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July 21, 2017

Mr. Matt Thompson
Wisconsin Department of Natural Resources
1300 W Clairemont Ave
Eau Claire, WI 54701

Subject: 2017 Second Quarterly Report - Wauleco, Inc., Wausau, Wisconsin
BRRTS #02-37-000006

Dear Mr. Thompson:

On behalf of Wauleco, Inc., TRC is submitting a copy (enclosed) of the 2017 Second Quarterly Report for the Wauleco, Inc., site in Wausau, Wisconsin.

If you have any questions or comments regarding this information, please call me at (608) 826-3644.

Sincerely,

TRC Environmental Corporation

Bruce Iverson (for)
Project Manager

Attachments: 2017 Second Quarterly Report

cc: Evan Schreiner – Wauleco, Inc. (2 copies)
David Crass – Michael Best & Friedrich, LLP (1 copy)
Tom Dushek – TRC Wauleco (1 copy)
Ken Quinn – TRC (1 copy)

Wauleco, Inc. - Wausau, Wisconsin
Quarterly Report
Submitted July 2017

Summary of 2017 Second Quarter Activities

Groundwater Extraction and Treatment System Operation

Tables 1a, b, and c summarize the extraction and treatment system performance data for this reporting period. The results of the water discharged to the municipal sewer during the second quarter of 2017 are summarized as follows:

- During early April, 2017 the groundwater treatment system was shut down during the first portion of the month for maintenance. The granular activated carbon was removed and replaced with regenerated carbon, process tanks were cleaned, and piping was replaced and cleaned.
- Pentachlorophenol (PCP) screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sanitary sewer, averaged 2.57 µg/L in April, 1.13 µg/L in May, and 1.27 µg/L in June.
- Laboratory results for the sampling event conducted this quarter are included in Tables 1a, b, and c for each month. The laboratory results for PCP in the system effluent was <3.0 µg/L on April 19, <3.0 µg/L on May 17, and <3.0 µg/L June 22, 2017.
- Both laboratory and on-site screening results indicate that the effluent PCP concentrations were below the monthly average permit level of 150 µg/L and the daily maximum concentration of 300 µg/L.
- Total treatment system efficiency (including carbon polishing units) removed more than 99 percent of the PCP between the influent and the effluent.

On-site screening PCP influent concentrations ranged from 3,160 µg/L to 7,713 µg/L during the quarter (Tables 1a, b, and c). PCP influent and effluent concentrations in the fluidized bed reactor (FBR) are presented graphically, both as individual data points and as moving averages, on Figure 1. FBR results included the following:

- As shown on Figure 1 and in Tables 1a, b, and c, PCP concentrations in the FBR influent fluctuated during the quarter, and generally remain within normal concentrations.
- The average PCP removal efficiency for the biological portion (*i.e.*, FBR influent to the fixed film reactor [FFR] effluent) of the system during this quarter is compared to the following:

MONTH	AVERAGE PCP REMOVAL (%)	PREVIOUS 12 MONTH AVERAGE (%)	AVERAGE 1 YEAR AGO (%)
April 2017	55	39	38
May 2017	76	42	39
June 2017	93	48	36

- The dissolved oxygen concentration in the influent to the FBR averaged 6.3 mg/L in April, 4.4 mg/L in May, and 2.8 mg/L in June 2017.

Laboratory results for the mercury analysis of the system effluent samples are included in Tables 1a, b, and c. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was <0.02 µg/L on April 19, <0.02 µg/L on May 17, and 0.099 µg/L June 22, which are below the permit discharge limit of 1.6 µg/L. The mass loading for mercury in April and May was calculated using half the detection limit of 0.01 µg/L, at 0.000003 lb/24 hours in April, and 0.00000274 lb/24 hours in May, which are below the permit discharge limit of 0.00048 lb/24 hours. In June the mass loading for mercury was calculated at 0.0000267 lb/24 hours, which is below the permit discharge limit of 0.00048 lb/24 hours.

The daily groundwater flow of the effluent to the Wausau Wastewater Treatment Plant averaged 24.98 gpm for April, 22.81 gpm for May, and 22.41 gpm for June, 2017 (Tables 2a, b, and c). The April average was calculated using only the days the treatment system was in operation. A new effluent flow meter was installed on April 4, 2017 during system shutdown. Since June, 2012 the pumping rate has been operated at approximately 22 gpm.

Figure 2 shows the average groundwater flow extracted and the average daily flow discharged to the Wausau Wastewater Treatment Plant.

Groundwater Monitoring

Water table elevations for the month of April 2017 are included in Table 3. Monthly water table elevations have been discontinued, with only quarterly elevations being measured, and semi-annual preparation of water table maps as discussed in the 2014 Annual Groundwater Monitoring Report dated April 16, 2015.

The product thickness data for April 2017 are summarized in Table 4. Measurements show small amounts of product present in April, most likely the result of low water levels following the Lake Wausau drawdown event in October-November 2016. Three monitoring wells measured had free product: W07 had 0.70 ft, W35 had 0.08 ft, and W40 had 0.63 ft. No production wells measured had free product.

Enclosures: Tables 1a, b, and c – Above Ground Treatment System Data
Tables 2a, b, and c – Treatment System Flows
Table 3 – Groundwater Elevation Data
Table 4 – Free Product Measurements
Figure 1 – FBR Influent and Effluent PCP Concentrations
Figure 2 – Average Groundwater Extraction Rates and Water Level Deviation Versus Time

TABLE 1a
APRIL 2017

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	4/19/2017	5.9	<				<	
Chemical Oxygen Demand	mg/L	4/19/2017	35	17				22	
Chloride	mg/L	4/19/2017	160	160				150	
Dissolved Oxygen	mg/L	4/15/2017	7.2	5.6	7.9				
	mg/L	4/19/2017	5.7	1.2	6.6				
	mg/L	4/27/2017	6.1	5	7.7				
Nitrogen, Ammonia	mg/L	4/15/2017	2.5	1.6	0.9				
	mg/L	4/19/2017	1	0.8	0.8				
	mg/L	4/27/2017	1	0.7	0.7				
Nitrogen, Nitrate	mg/L	4/15/2017	<	<	<				
	mg/L	4/19/2017	<	<	<				
	mg/L	4/27/2017	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	4/19/2017	0.21	<				<	
Nitrogen, Total Kjeldahl	mg/L	4/19/2017	0.90	<				<	
Pentachlorophenol-Screen	µg/L	4/1/2017						17	
	µg/L	4/2/2017						17	
	µg/L	4/10/2017						2	
	µg/L	4/11/2017						2	
	µg/L	4/12/2017						1	
	µg/L	4/13/2017						1	
	µg/L	4/14/2017						1	
	µg/L	4/15/2017	4912	3235	2732			2	
	µg/L	4/16/2017						1	
	µg/L	4/17/2017						1	
	µg/L	4/18/2017						1	
	µg/L	4/19/2017	3606	43	8		5	1	
	µg/L	4/20/2017						1	
	µg/L	4/21/2017						1	
	µg/L	4/22/2017						1	
	µg/L	4/23/2017						1	
	µg/L	4/24/2017						1	
	µg/L	4/25/2017						2	
	µg/L	4/26/2017						1	
	µg/L	4/27/2017	3726	2869	2912			1	
	µg/L	4/28/2017						1	
	µg/L	4/29/2017						1	
	µg/L	4/30/2017						1	
pH	S.U.	4/15/2017	6.95	6.95	7				
	S.U.	4/19/2017	7	6.9	6.95				
	S.U.	4/27/2017	7	6.95	7				
Phosphorus, Ortho	mg/L	4/19/2017	<	<				<	
Phosphorus, Phosphate	mg/L	4/15/2017	1	0.8	0.8				

**TABLE 1a
APRIL 2017**

**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>
Phosphorus, Phosphate	mg/L	4/19/2017	0.9	0.2	0.2				
	mg/L	4/27/2017	1	0.8	0.7				
Solids, Total Suspended	mg/L	4/19/2017	12	<				<	
Mercury	µg/L	4/19/2017	<					<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	4/19/2017	360		<		<	<	<
2,4,5-Trichlorophenol	µg/L	4/19/2017	<		<		<	<	<
2,4,6-Trichlorophenol	µg/L	4/19/2017	<		<		<	<	<
2,4-Dichlorophenol	µg/L	4/19/2017	<		<		<	<	<
2,4-Dimethylphenol	µg/L	4/19/2017	<		<		<	<	<
2,4-Dinitrophenol	µg/L	4/19/2017	<		<		<	<	<
2,6-Dichlorophenol	µg/L	4/19/2017	<		<		<	<	<
2-Chlorophenol	µg/L	4/19/2017	<		<		<	<	<
2-Methylphenol	µg/L	4/19/2017	<		<		<	<	<
2-Nitrophenol	µg/L	4/19/2017	<		<		<	<	<
3&4-Methylphenol	µg/L	4/19/2017	<		<		<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	4/19/2017	<		<		<	<	<
4-Chloro-3-Methylphenol	µg/L	4/19/2017	<		<		<	<	<
4-Nitrophenol	µg/L	4/19/2017	<		<		<	<	<
Pentachlorophenol	µg/L	4/19/2017	4600		5.8		<	<	<
Phenol	µg/L	4/19/2017	<		<		<	<	<

**TABLE 1b
MAY 2017**

**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	5/17/2017	8.4	<				<	
Chemical Oxygen Demand	mg/L	5/17/2017	26	<				<	
Chloride	mg/L	5/17/2017	180	180				200	
Dissolved Oxygen	mg/L	5/5/2017	7.6	5	8.5				
	mg/L	5/10/2017	3.9	1.8	7.8				
	mg/L	5/17/2017	3.6	1.7	6.8				
	mg/L	5/25/2017	2.4	1	5.8				
Nitrogen, Ammonia	mg/L	5/5/2017	1	0.8	1				
	mg/L	5/10/2017	1.9	1.9	1.3				
	mg/L	5/17/2017	1.1	1.5	0.7				
	mg/L	5/25/2017	0.9	0.7	0.7				
Nitrogen, Nitrate	mg/L	5/5/2017	<	<	<				
	mg/L	5/10/2017	<	<	<				
	mg/L	5/17/2017	<	<	<				
	mg/L	5/25/2017	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	5/17/2017	<	<				<	
Pentachlorophenol-Screen	µg/L	5/1/2017						1	
	µg/L	5/2/2017						1	
	µg/L	5/3/2017						1	
	µg/L	5/4/2017						1	
	µg/L	5/5/2017	3160	1897	2864			1	
	µg/L	5/6/2017						1	
	µg/L	5/7/2017						1	
	µg/L	5/8/2017						1	
	µg/L	5/9/2017						1	
	µg/L	5/10/2017	3924	25	111			2	
	µg/L	5/11/2017						1	
	µg/L	5/12/2017						1	
	µg/L	5/13/2017						1	
	µg/L	5/14/2017						1	
	µg/L	5/15/2017						1	
	µg/L	5/16/2017						1	
	µg/L	5/17/2017	4439	11	26		1	1	
	µg/L	5/18/2017						2	
	µg/L	5/19/2017						1	
	µg/L	5/20/2017						1	
	µg/L	5/21/2017						1	
	µg/L	5/22/2017						1	
	µg/L	5/23/2017						1	
µg/L	5/24/2017						1		
µg/L	5/25/2017	5639	256	182			1		
µg/L	5/26/2017						1		
µg/L	5/27/2017						1		

TABLE 1b
MAY 2017

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	5/28/2017						1	
	µg/L	5/29/2017						2	
	µg/L	5/30/2017						2	
	µg/L	5/31/2017						1	
pH	S.U.	5/5/2017	7	6.95	7				
	S.U.	5/10/2017	6.95	6.95	7				
	S.U.	5/17/2017	6.9	6.85	6.95				
	S.U.	5/25/2017	6.95	6.9	6.95				
Phosphorus, Ortho	mg/L	5/17/2017	<	<				<	
Phosphorus, Phosphate	mg/L	5/5/2017	0.9	0.8	0.6				
	mg/L	5/10/2017	0.9	0.2	0.2				
	mg/L	5/17/2017	1	0.1	0.1				
	mg/L	5/25/2017	1	0.1	0.1				
Solids, Total Suspended	mg/L	5/17/2017	16	3.0				<	
Mercury	µg/L	5/17/2017						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	5/17/2017	370	<	<			<	<
2,4,5-Trichlorophenol	µg/L	5/17/2017	<	<	<			<	<
2,4,6-Trichlorophenol	µg/L	5/17/2017	<	<	<			<	<
2,4-Dichlorophenol	µg/L	5/17/2017	<	<	<			<	<
2,4-Dimethylphenol	µg/L	5/17/2017	<	<	<			<	<
2,4-Dinitrophenol	µg/L	5/17/2017	<	<	<			<	<
2,6-Dichlorophenol	µg/L	5/17/2017	<	<	<			<	<
2-Chlorophenol	µg/L	5/17/2017	<	<	<			<	<
2-Methylphenol	µg/L	5/17/2017	<	<	<			<	<
2-Nitrophenol	µg/L	5/17/2017	<	<	<			<	<
3&4-Methylphenol	µg/L	5/17/2017	<	<	<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	5/17/2017	<	<	<			<	<
4-Chloro-3-Methylphenol	µg/L	5/17/2017	<	<	<			<	<
4-Nitrophenol	µg/L	5/17/2017	<	<	<			<	<
Pentachlorophenol	µg/L	5/17/2017	4300	24	23			<	<
Phenol	µg/L	5/17/2017	<	<	<			<	<

TABLE 1c
JUNE 2017

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	6/22/2017	9.8	2.2				2.7	
Chemical Oxygen Demand	mg/L	6/22/2017	48	32				17	
Chloride	mg/L	6/22/2017	240	230				230	
Dissolved Oxygen	mg/L	6/2/2017	2.5	0.8	5.2				
	mg/L	6/9/2017	2.6	1.4	6.3				
	mg/L	6/16/2017	2.8	1.2	5.8				
	mg/L	6/22/2017	3.1	1.4	6.1				
	mg/L	6/30/2017	3.2	1.6	5.8				
Nitrogen, Ammonia	mg/L	6/2/2017	1.4	0.8	0.7				
	mg/L	6/9/2017	1	0.8	0.8				
	mg/L	6/16/2017	1.1	1.2	1.3				
	mg/L	6/22/2017	1.3	0.8	0.7				
	mg/L	6/30/2017	1.6	2.1	1.6				
Nitrogen, Nitrate	mg/L	6/2/2017	<	<	<				
	mg/L	6/9/2017	<	<	<				
	mg/L	6/16/2017	<	<	<				
	mg/L	6/22/2017	<	<	<				
	mg/L	6/30/2017	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	6/22/2017	0.60	<				<	
Pentachlorophenol-Screen	ug/L	6/1/2017						2	
	µg/L	6/2/2017	4586	260	360			2	
	µg/L	6/3/2017						1	
	µg/L	6/4/2017						1	
	µg/L	6/5/2017						1	
	µg/L	6/6/2017						1	
	µg/L	6/7/2017						1	
	µg/L	6/8/2017						2	
	µg/L	6/9/2017	7549	554	273			1	
	µg/L	6/10/2017						2	
	µg/L	6/11/2017						2	
	µg/L	6/12/2017						2	
	µg/L	6/13/2017						1	
	µg/L	6/14/2017						1	
	µg/L	6/15/2017						2	
	µg/L	6/16/2017	7713	457	517			1	
	µg/L	6/17/2017						1	
	µg/L	6/18/2017						1	
	µg/L	6/19/2017						1	
	µg/L	6/20/2017						1	
	µg/L	6/21/2017						1	
	µg/L	6/22/2017	5779	290	274		5	1	
	µg/L	6/23/2017						2	
	µg/L	6/24/2017						1	
	µg/L	6/25/2017						1	

**TABLE 1c
JUNE 2017**

**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	6/26/2017						1	
	µg/L	6/27/2017						1	
	µg/L	6/28/2017						1	
	µg/L	6/29/2017						1	
	µg/L	6/30/2017	7355	995	758			1	
pH	S.U.	6/2/2017	7	6.9	6.95				
	S.U.	6/9/2017	7	6.95	6.95				
	S.U.	6/16/2017	6.95	6.9	6.9				
	S.U.	6/22/2017	7	6.9	6.95				
	S.U.	6/30/2017	6.95	6.9	6.95				
Phosphorus, Ortho	mg/L	6/22/2017	<	<				<	
Phosphorus, Phosphate	mg/L	6/2/2017	1	0.2	0.2				
	mg/L	6/9/2017	1.1	0.2	0.2				
	mg/L	6/16/2017	1.1	0.2	0.2				
	mg/L	6/22/2017	0.9	0.2	0.1				
	mg/L	6/30/2017	1	0.2	0.2				
Solids, Total Suspended	mg/L	6/22/2017	18	6.0				<	
Mercury	µg/L	6/22/2017						0.099	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	6/22/2017	340		12			<	<
2,4,5-Trichlorophenol	µg/L	6/22/2017	<		<			<	<
2,4,6-Trichlorophenol	µg/L	6/22/2017	<		<			<	<
2,4-Dichlorophenol	µg/L	6/22/2017	<		<			<	<
2,4-Dimethylphenol	µg/L	6/22/2017	<		<			<	<
2,4-Dinitrophenol	µg/L	6/22/2017	<		<			<	<
2,6-Dichlorophenol	µg/L	6/22/2017	<		<			<	<
2-Chlorophenol	µg/L	6/22/2017	<		<			<	<
2-Methylphenol	µg/L	6/22/2017	<		<			<	<
2-Nitrophenol	µg/L	6/22/2017	<		<			<	<
3&4-Methylphenol	µg/L	6/22/2017	<		<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	6/22/2017	<		<			<	<
4-Chloro-3-Methylphenol	µg/L	6/22/2017	<		<			<	<
4-Nitrophenol	µg/L	6/22/2017	<		<			<	<
Pentachlorophenol	µg/L	6/22/2017	4500		120			<	<
Phenol	µg/L	6/22/2017	<		<			<	<

TABLE 2a
APRIL 2017

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ⁽¹⁾⁽³⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾ (gpm)	POTW Totalized Discharge ⁽³⁾ (gal)
4/1/2017	0.98	4.32	52292840
4/2/2017	0.00	3.00	52297161
4/3/2017	0.00	0.00	52297161
4/4/2017	0.00	0.00	52297161
4/5/2017	0.00	0.00	52297161
4/6/2017	0.00	0.00	52297161
4/7/2017	0.00	0.00	52297161
4/8/2017	0.00	0.00	52297161
4/9/2017	0.00	0.00	52297161
4/10/2017	0.00	0.00	52297161
4/11/2017	22.48	23.36	52330808
4/12/2017	26.39	27.62	52370581
4/13/2017	26.40	27.95	52410827
4/14/2017	26.57	28.34	52451631
4/15/2017	26.93	28.19	52492224
4/16/2017	24.53	25.35	52528722
4/17/2017	23.43	24.75	52564368
4/18/2017	23.57	24.43	52599554
4/19/2017	23.55	24.19	52634384
4/20/2017	23.52	24.24	52669289
4/21/2017	23.56	24.32	52704315
4/22/2017	23.61	24.28	52739282
4/23/2017	23.74	24.22	52774157
4/24/2017	23.88	24.25	52809083
4/25/2017	23.92	24.28	52844042
4/26/2017	23.65	24.15	52878825
4/27/2017	23.42	24.37	52913912
4/28/2017	23.25	24.49	52949179
4/29/2017	23.25	23.87	52983556
4/30/2017	22.16	22.85	53016466
Monthly Average (4/11/17 to 4/30/17)	24.09	24.98	
Total ⁽²⁾ :			729,852

Footnotes:

- (1) Influent and POTW discharge flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters. The influent groundwater flow rate is calculated by adding the instantaneous flow rate from each pumping well (i.e., 16 meters). The POTW discharge flow rate is recorded directly from the effluent meter.
- (2) Total is the cumulative gallons discharged to the POTW during the reporting period. This number is calculated by subtracting the total of the previous month's last day from the total of the current month's last day, see previous month's report for the number used. The total from the first day of the current month is not used in the calculation.
- (3) Totalizers were reset to 0 on August 23, 2012 during the system shutdown for maintenance.

TABLE 2b
MAY 2017

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

<u>Date</u>	<u>Influent Groundwater Flow Rate ⁽¹⁾⁽³⁾ (gpm)</u>	<u>POTW Discharge Flow Rate ⁽¹⁾ (gpm)</u>	<u>POTW Totalized Discharge ⁽³⁾ (gal)</u>
5/1/2017	23.57	23.73	53050634
5/2/2017	24.54	24.34	53085686
5/3/2017	24.67	24.79	53121384
5/4/2017	24.86	24.42	53156547
5/5/2017	25.25	24.28	53191504
5/6/2017	25.47	24.02	53226091
5/7/2017	25.65	24.04	53260705
5/8/2017	25.75	24.25	53295628
5/9/2017	26.01	23.78	53329865
5/10/2017	25.57	23.32	53363451
5/11/2017	25.76	23.14	53396772
5/12/2017	25.78	23.29	53430306
5/13/2017	25.87	23.23	53463751
5/14/2017	25.63	22.86	53496670
5/15/2017	25.29	22.07	53528457
5/16/2017	25.56	21.66	53559646
5/17/2017	28.65	21.60	53590743
5/18/2017	27.62	21.71	53622001
5/19/2017	24.87	21.58	53653069
5/20/2017	25.12	22.37	53685275
5/21/2017	25.06	22.25	53717322
5/22/2017	25.01	22.38	53749549
5/23/2017	24.91	22.05	53781295
5/24/2017	24.64	22.04	53813039
5/25/2017	24.47	22.05	53844796
5/26/2017	24.17	21.96	53876420
5/27/2017	24.22	21.73	53907711
5/28/2017	24.22	21.68	53938937
5/29/2017	24.15	21.52	53969928
5/30/2017	22.69	21.20	54000455
5/31/2017	26.09	23.94	54034925
Average For The Month	25.20	22.81	
Total ⁽²⁾ :			1,018,459

Footnotes:

- (1) Influent and POTW discharge flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters. The influent groundwater flow rate is calculated by adding the instantaneous flow rate from each pumping well (i.e., 16 meters). The POTW discharge flow rate is recorded directly from the effluent meter.
- (2) Total is the cumulative gallons discharged to the POTW during the reporting period. This number is calculated by subtracting the total of the previous month's last day from the total of the current month's last day, see previous month's report for the number used. The total from the first day of the current month is not used in the calculation.
- (3) Totalizers were reset to 0 on August 23, 2012 during the system shutdown for maintenance.

TABLE 2c
JUNE 2017

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

<u>Date</u>	<u>Influent Groundwater Flow Rate ⁽¹⁾⁽³⁾ (gpm)</u>	<u>POTW Discharge Flow Rate ⁽¹⁾ (gpm)</u>	<u>POTW Totalized Discharge ⁽³⁾ (gal)</u>
6/1/2017	25.79	23.85	54069276
6/2/2017	25.10	22.81	54102125
6/3/2017	24.43	22.53	54134561
6/4/2017	24.31	22.49	54166952
6/5/2017	24.12	22.68	54199605
6/6/2017	24.42	23.33	54233196
6/7/2017	24.34	22.93	54266211
6/8/2017	24.32	22.75	54298968
6/9/2017	23.26	22.21	54330944
6/10/2017	23.66	22.51	54363364
6/11/2017	24.39	23.11	54396639
6/12/2017	24.34	23.17	54430000
6/13/2017	24.05	23.14	54463319
6/14/2017	23.63	22.36	54495515
6/15/2017	23.87	22.24	54527547
6/16/2017	24.49	22.80	54560374
6/17/2017	24.05	22.40	54592637
6/18/2017	24.02	22.04	54624379
6/19/2017	23.96	21.69	54655608
6/20/2017	24.28	21.83	54687040
6/21/2017	24.31	21.71	54718300
6/22/2017	23.16	20.67	54748060
6/23/2017	24.28	21.49	54779001
6/24/2017	24.97	21.96	54810620
6/25/2017	25.23	22.40	54842873
6/26/2017	25.76	22.51	54875289
6/27/2017	25.93	22.54	54907752
6/28/2017	25.86	22.17	54939678
6/29/2017	25.97	21.60	54970775
6/30/2017	26.10	22.34	55002944
Average	24.55	22.41	
Total ⁽²⁾ :			968,019

Footnotes:

- (1) Influent and POTW discharge flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters. The influent groundwater flow rate is calculated by adding the instantaneous flow rate from each pumping well (i.e., 16 meters). The POTW discharge flow rate is recorded directly from the effluent meter.
- (2) Total is the cumulative gallons discharged to the POTW during the reporting period. This number is calculated by subtracting the total of the previous month's last day from the total of the current month's last day, see previous month's report for the number used. The total from the first day of the current month is not used in the calculation.
- (3) Totalizers were reset to 0 on August 23, 2012 during the system shutdown for maintenance.

TABLE 3

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	April 24, 2017 (ft msl)	May 2017	June 2017
PW01	1163.86	----	----
PW02	Abandoned	----	----
PW03	1164.08	----	----
PW3S	1163.35	----	----
PW04	1163.25	----	----
PW05	1163.24	----	----
PW06	1163.43	----	----
PW07	1155.07	----	----
PW08	1164.23	----	----
PW09I	-----	----	----
PW09O	1163.57	----	----
PW10	1163.35	----	----
PW11	1162.41	----	----
PW12	1163.48	----	----
PW13	1163.29	----	----
PW14	1163.65	----	----
PW15	1163.73	----	----
PW16	1162.98	----	----
PW17	1163.03	----	----
PW18	1163.44	----	----
PW19	1162.90	----	----
PW20	1162.65	----	----
PW21	1162.91	----	----
PW22	1163.23	----	----
PW23	1163.21	----	----
PW24	1162.01	----	----
PW25	1161.51	----	----
PW26	1161.61	----	----
PW27	1161.85	----	----
PW28	1163.99	----	----
PW29	1164.02	----	----
P01	1163.26	----	----
OW01	1165.04	----	----
W01A	1164.1	----	----
W01B	1164.13	----	----
W02	1163.73	----	----
W03A	1163.29	----	----
W03B	1162.93	----	----
W04A	1163.42	----	----
W04B	1163.41	----	----
W05	1163.24	----	----
W06R	1164.06	----	----
W07	1163.88	----	----
W08	1174.29	----	----
W09	1163.56	----	----
W10A	1162.38	----	----
W10B	1162.11	----	----
W11	1161.93	----	----
W12	1161.3	----	----
W13	1163.58	----	----
W14	1161.42	----	----
W16	1163.04	----	----
W17	1163.67	----	----
W18	1162.19	----	----

TABLE 3 (continued)

Groundwater Elevation Data
 Wauleco, Inc.
 Wausau, Wisconsin

Well	April 24, 2017 (ft msl)	May 2017	June 2017
W19	1163.59	----	----
W21	1161.66	----	----
W22	1162.96	----	----
W23	1161.56	----	----
W24A	1161.51	----	----
W25	1164.09	----	----
W26	1161.96	----	----
W27	1162.67	----	----
W28	1162.21	----	----
W29	1161.8	----	----
W30	1163.24	----	----
W31	1161.63	----	----
W32	1161.62	----	----
W33	1163.24	----	----
W34	1163.2	----	----
W35	1163.32	----	----
W36	1163.6	----	----
W39	1163.26	----	----
W40	1162.744	----	----
W41	1163.24	----	----
W42	1163.66	----	----
W44	1163.25	----	----
W45	1164	----	----
W46	1163.09	----	----
W47	1162.46	----	----
W48	1163.13	----	----
W49	1163.78	----	----
W66	1163.99	----	----
W67	1163.95	----	----
W68A	1164.05	----	----
W68B	1163.95	----	----
W69	1163.39	----	----
W70B	Abandoned	----	----
River	----	----	----
IW01	1163.22	----	----
IW01A	1163.24	----	----
FP01	1162.08	----	----
FP02	1162.12	----	----
FP03	1160.83	----	----
FP04	1162.18	----	----
3M Basin	Water in both Basins	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	----	----
DFOWM 10A	Abandoned	----	----
DFOWM 11	----	----	----
DFOWM 12	----	----	----
W71	1165.56	----	----
W72	1164.35	----	----
W73	1163.59	----	----
W74	1163.35	----	----

Notes:

1. ft msl = feet mean sea level
2. PW09O denotes the outer well and PW09I denotes the inner well
3. ---- = Well not measured
4. Groundwater elevations have been adjusted for product thickness.
5. Top of casing elevations were resurveyed for the on-site wells on December 4, 2009 . Use of the new data began in January 2010.

Table 4

Free Product Measurements
 Wauleco, Inc.
 Wausau, Wisconsin

Well	April 24, 2017 (ft)	May 2017	June 2017
PW01	0.00	----	----
PW02	-----	----	----
PW03	0.00	----	----
PW3S	0.00	----	----
PW04	0.00	----	----
PW05	0.00	----	----
PW06	0.00	----	----
PW07	0.00	----	----
PW08	0.00	----	----
PW09I	-----	----	----
PW09O	0.00	----	----
PW10	0.00	----	----
PW11	0.00	----	----
PW12	0.00	----	----
PW13	0.00	----	----
PW14	0.00	----	----
PW15	0.00	----	----
PW16	0.00	----	----
PW17	0.00	----	----
PW18	0.00	----	----
PW19	0.00	----	----
PW20	0.00	----	----
PW21	0.00	----	----
PW22	0.00	----	----
PW23	0.00	----	----
PW24	0.00	----	----
PW25	0.00	----	----
PW26	0.00	----	----
PW27	0.00	----	----
PW28	0.00	----	----
PW29	0.00	----	----
P01	0.00	----	----
OW01	0.00	----	----
W01A	0.00	----	----
W01B	0.00	----	----
W02	0.00	----	----
W03A	0.00	----	----
W03B	0.00	----	----
W04A	0.00	----	----
W04B	0.00	----	----
W05	0.00	----	----
W06R	0.00	----	----
W07	0.70	----	----
W08	0.00	----	----
W09	0.00	----	----
W10A	0.00	----	----
W10B	0.00	----	----
W11	0.00	----	----
W12	0.00	----	----
W13	0.00	----	----
W14	0.00	----	----
W16	0.00	----	----
W17	0.00	----	----

**Free Product Measurements
Wauleco, Inc.
Wausau, Wisconsin**

<u>Well</u>	<u>April 24, 2017 (ft)</u>	<u>May 2017</u>	<u>June 2017</u>
W18	0.00	----	----
W19	0.00	----	----
W21	0.00	----	----
W22	0.00	----	----
W23	0.00	----	----
W24A	0.00	----	----
W25	0.00	----	----
W26	0.00	----	----
W27	0.00	----	----
W28	0.00	----	----
W29	0.00	----	----
W30	0.00	----	----
W31	0.00	----	----
W32	0.00	----	----
W33	0.00	----	----
W34	0.00	----	----
W35	0.08	----	----
W36	0.00	----	----
W39	0.00	----	----
W40	0.63	----	----
W41	0.00	----	----
W42	0.00	----	----
W44	0.00	----	----
W45	0.00	----	----
W46	0.00	----	----
W47	0.00	----	----
W48	0.00	----	----
W49	0.00	----	----
W66	0.00	----	----
W67	0.00	----	----
W68A	0.00	----	----
W68B	0.00	----	----
W69	0.00	----	----
W70B	0.00	----	----
River	-----	----	----
IW01	0.00	----	----
IW01A	0.00	----	----
FP01	0.00	----	----
FP02	0.00	----	----
FP03	0.00	----	----
FP04	0.00	----	----
3M Basin	0.00	----	----
DFOWM 5	-----	----	----
DFOWM 9	0.00	----	----
DFOWM 10A	0.00	----	----
DFOWM 11	-----	----	----
DFOWM 12	-----	----	----
W71	0.00	----	----
W72	0.00	----	----
W73	0.00	----	----
W74	0.00	----	----

Notes:

1. PW09O denotes the outer well and PW09I denotes the inner well
2. ----- = Well not measured

FIGURE 1
FBR Influent and Effluent PCP Concentrations
Wanleco, Inc.
Wausau, WI

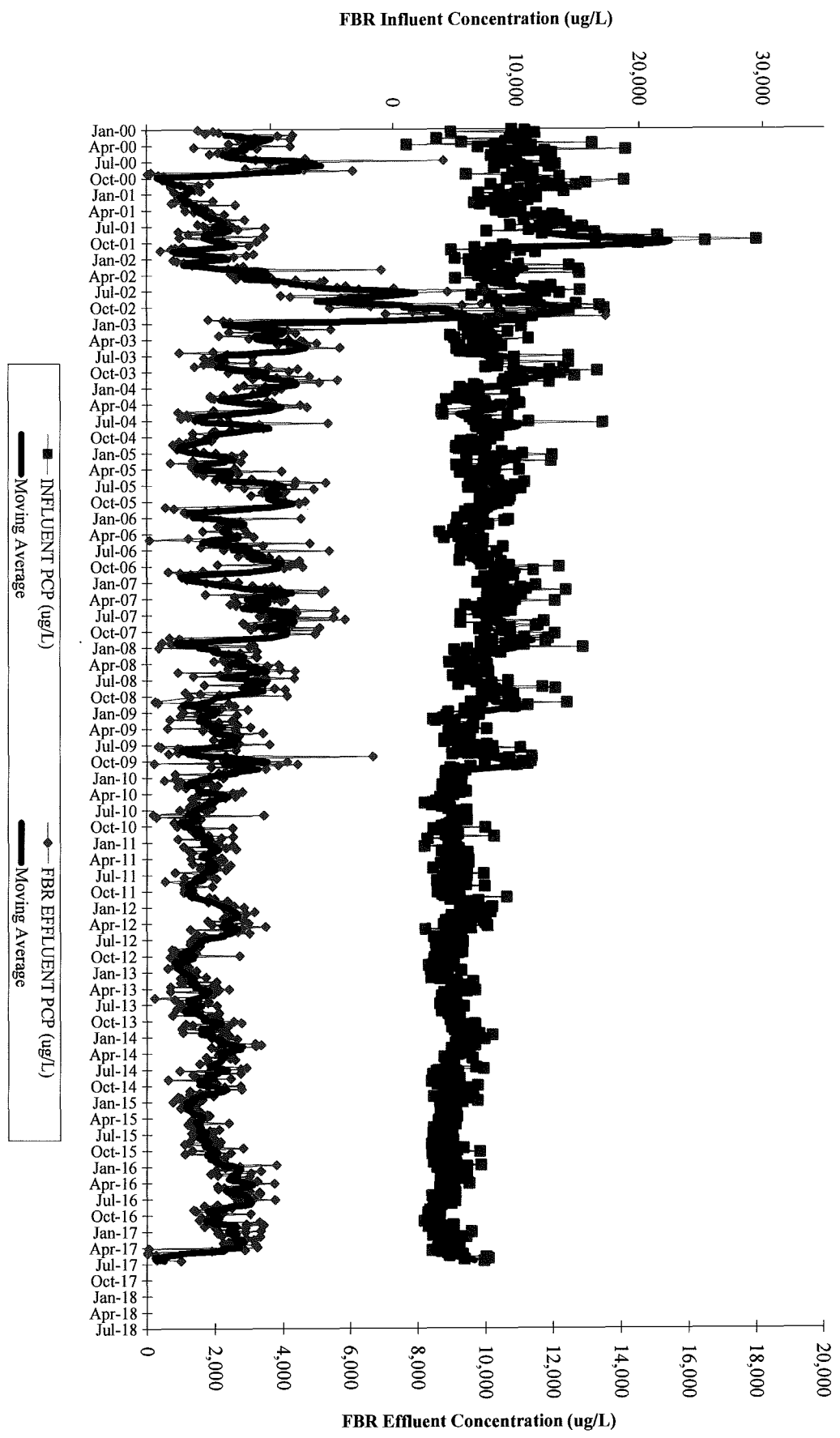
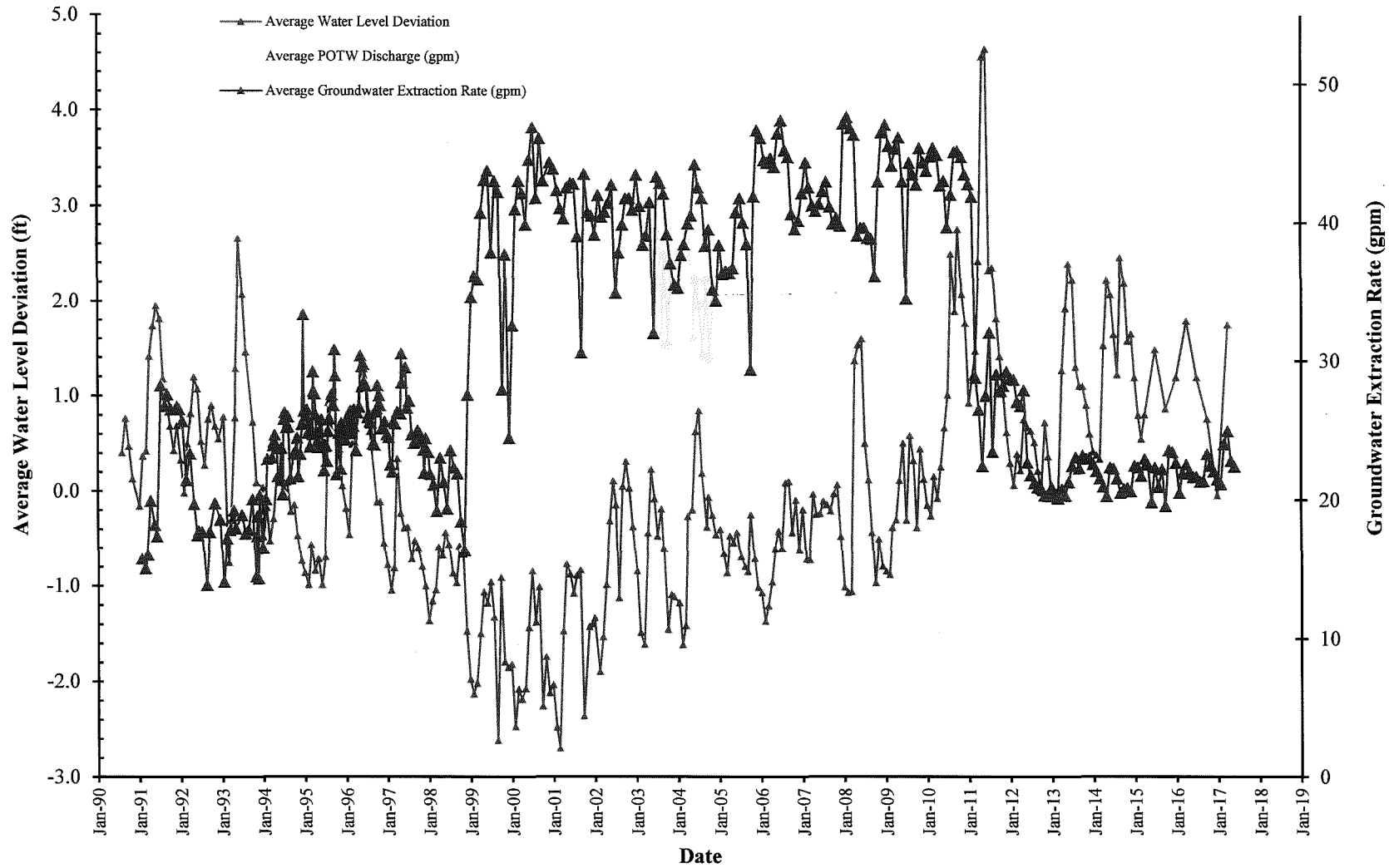


FIGURE 2

Average Groundwater Extraction Rates and Water Level Deviation Versus Time
Wauleco, Inc.
Wausau, WI



Note: The Average Groundwater Extraction Rate is a monthly average of the flow into the treatment system. The monthly average POTW discharge is less than the total extraction rate during the PPT pilot test due to the injection of treated water into IW01.