosures at each well head. The spill occurred from the drum located at pumping well PW-13.

Time of Spill: The spill occurred during the early morning hours of January 4, 2001. The spill was discovered approximately 8 AM by the Site Operator, Tom Dushek.

Chemical & Quantity: The free product recovered from the water table consists of mineral spirits containing less than 1 percent pentachlorophenol and trace quantities of mercury. This free product is considered a hazardous waste due to ignitability and toxicity (RCRA waste codes D001, D009, and D037). Based on the recorded product level in the drum from the previous evening, it is estimated that 40 gallons of free product were spilled.

Cause of Discharge: When a product drum is full at the well head, the system is designed to close a solenoid that shuts off the compressed air powering the product pump. Moisture in the air line to the product pump at well PW-13 caused the solenoid to freeze in the open position, allowing the pump to run constantly and bring in water, which displaced the product in the drum and resulted in spilled product onto the cement pad and the adjacent paved surface. The adjacent surface was covered with snow and ice, which absorbed much of the spill.

Response Actions: The compressed air line that powers the product pump was shut off upon discovery of the problem. The water in the drum was pumped back into the recovery well and then to the onsite groundwater treatment system.

The saturated ice and snow containing the spilled product was shoveled into drums, along with gravel and dirt that was loosened from the pavement. The affected area was approximately 20 by 30 feet. Vermiculite was used to soak up small areas of pooled product on top of the chipseal pavement, and was also shoveled into drums. The drums were moved into a heated area and the snow/product mixture was allowed to thaw. Upon thawing, the water pumped into the onsite treatment system. Approximately 30 gallons of free product remained in the drum.

Impacts of Spill: The spill was onto chipseal pavement and concrete, and was not near any storm drains or runoff areas. Based on the estimated spill volume and recovered amount, approximately 10 gallons of product remain in the near-surface chipseal pavement. Staining of the surface is obvious.

Destination of Recovered Materials: The recovered soils and drummed liquid waste will be disposed of as a hazardous waste at the Enseco facility in El Dorado, Arkansas along with our usual shipments of waste. The recovered water that resulted from the melting of the shoveled snow was separated from the product and was treated in the onsite groundwater treatment system.

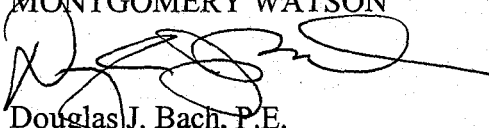
Need for Further Remediation: The possible need to excavate near-surface soils in the stained area will be evaluated once the frost in the ground has melted.

Prevention of Future Incidents: A repetition of the current incident can be avoided by preventing moisture from accumulating in the compressed air lines. The air dryer for the compressed air system was overhauled in November 2000 and compressed air supplied to the system since that time has been virtually moisture-free. The current incident was caused by residual moisture introduced to the lines prior to the servicing of the air dryer. Since the incident, all compressed air lines have been blown out to remove any remaining residual moisture.

Please call me at 608.231.4747 or the Site Operator, Mr. Tom Dushek, at 715.848.4878 if you have questions regarding this report.

Sincerely,

MONTGOMERY WATSON



Douglas J. Bach, P.E.
Project Manager

cc: T. Dushek, Montgomery Watson
N.M. Cira, Montgomery Watson
R. Brandt, Wauleco
P. Peshek, DeWitt, Ross & Stevens

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MONTGOMERY WATSON

RECEIVED

JAN 18 2001

WAUSAU DNR

January 16, 2001

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

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

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the December Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The 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

Patrick H. Lytle
Environmental Engineer



Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek - MW Wauleco (1)

PHL/phl/DJB
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**WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
DECEMBER 2000**

SUMMARY OF DECEMBER 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 4 ug/L for the month of December, with a maximum single day concentration of 11 ug/L on December 27, 2000. Laboratory results for December were not available as of the date of this report due to late delivery of the samples to the laboratory by the courier. This caused the samples to exceed their holding time limits and prompted re-sampling in late December. Results from this sampling and the January sampling will both be presented in the January 2001 monthly report. PCP effluent results were significantly lower than those noted in November and reflect the system returning to normal operation, following the upsets discussed in the November monthly report.

PCP influent concentrations ranged from 6887 ug/L to 13,874 ug/L during December (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent remained generally stable in December. The average PCP removal efficiency for the FBR during December was 87% compared to an average of 72% during the previous year.

Daily groundwater flow through the treatment system (Table 2) averaged 53 gpm. After being out of service in November, the discharge flowmeter was replaced on December 5. For this reason, discharge flow rates are not available for December 1 through 4. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since December 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased in December, following a slight increase in November. Product recovery for December was 1468 gallons, up significantly from 375 gallons in November. By comparison, total product recovery was 1470 gallons in December 1999.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for October, November, and December are summarized in Table 4.

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TABLE 1

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

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Dissolved Oxygen	mg/L	12/07/00	7.6	4.6	5.2				
	mg/L	12/14/00	7.3	3.9	4.9				
	mg/L	12/19/00	6.8	2.8	4.4				
	mg/L	12/29/00	7.4	3.9	4.8				
Nitrogen, Ammonia	mg/L	12/07/00	3	0.4	0.4				
	mg/L	12/14/00	3	0.4	0.4				
	mg/L	12/19/00	3	0.4	0.3				
	mg/L	12/29/00	3	0.4	0.4				
Nitrogen, Nitrate	mg/L	12/07/00	<	0.2	<				
	mg/L	12/14/00	<	<	<				
	mg/L	12/19/00	<	<	<				
	mg/L	12/29/00	<	0.1	<				
Pentachlorophenol-Screen	µg/L	12/01/00							2
	µg/L	12/02/00							2
	µg/L	12/03/00							2
	µg/L	12/04/00							2
	µg/L	12/05/00							3
	µg/L	12/06/00							3
	µg/L	12/07/00	10123	1405	872				2
	µg/L	12/08/00							2
	µg/L	12/09/00							2
	µg/L	12/10/00							2
	µg/L	12/11/00							2
	µg/L	12/12/00							3
	µg/L	12/13/00							2
	µg/L	12/14/00	8570	1574	842				2
	µg/L	12/15/00							3
	µg/L	12/16/00							2
	µg/L	12/17/00							2
	µg/L	12/18/00							2
	µg/L	12/19/00	13874	797	1108				3
	µg/L	12/20/00							4
	µg/L	12/21/00							7
	µg/L	12/22/00							5
	µg/L	12/23/00							6
	µg/L	12/24/00							6
	µg/L	12/25/00							10
	µg/L	12/26/00							10
	µg/L	12/27/00							11
	µg/L	12/28/00							9
	µg/L	12/29/00	6887	841	314				8
	µg/L	12/30/00							7
	µg/L	12/31/00							7

TABLE 1
Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
pH	S.U.	12/07/00	6.2	6.3	6.4				
	S.U.	12/14/00	6.3	6.35	6.4				
	S.U.	12/19/00	6.25	6.3	6.4				
	S.U.	12/29/00	6.3	6.3	6.4				
Phosphorus, Phosphate	mg/L	12/07/00	1	1	1				
	mg/L	12/14/00	2	1.5	1.5				
	mg/L	12/19/00	2	1.5	1.5				
	mg/L	12/29/00	1.5	1	1				

TABLE 2

**Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin**

Date	Influent Groundwater Flow Rate ⁽¹⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge (gal)
12/01/00	48.57	0.00 ⁽³⁾	38,956,736
12/02/00	47.91	0.00	38,956,736
12/03/00	47.42	0.00	38,956,736
12/04/00	47.19	0.00	38,956,736
12/05/00	48.94	25.87	38,993,987
12/06/00	51.92	41.56	39,053,838
12/07/00	53.59	42.46	39,114,987
12/08/00	53.41	43.02	39,176,938
12/09/00	53.14	42.85	39,238,635
12/10/00	52.57	42.29	39,299,534
12/11/00	52.59	42.03	39,360,050
12/12/00	53.57	42.63	39,421,435
12/13/00	53.52	44.62	39,485,694
12/14/00	54.00	45.42	39,551,098
12/15/00	53.81	45.46	39,616,565
12/16/00	52.89	44.77	39,681,034
12/17/00	52.65	44.02	39,744,417
12/18/00	49.72	40.18	39,802,272
12/19/00	55.33	48.02	39,871,418
12/20/00	55.54	47.00	39,939,102
12/21/00	55.14	46.96	40,006,731
12/22/00	55.28	45.56	40,072,341
12/23/00	55.14	46.62	40,139,475
12/24/00	54.50	45.56	40,205,075
12/25/00	54.54	45.62	40,270,766
12/26/00	50.85	41.95	40,331,175
12/27/00	52.68	43.91	40,394,412
12/28/00	54.00	45.09	40,459,337
12/29/00	53.77	44.94	40,524,049
12/30/00	53.94	44.50	40,588,130
12/31/00	53.90	44.69	40,652,485
Average	52.65	44.30	
Total ⁽²⁾			1,695,749

Footnotes:

- (1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
- (2) Total is the cumulative POTW discharge during the reporting period.
- (3) POTW totalized discharge and flowrates not available for December 1 through 4 due to failure of the effluent flowmeter. This meter was replaced on December 5.

TABLE 3

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

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
12/01/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
12/02/00	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
12/03/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	8.5
12/04/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	10.2
12/05/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	6.8
12/06/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	0.0	0.0	0.0	8.6
12/07/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	6.9
12/08/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	3.4	0.0	0.0	13.6
12/09/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	1.7	5.2	0.0	0.0	13.8
12/10/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	5.2	1.7	5.2	0.0	0.0	17.2
12/11/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	17.2	6.9	20.4	0.0	0.0	49.6
12/12/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	1.7	17.2	6.9	20.4	0.0	0.0	51.4
12/13/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	17.2	6.9	20.4	0.0	0.0	49.6
12/14/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	1.7	25.8	6.9	20.4	0.0	0.0	60.0
12/15/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	25.8	6.9	20.4	0.0	0.0	54.8
12/16/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	17.2	6.9	25.8	0.0	0.0	55.0
12/17/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	17.2	6.9	25.8	0.0	0.0	55.0
12/18/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	1.7	17.2	6.9	25.8	0.0	0.0	58.5
12/19/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	25.8	8.6	25.8	0.0	0.0	67.1
12/20/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	25.8	8.6	25.8	0.0	0.0	68.8
12/21/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	8.6	25.8	0.0	0.0	70.5
12/22/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	8.6	25.8	0.0	0.0	72.2
12/23/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	10.3	25.8	0.0	0.0	84.2
12/24/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	12.0	17.2	0.0	0.0	77.3
12/25/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	34.4	13.8	0.0	0.0	0.0	63.7
12/26/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.4	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	1.7	25.8	13.8	12.0	0.0	0.0	72.2
12/27/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	25.8	12.0	10.3	0.0	0.0	70.3
12/28/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	17.2	12.0	12.0	0.0	0.0	67.0
12/29/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0	17.2	10.3	25.8	0.0	0.0	77.4
12/30/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	1.7	17.2	10.3	25.8	0.0	0.0	70.5
12/31/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	25.8	8.6	25.8	0.0	0.0	74.0
Well Total	0.0	0.0	0.0	0.0	0.0	6.8	0.0	46.4	0.0	0.0	0.0	200.8	0.0	0.0	0.0	0.0	0.0	25.5	517.6	220.1	451.1	0.0	0.0	1468.3

Note:

The following wells' product pumps were not operated this month due to insufficient product thickness:

PW04, PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW17, PW19, PW20, PW21, PW22, PW23, PW28, and PW29.

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	October 18 2000		November 27 2000		December 20 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.38	-----	1161.85	-----	1161.64
PW02	-----	1162.37	-----	1161.86	-----	Frozen
PW03	-----	1162.42	-----	1162.03	-----	1161.84
PW3S	0.05	1159.51	-----	-----	-----	-----
PW04	-----	1158.98	0.30	1156.80	0.65	1155.64
PW05	0.12	1158.10	0.20	1157.62	0.25	1157.22
PW06	0.41	1161.31	-----	-----	-----	-----
PW07	0.05	1161.15	-----	1156.98	-----	1156.37
PW08	0.34	1160.58	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.79	-----	1160.37	-----	1160.07
PW10	-----	1159.87	-----	1160.36	-----	1160.05
PW11	0.74	1154.91	0.27	1155.44	0.73	1153.36
PW12	-----	1162.16	-----	1161.70	-----	1161.52
PW13	0.84	1158.23	0.32	1158.03	0.49	1157.45
PW14	0.12	1160.07	-----	-----	-----	-----
PW15	0.46	1159.47	0.44	1159.61	0.41	1158.94
PW16	-----	1159.54	-----	1159.43	-----	1159.23
PW17	0.15	1159.01	0.10	1157.59	0.34	1156.94
PW18	1.23	1158.36	0.48	1158.79	1.57	1157.37
PW19	0.46	1158.59	0.33	1158.27	0.41	1157.41
PW20	0.61	1158.62	0.83	1158.06	0.16	1157.95
PW21	0.66	1158.64	0.48	1158.38	0.70	1157.99
PW22	-----	1160.94	-----	1160.50	-----	1160.23
PW23	0.18	1157.21	0.22	1157.91	0.11	1157.43
PW24	0.60	1157.71	0.89	1157.19	0.31	1157.20
PW25	0.65	1157.04	0.36	1157.50	1.49	1155.92
PW26	0.50	1156.55	0.43	1156.40	0.45	1156.04
PW27	0.86	1157.21	0.69	1159.05	1.04	1156.11
PW28	0.19	1161.10	0.19	1160.71	0.06	1160.68
PW29	0.28	1159.65	0.49	1159.06	-----	1159.01
P01	0.24	1160.22	0.23	1159.83	0.26	1159.44
OW01	-----	1162.90	-----	-----	-----	-----
W01A	-----	1163.06	-----	1162.56	-----	1162.33
W01B	-----	1163.02	-----	-----	-----	-----
W02	0.45	1161.92	0.42	1161.53	0.38	1161.42
W03A	0.63	1159.46	0.54	1159.47	0.60	1159.04
W03B	-----	1160.99	-----	1160.91	-----	1160.80
W04A	0.06	1161.61	0.22	1161.01	0.13	1160.90
W04B	0.03	1161.62	-----	-----	-----	-----
W05	0.27	1160.25	0.41	1159.70	0.60	1159.18
W06R	0.18	1162.71	0.19	1162.21	0.23	1161.97
W07	0.79	1161.84	-----	-----	-----	-----
W08	-----	1174.25	-----	-----	-----	-----
W09	-----	1161.81	-----	-----	-----	-----
W10A	-----	1160.63	-----	-----	-----	-----
W10B	-----	1160.67	-----	-----	-----	-----
W11	-----	1160.61	-----	-----	-----	-----

TABLE 4
Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	October 18 2000		November 27 2000		December 20 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	----	1160.35	----	----	----	----
W13	----	1160.93	----	1160.93	----	1160.93
W14	----	1159.45	----	----	----	----
W16	----	1161.42	----	----	----	----
W17	0.46	1159.75	----	----	----	----
W18	----	1160.61	----	----	----	----
W19	----	1162.19	----	----	----	----
W21	----	1160.51	----	----	----	----
W22	0.09	1160.41	0.10	1160.14	0.13	1160.89
W23	----	1160.61	----	----	----	----
W24A	----	1160.59	----	----	----	----
W25	----	1163.02	----	1162.50	----	1162.26
W26	----	1160.60	----	----	----	----
W27	----	1161.07	----	----	----	----
W28	----	1160.64	----	----	----	----
W29	----	1160.40	----	----	----	----
W30	0.27	1160.10	0.47	1159.51	0.70	1158.94
W31	----	1160.63	----	----	----	----
W32	----	1160.60	----	----	----	----
W33	0.11	1161.21	----	----	----	----
W34	0.14	1157.77	0.20	1157.30	0.27	1156.98
W35	0.23	1160.43	0.32	1159.96	0.26	1159.69
W36	----	1161.34	----	1160.91	----	1160.65
W39	0.04	1161.40	----	----	----	----
W40	0.56	1150.12	----	----	----	----
W41	----	1165.95	----	1161.23	----	1161.09
W42	0.06	1162.08	----	----	----	----
W44	0.24	1160.52	0.31	1160.08	0.43	1159.65
W45	0.10	1160.73	0.09	1160.31	0.10	1159.97
W46	0.63	1159.72	0.67	1159.35	0.53	1159.05
W47	0.08	1156.13	1.00	1154.92	0.95	1154.69
W48	0.08	1155.85	0.02	1156.29	0.07	1155.22
W49	0.33	1156.38	0.16	1156.56	0.44	1155.69
W66	----	1162.76	----	1162.29	----	1162.12
W67	----	1162.70	----	1162.25	----	1162.08
W68A	0.30	1162.48	----	----	----	----
W68B	----	1162.70	----	----	----	----
W69	0.90	1160.53	0.87	1160.10	0.71	1159.97
W70B	----	1162.51	----	----	----	----
River	----	No Gage	----	No Gage	----	No Gage

Notes:

ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

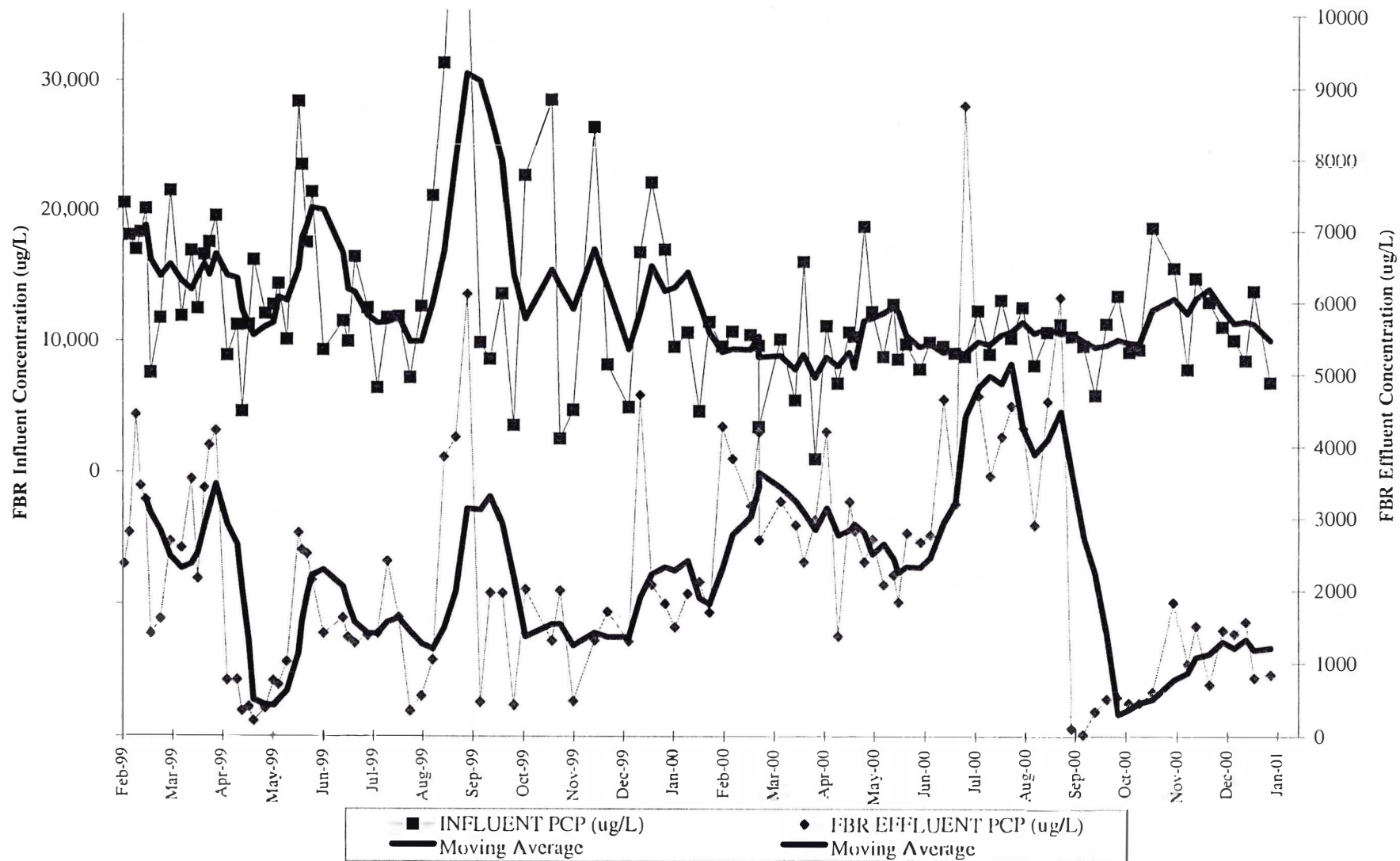


FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates

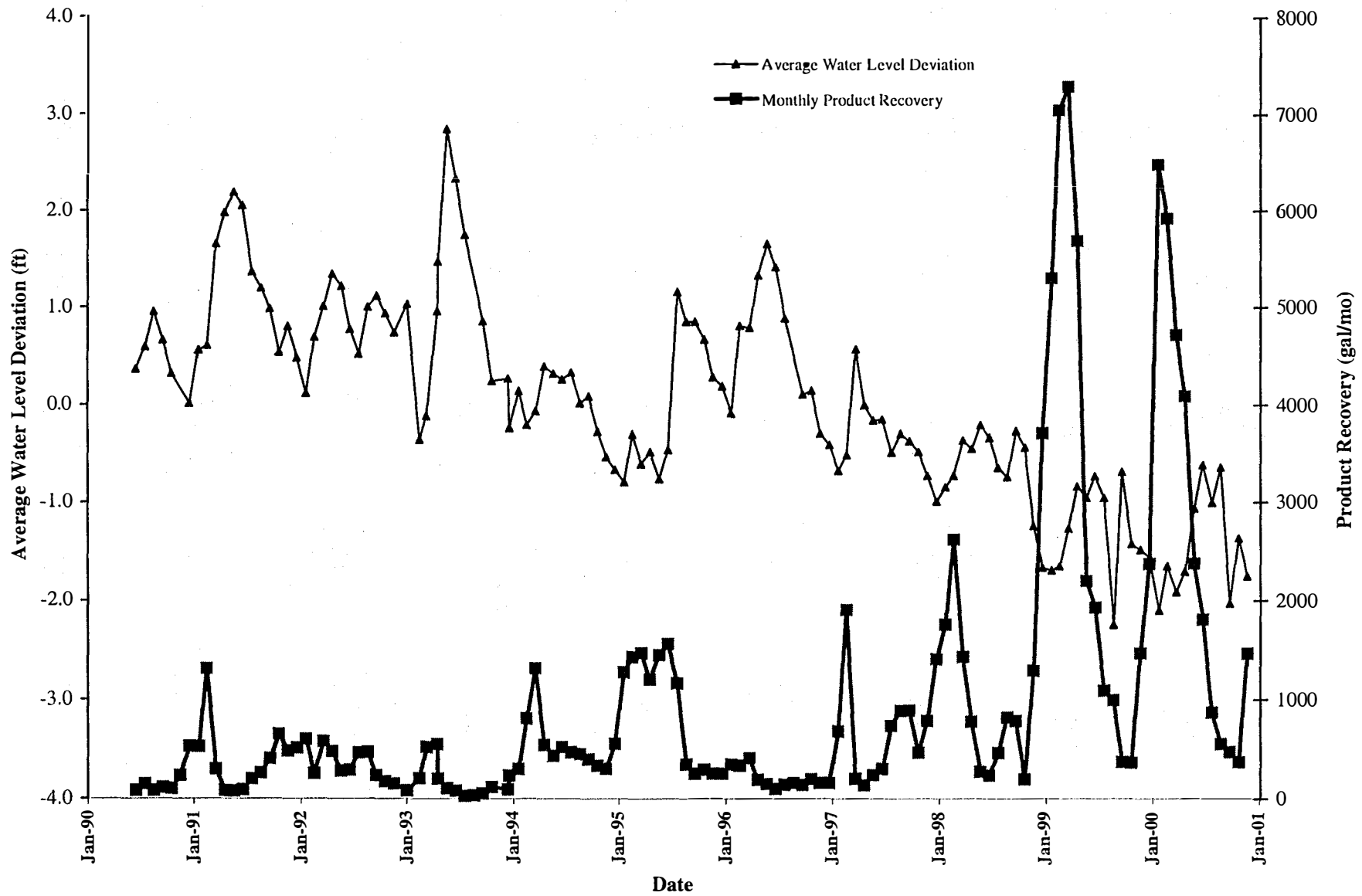
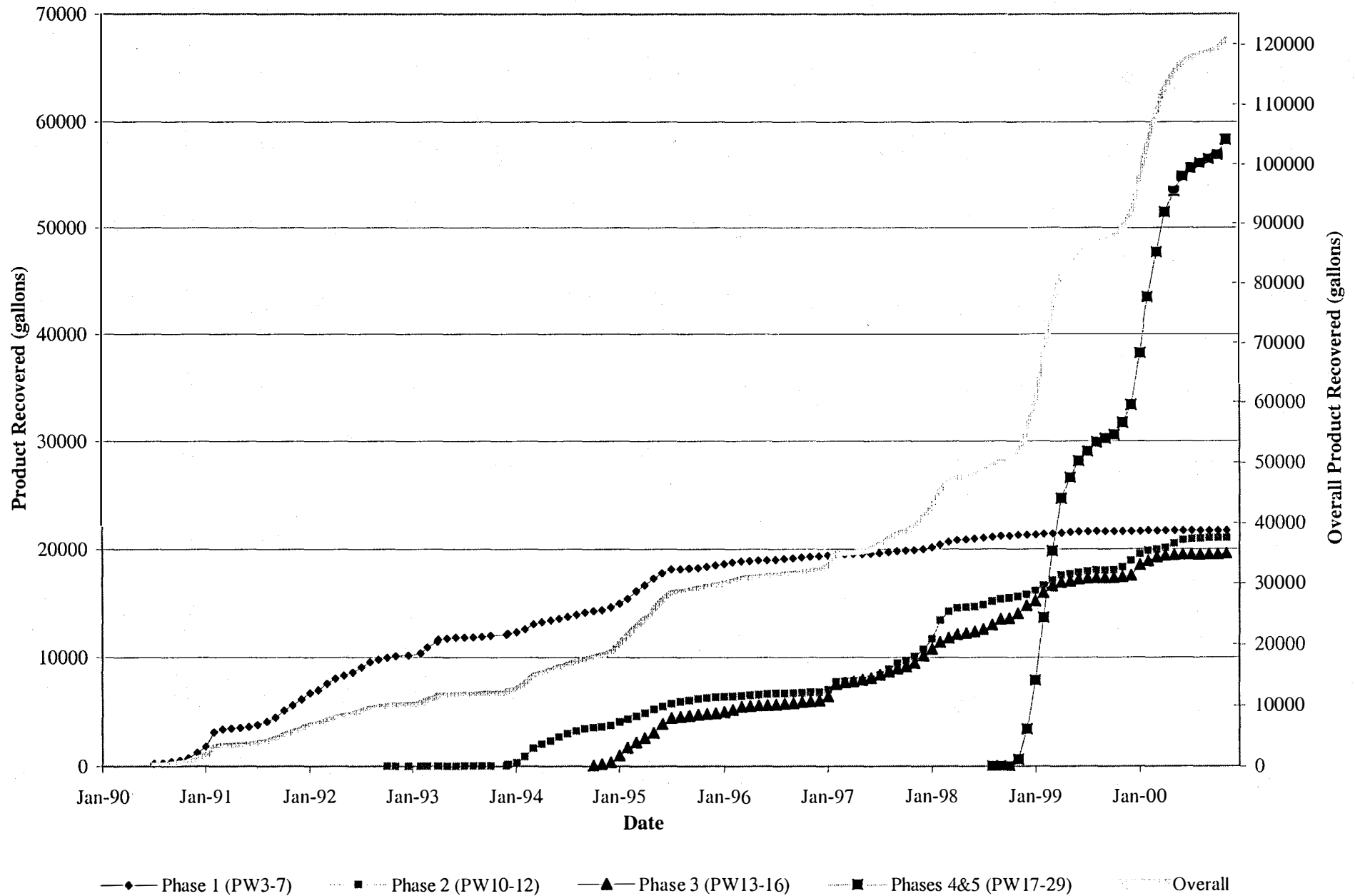


FIGURE 3
Cumulative Product Recovery by Phase and Overall



State of Wisconsin
Department of Natural Resources

BRRTS#04-37-402729

Substance Release Notification
Form 4400-91 (Rev 5-2000) page 1 of 2

24-Hour Emergency Hotline Number: 1-800-943-0003

Date and Mil. Time of Incident <i>1/13/01</i>		Date and Mil. Time Reported <i>1/10/01 9:31</i>	
Person Reporting <i>Doug Bach</i>		Representing <i>Montgomery-Watson</i>	Phone # <i>(608) 231-4747</i>
Responsible Party/Spiller <i>Montgomery Watson</i>		RP Decision based on <i>Consultant</i>	Phone # ()
RP Contact Name <i>Operator: Tom Dushek</i>		Phone # <i>(715) 848-4878</i>	
Address <i>P.O. Box 5385</i>		City, State, Zip Code <i>Madison WI 53705</i>	
Substance Involved <i>Penta chloro phenol</i>	Amount & Units Released <i>40 gallon</i>	Amount Recovered <i>30 gallons</i>	
☐ Solid ☐ Semisolid ☒ Liquid ☐ Gas Color _____ Odor _____			
Exact Location (inc. address, facility name, mileage, bldg. #, etc.) <i>Wallaco Remediation Site - Crestline Windows</i>			Property Owner (if known)
City <i>Wausau</i>	County <i>Marathon</i>	Lat/long	
DNR Region <i>WC</i>	____ 1/4 ____ 1/4sec ____ T ____ NR ____ (E/W)	Weather Cond.	
Cause of Incident <i>Overflow of barrel at satellite site at pump and test system. 125 Rosecrans Street, Wausau, WI</i> <i>Open</i>			
Spilled Substance Impact To: Check (✓) all that apply: ☐ Air ☐ Potential ☒ Soil ☐ Potential ☐ Groundwater ☐ Potential ☐ Surface Water ☐ Potential Name _____ ☐ Storm Sewer ☐ Potential ☐ Sanitary Sewer ☐ Potential ☐ Concrete/Asphalt ☐ Potential ☐ Private Well ☐ Potential ☐ Contained/Recovered ☐ Other: _____		Spill Source: ☐ Transportation Accident, Fuel Tank Spill ☐ Transportation Accident, Load Spill ☐ Industrial Facility ☐ Paper Mill ☐ Chemical Co. ☐ Ag Coop/Facility/ Food Factory/Facility ☐ Gas/Service Station/Garage/Auto Dealer, Repair Shop ☐ Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler ☐ Public Property (city, state, church, school, etc.) ☐ Utility Co, Power Generating/ Transfer Facility ☐ Private Property (home/farm) ☐ Construction, Excavation, Wrecking, Quarry, Mine ☐ Airport Facility ☐ Railroad Facility ☒ Other <i>Remediation Site</i>	
Action Taken By Spiller: ☐ No Action Taken ☐ No Action Needed ☐ Monitor ☒ Cleanup Method: <i>Removed from Ice/</i> <i>Penta mixture</i> ☒ Waste Destination: <i>Enseco</i> ☐ Containment ☐ Contractor Hired Name: _____ ☐ Other: _____			
Injuries? ☐ Yes ☒ No If yes, how many? _____		Has an evacuation occurred? ☐ Yes ☒ No Potential? ☐ Yes ☐ No	
Are there any resource damages? ☐ Yes ☒ No ☐ Potential What kinds? _____			
Other Agencies Notified (✓ first column if notified) (✓) both columns if on the scene ☐ Fire Department ☒ Local DNR ☐ EPA ☐ Local Law Enforcement ☐ Div. Emer. Mgt. ☐ Nat'l Resp. Ctr. 800-442-8802 ☐ LEPC or Local Emer. Mgt. ☐ Coast Guard ☐ Chemtrec 800-424-9300 ☐ Level A/Level B Team ☐ DHFS 608-258-0099 ☐ Other _____			Incident Commander, if known: _____ Phone: _____
Prepared By: (Print) <i>John Brown</i>	(Phone) _____	Date: <i>1/10/01</i>	Rpt'd to DATCP? ☐ Yes ☒ No
Person Notified: <i>Richard Brown</i>	(Phone) _____	Date: <i>1/10/01</i>	Time: _____
Investgtd By: (Print)	(Sign)	Date:	Incident Closed? ☒ Yes ☐ No Date: <i>1/18/2001</i>
Spill Coordinator Signoff: <i>John R. Brown</i>	Date: <i>1/18/2001</i>	Transferred to: ERP ☐ DATCP ☐ Date: _____ Case # _____	NFA Letter Sent? ☐ Yes ☒ No Spill Packet Sent? ☐ Yes ☒ No To: _____

☐ Additional Comments on Reverse

Date and Military Time of Incident:	Responsible Party:
-------------------------------------	--------------------

Additional Comments:

Case Activity Report: ☐ Yes ☐ No CAR#:	(Please attach copy of all CAR and other documentation)
Enforcement Action: ☐ Yes ☐ No (explain below)	
