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January 12, 2021

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

Subject: 2020 Fourth 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 2020 Fourth 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) 235-4963.

Sincerely,

TRC

A handwritten signature in blue ink, appearing to read "Bruce Iverson".

Bruce Iverson
Project Manager

Attachments: 2020 Fourth Quarterly Report

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

**Wauleco, Inc. - Wausau, Wisconsin
Quarterly Report
Submitted January 2021**

Summary of 2020 Fourth 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 fourth quarter of 2020 are summarized as follows:

- Pentachlorophenol (PCP) screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sanitary sewer, averaged 1.03 µg/L in October, 2.30 µg/L in November, and 3.45 µg/L in December.
- 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 October 13, <3.0 µg/L on November 11, and <3.0 µg/L on December 9, 2020.
- 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 3,272 µg/L to 7,744 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 (%)
October 2020	85	86	79
November 2020	81	85	87
December 2020	76	85	84

- The dissolved oxygen concentration in the influent to the FBR averaged 1.8 mg/L in October, 1.6 mg/L in November, and 1.9 mg/L in December 2020.

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 0.044 µg/L on October 13, 0.029 µg/L on November 11, and <0.020 µg/L on December 9, which are below the permit discharge limit of 1.6 µg/L. The mass loading for mercury in October was calculated at 0.0000118 lb/24 hours, November was calculated at 0.00000802 lb/24 hours which is below the permit discharge limit of 0.00048 lb/24 hours. The mass loading for mercury in December was calculated using half the detection limit of 0.01 µg/L, at 0.00000274 lb/24 hours in December, which are 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 22.34 gpm for October, 23.02 gpm for November, and 22.81 gpm for December 2020 (Tables 2a, b, and c). 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 October 2020 are summarized in Table 3.

The product thickness data for October 2020 are summarized in Table 4. Measurements show minimal product present in October.

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
OCTOBER 2020**

**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	10/13/2020	9.2	2.1				<	
Chemical Oxygen Demand	mg/L	10/13/2020	41	39				20	
Chloride	mg/L	10/13/2020	160	160				160	
Dissolved Oxygen	mg/L	10/8/2020	2	1.2	5.8				
	mg/L	10/13/2020	2.1	1.3	5.9				
	mg/L	10/18/2020	1.2	0.6	4.2				
	mg/L	10/30/2020	1.9	1	4.3				
Nitrogen, Ammonia	mg/L	10/8/2020	0.7	0.6	0.6				
	mg/L	10/13/2020	0.5	0.4	0.4				
	mg/L	10/18/2020	0.6	0.3	0.3				
	mg/L	10/30/2020	0.5	0.4	0.4				
Nitrogen, Nitrate	mg/L	10/8/2020	<	<	<				
	mg/L	10/13/2020	<	<	<				
	mg/L	10/18/2020	<	<	<				
	mg/L	10/30/2020	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	10/13/2020	<	<			<		
Nitrogen, Total Kjeldahl	mg/L	10/13/2020	<	<			<		
Pentachlorophenol-Screen	µg/L	10/1/2020						1	
	µg/L	10/2/2020						1	
	µg/L	10/3/2020						1	
	µg/L	10/4/2020						1	
	µg/L	10/5/2020						1	
	µg/L	10/6/2020						1	
	µg/L	10/7/2020						1	
	µg/L	10/8/2020	5987	1278	1122			1	
	µg/L	10/9/2020						1	
	µg/L	10/10/2020						1	
	µg/L	10/11/2020						1	
	µg/L	10/12/2020						1	
	µg/L	10/13/2020	7744	1473	1206			1	
	µg/L	10/14/2020						2	
	µg/L	10/15/2020						1	
	µg/L	10/16/2020						1	
	µg/L	10/17/2020						1	
	µg/L	10/18/2020	6869	969	891			1	
	µg/L	10/19/2020						1	
	µg/L	10/20/2020						1	
	µg/L	10/21/2020						1	
	µg/L	10/22/2020						1	
	µg/L	10/23/2020						1	
	µg/L	10/24/2020						1	
	µg/L	10/25/2020						1	
	µg/L	10/26/2020						1	
	µg/L	10/27/2020						1	
	µg/L	10/28/2020						1	

**TABLE 1a
OCTOBER 2020**

**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	10/29/2020						1	
	µg/L	10/30/2020	3272	361	403			1	
	µg/L	10/31/2020						1	
pH	S.U.	10/8/2020	6.6	6.8	7.1				
	S.U.	10/13/2020	6.7	6.75	6.8				
	S.U.	10/18/2020	6.8	6.75	6.7				
	S.U.	10/30/2020	6.7	6.8	6.9				
Phosphorus, Ortho	mg/L	10/13/2020	<	<				<	
Phosphorus, Phosphate	mg/L	10/8/2020	0.5	0.4	0.4				
	mg/L	10/13/2020	0.5	0.4	0.4				
	mg/L	10/18/2020	0.6	0.5	0.5				
	mg/L	10/30/2020	0.6	0.4	0.4				
Solids, Total Suspended	mg/L	10/13/2020	9.8	8.8				<	
Mercury	µg/L	10/13/2020	0.20					0.044	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	10/13/2020	350		61		<	<	<
2,4,5-Trichlorophenol	µg/L	10/13/2020	<		<		<	<	<
2,4,6-Trichlorophenol	µg/L	10/13/2020	<		<		<	<	<
2,4-Dichlorophenol	µg/L	10/13/2020	<		<		<	<	<
2,4-Dimethylphenol	µg/L	10/13/2020	<		<		<	<	<
2,4-Dinitrophenol	µg/L	10/13/2020	<		<		<	<	<
2,6-Dichlorophenol	µg/L	10/13/2020	<		<		<	<	<
2-Chlorophenol	µg/L	10/13/2020	<		<		<	<	<
2-Methylphenol	µg/L	10/13/2020	<		<		<	<	<
2-Nitrophenol	µg/L	10/13/2020	<		<		<	<	<
3&4-Methylphenol	µg/L	10/13/2020	<		<		<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	10/13/2020	<		<		<	<	<
4-Chloro-3-Methylphenol	µg/L	10/13/2020	<		<		<	<	<
4-Nitrophenol	µg/L	10/13/2020	<		<		<	<	<
Pentachlorophenol	µg/L	10/13/2020	4100		620		210	<	<
Phenol	µg/L	10/13/2020	<		<		<	<	<

**TABLE 1b
NOVEMBER 2020**

**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	11/11/2020	8.0	2.9				<	
Chemical Oxygen Demand	mg/L	11/11/2020	49	32				20	
Chloride	mg/L	11/11/2020	130	130				140	
Dissolved Oxygen	mg/L	11/5/2020	1.6	0.8	5.2				
	mg/L	11/11/2020	1.7	0.8	5.2				
	mg/L	11/18/2020	1.6	0.8	5.7				
	mg/L	11/24/2020	1.6	0.9	5.2				
Nitrogen, Ammonia	mg/L	11/5/2020	0.5	0.4	0.3				
	mg/L	11/11/2020	0.4	0.3	0.3				
	mg/L	11/18/2020	0.3	0.3	0.3				
	mg/L	11/24/2020	0.5	0.4	0.4				
Nitrogen, Nitrate	mg/L	11/5/2020	<	<	<				
	mg/L	11/11/2020	<	<	<				
	mg/L	11/18/2020	<	<	<				
	mg/L	11/24/2020	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	11/11/2020	<	<				<	
Pentachlorophenol-Screen	µg/L	11/1/2020						1	
	µg/L	11/2/2020						1	
	µg/L	11/3/2020						1	
	µg/L	11/4/2020						1	
	µg/L	11/5/2020	4432	740	732			1	
	µg/L	11/6/2020						1	
	µg/L	11/7/2020						1	
	µg/L	11/8/2020						1	
	µg/L	11/9/2020						1	
	µg/L	11/10/2020						2	
	µg/L	11/11/2020	5306	1188	1143		421	2	
	µg/L	11/12/2020						1	
	µg/L	11/13/2020						1	
	µg/L	11/14/2020						1	
	µg/L	11/15/2020						1	
	µg/L	11/16/2020						1	
	µg/L	11/17/2020						1	
	µg/L	11/18/2020	5099	1052	857			1	
	µg/L	11/19/2020						4	
	µg/L	11/20/2020						4	
	µg/L	11/21/2020						4	
	µg/L	11/22/2020						4	
	µg/L	11/23/2020						4	
	µg/L	11/24/2020	4712	1426	1222			4	
	µg/L	11/25/2020						4	
	µg/L	11/26/2020						4	
µg/L	11/27/2020						4		

**TABLE 1b
NOVEMBER 2020**

**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	11/28/2020						4	
	µg/L	11/29/2020						4	
	µg/L	11/30/2020						5	
pH	S.U.	11/5/2020	6.8	6.8	6.85				
	S.U.	11/11/2020	6.7	6.65	6.75				
	S.U.	11/18/2020	6.7	7	7				
	S.U.	11/24/2020	6.9	6.95	7				
Phosphorus, Ortho	mg/L	11/11/2020	<	<				<	
Phosphorus, Phosphate	mg/L	11/5/2020	0.5	0.4	0.8				
	mg/L	11/11/2020	0.7	0.6	0.6				
	mg/L	11/18/2020	0.8	0.6	0.6				
	mg/L	11/24/2020	0.8	0.7	0.7				
Solids, Total Suspended	mg/L	11/11/2020	9.8	17	13			2.8	
Mercury	µg/L	11/11/2020						0.029	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	11/11/2020	<	65	61			<	<
2,4,5-Trichlorophenol	µg/L	11/11/2020	<	<	<			<	<
2,4,6-Trichlorophenol	µg/L	11/11/2020	<	<	<			<	<
2,4-Dichlorophenol	µg/L	11/11/2020	<	<	<			<	<
2,4-Dimethylphenol	µg/L	11/11/2020	<	<	<			<	<
2,4-Dinitrophenol	µg/L	11/11/2020	<	<	<			<	<
2,6-Dichlorophenol	µg/L	11/11/2020	<	<	<			<	<
2-Chlorophenol	µg/L	11/11/2020	<	<	<			<	<
2-Methylphenol	µg/L	11/11/2020	<	<	<			<	<
2-Nitrophenol	µg/L	11/11/2020	<	<	<			<	<
3&4-Methylphenol	µg/L	11/11/2020	<	<	<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	11/11/2020	<	<	<			<	<
4-Chloro-3-Methylphenol	µg/L	11/11/2020	<	<	<			<	<
4-Nitrophenol	µg/L	11/11/2020	<	<	<			<	<
Pentachlorophenol	µg/L	11/11/2020	4000	590	580			<	<
Phenol	µg/L	11/11/2020	<	<	<			<	<

**TABLE 1c
DECEMBER 2020**

**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	12/9/2020	5.0	2.8				<	
Chemical Oxygen Demand	mg/L	12/9/2020	46	41				34	
Chloride	mg/L	12/9/2020	130	130				140	
Dissolved Oxygen	mg/L	12/3/2020	1.6	0.8	5.4				
	mg/L	12/9/2020	2	1	5.9				
	mg/L	12/17/2020	2	1	5.8				
	mg/L	12/23/2020	1.8	1	6				
	mg/L	12/31/2020	2	1.2	6.3				
Nitrogen, Ammonia	mg/L	12/3/2020	0.5	0.5	0.5				
	mg/L	12/9/2020	0.7	0.4	0.3				
	mg/L	12/17/2020	0.5	0.6	0.4				
	mg/L	12/23/2020	0.6	0.4	0.3				
	mg/L	12/31/2020	0.3	0.3	0.4				
Nitrogen, Nitrate	mg/L	12/3/2020	<	<	<				
	mg/L	12/9/2020	<	<	<				
	mg/L	12/17/2020	<	<	<				
	mg/L	12/23/2020	<	<	<				
	mg/L	12/31/2020	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	12/9/2020	<	<				<	
Pentachlorophenol-Screen	µg/L	12/1/2020						5	
	µg/L	12/2/2020						5	
	µg/L	12/3/2020	6610	1317	1452			4	
	µg/L	12/4/2020						4	
	µg/L	12/5/2020						4	
	µg/L	12/6/2020						4	
	µg/L	12/7/2020						4	
	µg/L	12/8/2020						3	
	µg/L	12/9/2020	5617	1370	1148		322	4	
	µg/L	12/10/2020						3	
	µg/L	12/11/2020						4	
	µg/L	12/12/2020						4	
	µg/L	12/13/2020						4	
	µg/L	12/14/2020						4	
	µg/L	12/15/2020						3	
	µg/L	12/16/2020						3	
	µg/L	12/17/2020	6700	1415	1543			4	
	µg/L	12/18/2020						3	
	µg/L	12/19/2020						3	
	µg/L	12/20/2020						3	
	µg/L	12/21/2020						3	
	µg/L	12/22/2020						3	
	µg/L	12/23/2020	5710	1342	1458			3	
	µg/L	12/24/2020						3	
	µg/L	12/25/2020						3	

**TABLE 1c
DECEMBER 2020**

**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	12/26/2020						3	
	µg/L	12/27/2020						3	
	µg/L	12/28/2020						3	
	µg/L	12/29/2020						3	
	µg/L	12/30/2020						3	
	µg/L	12/31/2020	6493	1642	1773			2	
pH	S.U.	12/3/2020	6.75	6.8	6.85				
	S.U.	12/9/2020	6.7	6.65	6.7				
	S.U.	12/17/2020	6.65	6.7	6.7				
	S.U.	12/23/2020	6.7	6.6	6.65				
	S.U.	12/31/2020	6.75	6.8	6.75				
Phosphorus, Ortho	mg/L	12/9/2020	<	<				<	
Phosphorus, Phosphate	mg/L	12/3/2020	0.7	0.6	0.6				
	mg/L	12/9/2020	0.5	0.4	0.4				
	mg/L	12/17/2020	0.5	0.4	0.4				
	mg/L	12/23/2020	0.5	0.4	0.4				
	mg/L	12/31/2020	0.4	0.3	0.3				
Solids, Total Suspended	mg/L	12/9/2020	13	16				2.2	
Mercury	µg/L	12/9/2020						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	12/9/2020	<		<			<	<
2,4,5-Trichlorophenol	µg/L	12/9/2020	<		<			<	<
2,4,6-Trichlorophenol	µg/L	12/9/2020	<		<			<	<
2,4-Dichlorophenol	µg/L	12/9/2020	<		<			<	<
2,4-Dimethylphenol	µg/L	12/9/2020	<		<			<	<
2,4-Dinitrophenol	µg/L	12/9/2020	<		<			<	<
2,6-Dichlorophenol	µg/L	12/9/2020	<		<			<	<
2-Chlorophenol	µg/L	12/9/2020	<		<			<	<
2-Methylphenol	µg/L	12/9/2020	<		<			<	<
2-Nitrophenol	µg/L	12/9/2020	<		<			<	<
3&4-Methylphenol	µg/L	12/9/2020	<		<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	12/9/2020	<		<			<	<
4-Chloro-3-Methylphenol	µg/L	12/9/2020	<		<			<	<
4-Nitrophenol	µg/L	12/9/2020	<		<			<	<
Pentachlorophenol	µg/L	12/9/2020	2200		300			<	<
Phenol	µg/L	12/9/2020	<		<			<	<

**TABLE 2a
OCTOBER 2020**

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

Date	Influent Groundwater Flow Rate ⁽¹⁾⁽³⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾⁽⁴⁾ (gpm)	POTW Totalized Discharge ⁽³⁾ (gal)
10/1/2020	20.25	21.67	92406245
10/2/2020	21.49	22.41	92438509
10/3/2020	22.25	23.00	92471632
10/4/2020	22.32	22.84	92504528
10/5/2020	22.42	22.82	92537387
10/6/2020	22.50	22.69	92570066
10/7/2020	22.59	23.01	92603196
10/8/2020	22.46	22.77	92635979
10/9/2020	22.35	22.65	92668595
10/10/2020	22.38	22.63	92701185
10/11/2020	22.44	22.80	92734018
10/12/2020	22.72	22.63	92766604
10/13/2020	22.96	22.45	92798938
10/14/2020	22.55	22.64	92831534
10/15/2020	22.49	22.43	92863838
10/16/2020	22.32	22.36	92896043
10/17/2020	22.30	22.50	92928447
10/18/2020	22.09	22.34	92960614
10/19/2020	22.18	22.19	92992573
10/20/2020	22.33	22.45	93024897
10/21/2020	22.39	22.26	93056949
10/22/2020	22.44	22.47	93089310
10/23/2020	22.34	22.51	93121725
10/24/2020	22.32	22.41	93153989
10/25/2020	22.26	22.37	93186198
10/26/2020	22.30	22.28	93218280
10/27/2020	21.10	21.65	93249459
10/28/2020	20.82	21.55	93280489
10/29/2020	20.80	21.40	93311304
10/30/2020	20.74	21.39	93342102
10/31/2020	20.84	21.09	93372478
Average For The Month	22.06	22.34	
Total ⁽²⁾ :			997,438

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.
- ⁽⁴⁾ A new effluent meter was installed in April, 2017 during the system shutdown for maintenance.

**TABLE 2b
NOVEMBER 2020**

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

Date	Influent Groundwater Flow Rate ⁽¹⁾⁽³⁾ (gpm)	POTW Discharge Flow Rate ⁽¹⁾⁽⁴⁾ (gpm)	POTW Totalized Discharge ⁽³⁾ (gal)
11/1/2020	21.59	22.52	93404908
11/2/2020	20.71	21.63	93436058
11/3/2020	20.76	21.57	93467116
11/4/2020	16.60	17.18	93491860
11/5/2020	23.19	22.79	93524672
11/6/2020	23.88	23.84	93558996
11/7/2020	23.87	23.52	93592871
11/8/2020	23.84	23.66	93626942
11/9/2020	23.92	23.52	93660810
11/10/2020	24.02	23.55	93694722
11/11/2020	24.11	23.41	93728427
11/12/2020	23.88	23.62	93762441
11/13/2020	23.90	23.48	93796252
11/14/2020	24.07	23.57	93830192
11/15/2020	24.18	23.50	93864033
11/16/2020	24.27	23.38	93897694
11/17/2020	24.11	23.18	93931074
11/18/2020	24.15	23.40	93964773
11/19/2020	24.30	23.26	93998272
11/20/2020	24.12	23.49	94032102
11/21/2020	24.12	23.24	94065565
11/22/2020	24.13	23.38	94099238
11/23/2020	24.06	23.43	94132977
11/24/2020	23.99	23.22	94166407
11/25/2020	23.97	23.02	94199556
11/26/2020	24.04	23.15	94232889
11/27/2020	24.03	23.47	94266679
11/28/2020	23.98	23.33	94300279
11/29/2020	23.95	23.28	94333802
11/30/2020	23.94	23.14	94367120
Average For The Month	23.46	23.02	
Total ⁽²⁾ :			994,642

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.
- (4) A new effluent meter was installed in April, 2017 during the system shutdown for maintenance.

TABLE 2c
DECEMBER 2020

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) (4)} (gpm)</u>	<u>POTW Totalized Discharge ⁽³⁾ (gal)</u>
12/1/2020	23.90	22.98	94400213
12/2/2020	23.97	23.28	94433737
12/3/2020	23.95	23.05	94466925
12/4/2020	23.91	23.29	94500463
12/5/2020	24.02	23.21	94533886
12/6/2020	24.07	23.53	94567766
12/7/2020	24.04	23.37	94601423
12/8/2020	24.05	23.28	94634952
12/9/2020	24.18	23.57	94668894
12/10/2020	24.27	23.37	94702550
12/11/2020	24.24	23.61	94736550
12/12/2020	23.97	23.33	94770147
12/13/2020	23.12	23.07	94803374
12/14/2020	23.04	22.95	94836429
12/15/2020	23.70	23.15	94869765
12/16/2020	23.71	23.39	94903441
12/17/2020	23.83	23.24	94936911
12/18/2020	23.99	23.36	94970556
12/19/2020	24.02	23.12	95003854
12/20/2020	23.90	23.44	95037605
12/21/2020	22.73	22.22	95069602
12/22/2020	20.94	19.99	95098381
12/23/2020	21.79	21.89	95129898
12/24/2020	22.06	22.24	95161917
12/25/2020	22.12	22.34	95194093
12/26/2020	22.02	22.47	95226451
12/27/2020	22.03	22.35	95258633
12/28/2020	22.04	22.31	95290754
12/29/2020	21.03	21.72	95322035
12/30/2020	20.99	22.08	95353825
12/31/2020	21.11	21.81	95385233
Average For The Month	23.12	22.81	
Total ⁽²⁾ :			1,018,113

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.
- (4) A new effluent meter was installed in April, 2017 during the system shutdown for maintenance.

TABLE 3

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

<u>Well</u>	<u>October 14, 2020 (ft msl)</u>	<u>November 2020</u>	<u>December 2020</u>
PW01	1163.62	----	----
PW02	Abandoned	----	----
PW03	1163.52	----	----
PW3S	1162.46	----	----
PW04	1162.27	----	----
PW05	1162.29	----	----
PW06	1162.66	----	----
PW07	1162.43	----	----
PW08	1163.92	----	----
PW09I	----	----	----
PW09O	1162.28	----	----
PW10	1162.57	----	----
PW11	1160.76	----	----
PW12	1163.85	----	----
PW13	1162.36	----	----
PW14	1161.48	----	----
PW15	1161.6	----	----
PW16	1161.39	----	----
PW17	1159.23	----	----
PW18	1162.3	----	----
PW19	1161.49	----	----
PW20	1160.66	----	----
PW21	1161.06	----	----
PW22	1162.34	----	----
PW23	1162.23	----	----
PW24	1160.68	----	----
PW25	1159.96	----	----
PW26	1159.31	----	----
PW27	1157.5	----	----
PW28	1163.65	----	----
PW29	1163.76	----	----
P01	1162.25	----	----
OW01	1164.92	----	----
W01A	1164.1	----	----
W01B	1164.15	----	----
W02	1163.37	----	----
W03A	1161.18	----	----
W03B	1161.55	----	----
W04A	1162.75	----	----
W04B	1162.67	----	----
W05	1162.34	----	----
W06R	1164.05	----	----
W07	1163.70	----	----
W08	1172.9	----	----
W09	1162.62	----	----
W10A	1161.01	----	----
W10B	1160.8	----	----
W11	1159.93	----	----
W12	1159.56	----	----
W13	1162	----	----
W14	1159.49	----	----
W16	1161.38	----	----
W17	1161.44	----	----
W18	1161.24	----	----

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

<u>Well</u>	<u>October 14, 2020 (ft msl)</u>	<u>November 2020</u>	<u>December 2020</u>
W19	Abandoned	----	----
W21	1159.61	----	----
W22	1161.07	----	----
W23	1159.63	----	----
W24A	1159.57	----	----
W25	1164.08	----	----
W26/W26R	1160.62	----	----
W27	1160.94	----	----
W28	1161.27	----	----
W29/W29R	1160.42	----	----
W30	1162.24	----	----
W31	1160.7	----	----
W32	1160.74	----	----
W33	1162.45	----	----
W34	1162.39	----	----
W35	1162.56	----	----
W36	1163.21	----	----
W39	Abandoned	----	----
W40/W40R	1161.01	----	----
W41	1162.11	----	----
W42	1163.19	----	----
W44	1162.26	----	----
W45	1162.35	----	----
W46	1162.12	----	----
W47	1160.83	----	----
W48	1161.19	----	----
W49	1161.84	----	----
W66	1163.89	----	----
W67	1163.86	----	----
W68A	1163.92	----	----
W68B	1163.81	----	----
W69	1162.64	----	----
W70B	Abandoned	----	----
River	----	----	----
IW01	1162.3	----	----
IW01A	1162.32	----	----
FP01	1160.07	----	----
FP02	1160.34	----	----
FP03	1159.19	----	----
FP04	1160.31	----	----
3M Basin	Water in both Basins	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	----	----
DFOWM 10A	Abandoned	----	----
DFOWM 11	----	----	----
DFOWM 12	----	----	----
W71	1166.1	----	----
W72	1164.43	----	----
W73	1163.01	----	----
W74	1162.27	----	----

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.

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

<u>Well</u>	October 14, 2020 (ft)	November 2020	December 2020
PW01	0.00	----	----
PW02	Abandoned	----	----
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	0.06	----	----
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

Well	October 14, 2020 (ft)	November 2020	December 2020
W18	0.00	----	----
W19	Abandoned	----	----
W21	0.00	----	----
W22	0.00	----	----
W23	0.00	----	----
W24A	0.00	----	----
W25	0.00	----	----
W26/W26R	0.00	----	----
W27	0.00	----	----
W28	0.00	----	----
W29/W29R	0.00	----	----
W30	0.00	----	----
W31	0.00	----	----
W32	0.00	----	----
W33	0.00	----	----
W34	0.00	----	----
W35	0.13	----	----
W36	0.00	----	----
W39	Abandoned	----	----
W40/W40R	0.05	----	----
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	Abandoned	----	----
River	----	----	----
IW01	0.00	----	----
IW01A	0.00	----	----
FP01	0.00	----	----
FP02	0.00	----	----
FP03	0.00	----	----
FP04	0.00	----	----
3M Basin	----	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	----	----
DFOWM 10A	Abandoned	----	----
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
Wauleco, Inc.
Wausau, WI

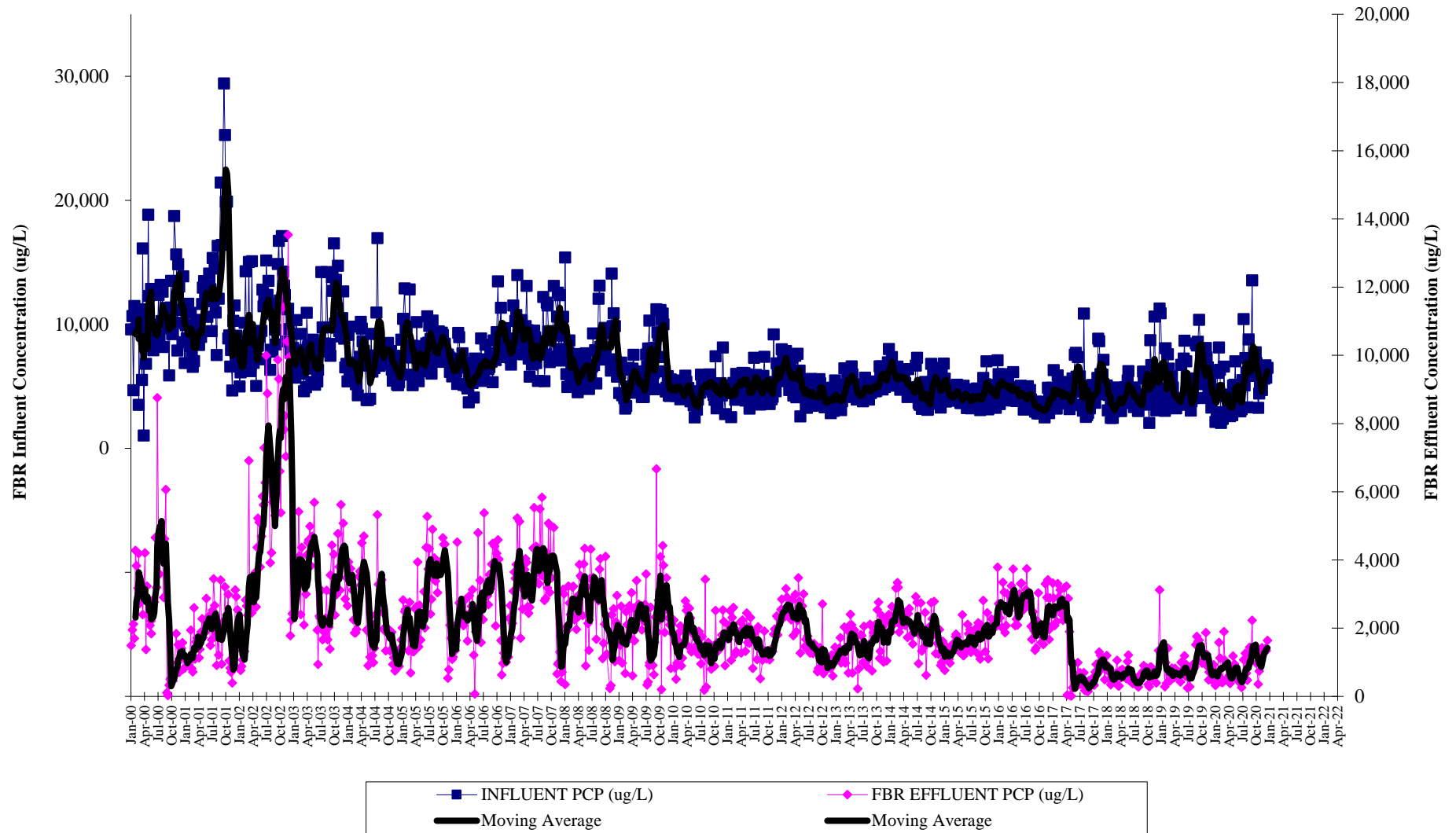
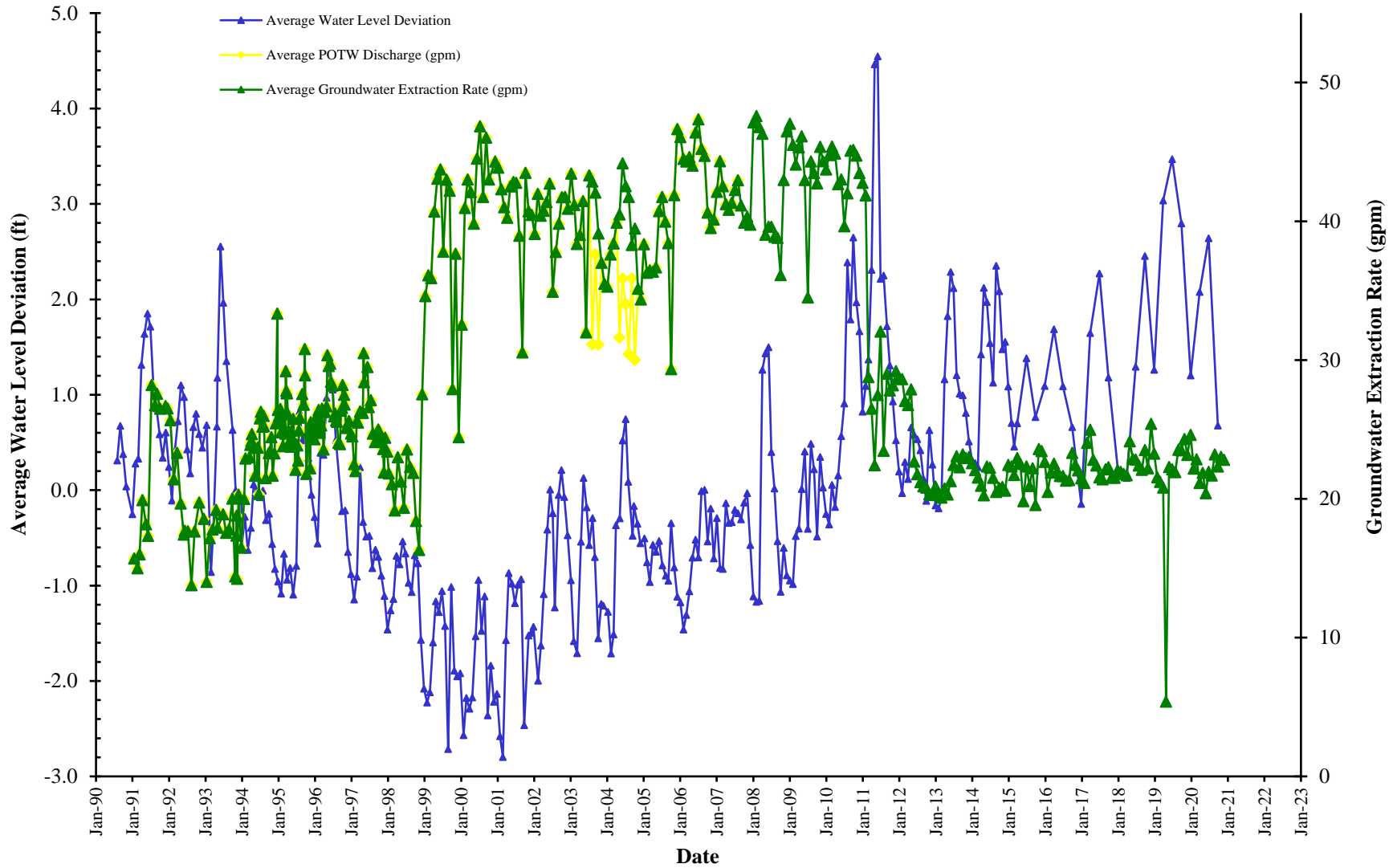


FIGURE 2

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.