



708 Heartland Trl.
Suite 3000
Madison, WI 53717

T 608.826.3600
TRCcompanies.com

July 8, 2020

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

Subject: 2020 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 2020 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

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

Bruce Iverson
Project Manager

Attachments: 2020 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 2020**

Summary of 2020 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 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 1.20 µg/L in April, 1.77 µg/L in May, and 1.43 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 15, <3.0 µg/L on May 13, and <3.0 µg/L on June 17, 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 2,600 µg/L to 7,015 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 2020	85	84	86
May 2020	85	84	91
June 2020	87	84	86

- The dissolved oxygen concentration in the influent to the FBR averaged 2.4 mg/L in April, 2.5 mg/L in May, and 2.1 mg/L in June 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 0.023 µg/L on April 15, <0.020 µg/L on May 13, and <0.020 µg/L on June 17, which are below the permit discharge limit of 1.6 µg/L. The mass loading for mercury in April was calculated at 0.0000585 lb/24 hours, which is below the permit discharge limit of 0.00048 lb/24 hours. The mass loading for mercury in May and June was calculated using half the detection limit of 0.01 µg/L, at 0.00000263 lb/24 hours in May and 0.00000245 lb/24 hours in June, 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 21.15 gpm for April, 21.87 gpm for May, and 20.40 gpm for June 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 April 2020 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 2020 are summarized in Table 4. Measurements show no product present in April 2020.

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 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	4/15/2020	9.2	2.4				<	
Chemical Oxygen Demand	mg/L	4/15/2020	52	45				21	
Chloride	mg/L	4/15/2020	210	210				220	
Dissolved Oxygen	mg/L	4/2/2020	2.4	1.3	7				
	mg/L	4/8/2020	2.5	1.2	7.4				
	mg/L	4/15/2020	2.6	1.3	7.4				
	mg/L	4/22/2020	2.4	1.4	7.4				
	mg/L	4/30/2020	2.3	1.4	5				
Nitrogen, Ammonia	mg/L	4/2/2020	0.4	0.4	0.4				
	mg/L	4/8/2020	0.6	0.5	0.4				
	mg/L	4/15/2020	0.4	0.3	0.4				
	mg/L	4/22/2020	0.4	0.4	0.4				
	mg/L	4/30/2020	0.5	0.4	0.3				
Nitrogen, Nitrate	mg/L	4/2/2020	<	<	<				
	mg/L	4/8/2020	<	<	<				
	mg/L	4/15/2020	<	<	<				
	mg/L	4/22/2020	<	<	<				
	mg/L	4/30/2020	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	4/15/2020	<	<				<	
Pentachlorophenol-Screen	µg/L	4/1/2020						1	
	µg/L	4/2/2020	2733	522	547			1	
	µg/L	4/3/2020						1	
	µg/L	4/4/2020						1	
	µg/L	4/5/2020						1	
	µg/L	4/6/2020						1	
	µg/L	4/7/2020						2	
	µg/L	4/8/2020	3714	527	522			1	
	µg/L	4/9/2020						2	
	µg/L	4/10/2020						2	
	µg/L	4/11/2020						2	
	µg/L	4/12/2020						2	
	µg/L	4/13/2020						2	
	µg/L	4/14/2020						1	
	µg/L	4/15/2020	3257	612	541		84	1	
	µg/L	4/16/2020						1	
	µg/L	4/17/2020						1	
	µg/L	4/18/2020						1	
	µg/L	4/19/2020						1	
	µg/L	4/20/2020						1	
	µg/L	4/21/2020						1	
	µg/L	4/22/2020	2600	377	263			1	
	µg/L	4/23/2020						1	
	µg/L	4/24/2020						1	
	µg/L	4/25/2020						1	
	µg/L	4/26/2020						1	
	µg/L	4/27/2020						1	

Table 1a
April 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	4/28/2020						1	
	µg/L	4/29/2020						1	
	µg/L	4/30/2020	4261	602	590			1	
pH	S.U.	4/2/2020	6.65	6.65	6.7				
	S.U.	4/8/2020	6.8	6.8	6.8				
	S.U.	4/15/2020	6.65	6.6	6.65				
	S.U.	4/22/2020	6.7	6.65	6.65				
	S.U.	4/30/2020	6.8	6.7	6.7				
Phosphorus, Ortho	mg/L	4/15/2020	<	<				<	
Phosphorus, Phosphate	mg/L	4/2/2020	0.6	0.5	0.5				
	mg/L	4/8/2020	0.7	0.6	0.6				
	mg/L	4/15/2020	0.4	0.4	0.4				
	mg/L	4/22/2020	0.4	0.4	0.3				
	mg/L	4/30/2020	0.5	0.4	0.4				
Solids, Total Suspended	mg/L	4/15/2020	13	20				4.4	
Mercury	µg/L	4/15/2020	0.27					0.023	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	4/15/2020	250		42		14	<	<
2,4,5-Trichlorophenol	µg/L	4/15/2020	<		21		5.4	<	<
2,4,6-Trichlorophenol	µg/L	4/15/2020	<		<		<	<	<
2,4-Dichlorophenol	µg/L	4/15/2020	<		<		<	<	<
2,4-Dimethylphenol	µg/L	4/15/2020	<		<		<	<	<
2,4-Dinitrophenol	µg/L	4/15/2020	<		<		<	<	<
2,6-Dichlorophenol	µg/L	4/15/2020	<		<		<	<	<
2-Chlorophenol	µg/L	4/15/2020	<		<		<	<	<
2-Methylphenol	µg/L	4/15/2020	<		<		<	<	<
2-Nitrophenol	µg/L	4/15/2020	<		<		<	<	<
3&4-Methylphenol	µg/L	4/15/2020	<		<		<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	4/15/2020	<		<		<	<	<
4-Chloro-3-Methylphenol	µg/L	4/15/2020	<		<		<	<	<
4-Nitrophenol	µg/L	4/15/2020	<		<		<	<	<
Pentachlorophenol	µg/L	4/15/2020	2700		350		110	<	<
Phenol	µg/L	4/15/2020	<		<		<	<	<

**Table 1b
May 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	5/13/2020	6.7	2.3				<	
Chemical Oxygen Demand	mg/L	5/13/2020	47	32				23	
Chloride	mg/L	5/13/2020	230	240				260	
Dissolved Oxygen	mg/L	5/7/2020	2.4	1.8	4.8				
	mg/L	5/13/2020	2.5	1.2	6.3				
	mg/L	5/22/2020	3.1	1.5	6.2				
	mg/L	5/27/2020	2	1	6.2				
Nitrogen, Ammonia	mg/L	5/7/2020	0.5	0.4	0.4				
	mg/L	5/13/2020	0.5	0.5	0.4				
	mg/L	5/22/2020	0.4	0.3	0.4				
	mg/L	5/27/2020	0.5	0.5	0.4				
Nitrogen, Nitrate	mg/L	5/7/2020	<	<	<				
	mg/L	5/13/2020	<	<	<				
	mg/L	5/22/2020	<	<	<				
	mg/L	5/27/2020	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	5/13/2020	<	<				<	
Pentachlorophenol-Screen	µg/L	5/1/2020						1	
	µg/L	5/2/2020						1	
	µg/L	5/3/2020						1	
	µg/L	5/4/2020						1	
	µg/L	5/5/2020						1	
	µg/L	5/6/2020						1	
	µg/L	5/7/2020	2687	550	356			1	
	µg/L	5/8/2020						2	
	µg/L	5/9/2020						3	
	µg/L	5/10/2020						3	
	µg/L	5/11/2020						3	
	µg/L	5/12/2020						2	
	µg/L	5/13/2020	5068	1181	878		164	2	
	µg/L	5/14/2020						3	
	µg/L	5/15/2020						2	
	µg/L	5/16/2020						1	
	µg/L	5/17/2020						1	
	µg/L	5/18/2020						1	
	µg/L	5/19/2020						1	
	µg/L	5/20/2020						1	
	µg/L	5/21/2020						1	
	µg/L	5/22/2020	5130	950	808			1	
	µg/L	5/23/2020						3	
	µg/L	5/24/2020						3	
	µg/L	5/25/2020						3	
	µg/L	5/26/2020						3	
	µg/L	5/27/2020	7015	876	969			2	

**Table 1b
May 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	5/28/2020						2	
	µg/L	5/29/2020						2	
	µg/L	5/30/2020						1	
	µg/L	5/31/2020						2	
pH	S.U.	5/7/2020	6.8	6.7	6.7				
	S.U.	5/13/2020	6.8	6.7	6.65				
	S.U.	5/22/2020	6.7	6.6	6.6				
	S.U.	5/27/2020	6.8	6.7	6.7				
Phosphorus, Ortho	mg/L	5/13/2020	<	<				<	
Phosphorus, Phosphate	mg/L	5/7/2020	0.7	0.6	0.6				
	mg/L	5/13/2020	0.6	0.5	0.5				
	mg/L	5/22/2020	0.4	0.3	0.3				
	mg/L	5/27/2020	0.6	0.5	0.5				
Solids, Total Suspended	mg/L	5/13/2020	14	23				5.4	
Mercury	µg/L	5/13/2020						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	5/13/2020	260	54	47			<	<
2,4,5-Trichlorophenol	µg/L	5/13/2020	91	<	17			<	<
2,4,6-Trichlorophenol	µg/L	5/13/2020	<	<	<			<	<
2,4-Dichlorophenol	µg/L	5/13/2020	<	<	<			<	<
2,4-Dimethylphenol	µg/L	5/13/2020	<	<	<			<	<
2,4-Dinitrophenol	µg/L	5/13/2020	<	<	<			<	<
2,6-Dichlorophenol	µg/L	5/13/2020	<	<	<			<	<
2-Chlorophenol	µg/L	5/13/2020	<	<	<			<	<
2-Methylphenol	µg/L	5/13/2020	<	<	<			<	<
2-Nitrophenol	µg/L	5/13/2020	<	<	<			<	<
3&4-Methylphenol	µg/L	5/13/2020	<	<	<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	5/13/2020	<	<	<			<	<
4-Chloro-3-Methylphenol	µg/L	5/13/2020	<	<	<			<	<
4-Nitrophenol	µg/L	5/13/2020	<	<	<			<	<
Pentachlorophenol	µg/L	5/13/2020	2600	810	510			<	<
Phenol	µg/L	5/13/2020	<	<	<			<	<

**Table 1c
June 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	6/17/2020	7.9	3.7				<	
Chemical Oxygen Demand	mg/L	6/17/2020	35	37				<	
Chloride	mg/L	6/17/2020	240	250				240	
Dissolved Oxygen	mg/L	6/2/2020	2.2	1	6.2				
	mg/L	6/10/2020	2	1.2	6				
	mg/L	6/17/2020	1.9	1	5.4				
	mg/L	6/24/2020	2.4	1	5.6				
Nitrogen, Ammonia	mg/L	6/2/2020	0.6	0.4	0.4				
	mg/L	6/10/2020	0.5	0.4	0.4				
	mg/L	6/17/2020	0.4	0.4	0.3				
	mg/L	6/24/2020	0.5	0.4	0.4				
Nitrogen, Nitrate	mg/L	6/2/2020	<	<	<				
	mg/L	6/10/2020	<	<	<				
	mg/L	6/17/2020	<	<	<				
	mg/L	6/24/2020	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	6/17/2020	<	<				<	
Pentachlorophenol-Screen	µg/L	6/1/2020						2	
	µg/L	6/2/2020	3529	673	687			1	
	µg/L	6/3/2020						1	
	µg/L	6/4/2020						1	
	µg/L	6/5/2020						1	
	µg/L	6/6/2020						1	
	µg/L	6/7/2020						1	
	µg/L	6/8/2020						1	
	µg/L	6/9/2020						1	
	µg/L	6/10/2020	4485	537	451			1	
	µg/L	6/11/2020						2	
	µg/L	6/12/2020						2	
	µg/L	6/13/2020						2	
	µg/L	6/14/2020						2	
	µg/L	6/15/2020						2	
	µg/L	6/16/2020						1	
	µg/L	6/17/2020	3690	446	541		219	1	
	µg/L	6/18/2020						2	
	µg/L	6/19/2020						1	
	µg/L	6/20/2020						3	
	µg/L	6/21/2020						3	
	µg/L	6/22/2020						3	
	µg/L	6/23/2020						1	
	µg/L	6/24/2020	4264	442	345			1	
	µg/L	6/25/2020						1	
	µg/L	6/26/2020						1	
	µg/L	6/27/2020						1	
	µg/L	6/28/2020						1	

**Table 1c
June 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	6/29/2020						1	
	µg/L	6/30/2020						1	
pH	S.U.	6/2/2020	6.8	6.7	6.65				
	S.U.	6/10/2020	6.8	6.65	6.65				
	S.U.	6/17/2020	6.75	6.65	6.65				
	S.U.	6/24/2020	6.75	6.65	6.65				
Phosphorus, Ortho	mg/L	6/17/2020	<	<				<	
Phosphorus, Phosphate	mg/L	6/2/2020	0.4	0.3	0.3				
	mg/L	6/10/2020	0.4	0.3	0.3				
	mg/L	6/17/2020	0.5	0.4	0.4				
	mg/L	6/24/2020	0.6	0.5	0.5				
Solids, Total Suspended	mg/L	6/17/2020	20	24				6.2	
Mercury	µg/L	6/17/2020						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	6/17/2020	240		43			<	<
2,4,5-Trichlorophenol	µg/L	6/17/2020	<		22			<	<
2,4,6-Trichlorophenol	µg/L	6/17/2020	<		<			<	<
2,4-Dichlorophenol	µg/L	6/17/2020	<		<			<	<
2,4-Dimethylphenol	µg/L	6/17/2020	<		<			<	<
2,4-Dinitrophenol	µg/L	6/17/2020	<		<			<	<
2,6-Dichlorophenol	µg/L	6/17/2020	<		<			<	<
2-Chlorophenol	µg/L	6/17/2020	<		<			<	<
2-Methylphenol	µg/L	6/17/2020	<		<			<	<
2-Nitrophenol	µg/L	6/17/2020	<		<			<	<
3&4-Methylphenol	µg/L	6/17/2020	<		<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	6/17/2020	<		<			<	<
4-Chloro-3-Methylphenol	µg/L	6/17/2020	<		<			<	<
4-Nitrophenol	µg/L	6/17/2020	<		<			<	<
Pentachlorophenol	µg/L	6/17/2020	3100		410			<	<
Phenol	µg/L	6/17/2020	<		<			<	<

Table 2a
April 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)
4/1/2020	16.14	22.66	86686384
4/2/2020	16.01	22.23	86718393
4/3/2020	16.06	21.93	86749965
4/4/2020	16.28	21.19	86780480
4/5/2020	16.19	20.48	86809977
4/6/2020	16.30	20.46	86839444
4/7/2020	16.16	20.30	86868673
4/8/2020	16.00	19.93	86897367
4/9/2020	14.62	20.56	86926978
4/10/2020	13.78	20.37	86956309
4/11/2020	12.80	19.49	86984373
4/12/2020	12.07	18.45	87010935
4/13/2020	10.85	17.83	87036609
4/14/2020	15.17	19.05	87064040
4/15/2020	17.41	22.16	87095944
4/16/2020	17.90	22.22	87127938
4/17/2020	18.45	21.82	87159364
4/18/2020	18.48	22.01	87191053
4/19/2020	18.57	21.76	87222385
4/20/2020	16.98	21.19	87252899
4/21/2020	18.62	21.70	87284153
4/22/2020	18.93	21.82	87315569
4/23/2020	18.95	22.12	87347424
4/24/2020	19.09	22.16	87379334
4/25/2020	19.09	21.66	87410525
4/26/2020	18.72	21.77	87441875
4/27/2020	18.93	21.68	87473098
4/28/2020	19.18	21.62	87504233
4/29/2020	19.08	21.90	87535766
4/30/2020	19.08	21.95	87567375
Average For The Month	16.86	21.15	
Total ⁽²⁾ :			913,623

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
May 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)
5/1/2020	19.22	21.92	87598942
5/2/2020	19.08	21.90	87630476
5/3/2020	19.03	22.30	87662595
5/4/2020	19.16	22.04	87694333
5/5/2020	18.62	21.81	87725734
5/6/2020	16.35	21.09	87756107
5/7/2020	18.15	21.78	87787464
5/8/2020	18.38	22.07	87819250
5/9/2020	18.33	21.76	87850580
5/10/2020	17.87	21.73	87881872
5/11/2020	16.95	20.87	87911919
5/12/2020	16.74	20.62	87941609
5/13/2020	18.32	22.35	87973800
5/14/2020	13.90	15.17	87995650
5/15/2020	17.73	25.30	88032075
5/16/2020	19.27	25.57	88068896
5/17/2020	19.36	25.79	88106036
5/18/2020	19.49	25.64	88142961
5/19/2020	18.12	23.84	88177290
5/20/2020	18.16	23.46	88211076
5/21/2020	18.25	22.86	88243995
5/22/2020	18.26	22.80	88276823
5/23/2020	18.31	22.39	88309071
5/24/2020	18.26	22.52	88341506
5/25/2020	18.23	22.43	88373799
5/26/2020	18.24	22.39	88406040
5/27/2020	18.33	22.49	88438430
5/28/2020	18.31	22.05	88470187
5/29/2020	18.18	22.22	88502188
5/30/2020	18.27	21.79	88533566
5/31/2020	5.81	6.94	88543555
Average For The Month	17.76	21.87	
Total ⁽²⁾ :			976,180

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
June 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)
6/1/2020	5.57	10.41	88558545
6/2/2020	7.99	13.95	88578628
6/3/2020	8.20	13.98	88598757
6/4/2020	11.87	17.93	88624581
6/5/2020	12.57	18.36	88651026
6/6/2020	15.90	20.37	88680356
6/7/2020	17.67	21.87	88711849
6/8/2020	15.08	19.52	88739954
6/9/2020	16.66	22.09	88771767
6/10/2020	17.40	23.12	88805054
6/11/2020	17.54	22.87	88837992
6/12/2020	17.74	22.75	88870758
6/13/2020	17.88	22.17	88902685
6/14/2020	17.97	22.06	88934454
6/15/2020	18.05	21.81	88965855
6/16/2020	18.17	21.42	88996704
6/17/2020	18.07	21.43	89027560
6/18/2020	18.21	20.99	89057785
6/19/2020	18.26	22.32	89089926
6/20/2020	18.19	22.51	89122347
6/21/2020	17.98	22.58	89154867
6/22/2020	18.25	21.91	89186415
6/23/2020	18.73	21.42	89217260
6/24/2020	18.90	21.47	89248171
6/25/2020	19.11	20.91	89278284
6/26/2020	19.49	20.89	89308359
6/27/2020	19.98	20.34	89337650
6/28/2020	20.37	20.14	89366653
6/29/2020	20.72	19.70	89395023
6/30/2020	20.83	20.85	89425043
Average For The Month	16.78	20.40	
Total ⁽²⁾ :			881,488

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**

Well	April 23, 2020 (ft msl)	May 2020	June 2020
PW01	1164.54	----	----
PW02	Abandoned	----	----
PW03	1164.15	----	----
PW3S	1163.86	----	----
PW04	1163.72	----	----
PW05	1163.75	----	----
PW06	1164	----	----
PW07	1163.81	----	----
PW08	1164.57	----	----
PW09I	----	----	----
PW09O	1163.83	----	----
PW10	1163.93	----	----
PW11	1162.58	----	----
PW12	1164.51	----	----
PW13	1163.85	----	----
PW14	1163.21	----	----
PW15	1163.34	----	----
PW16	1162.94	----	----
PW17	1159.37	----	----
PW18	1163.8	----	----
PW19	1162.60	----	----
PW20	1163.09	----	----
PW21	1162.81	----	----
PW22	1163.76	----	----
PW23	1163.69	----	----
PW24	1162.58	----	----
PW25	1161.68	----	----
PW26	1161.80	----	----
PW27	1161.57	----	----
PW28	1164.23	----	----
PW29	1164.33	----	----
P01	1163.71	----	----
OW01	1165.72	----	----
W01A	1164.81	----	----
W01B	1164.86	----	----
W02	1163.92	----	----
W03A	1162.91	----	----
W03B	1162.74	----	----
W04A	1164.09	----	----
W04B	1164.02	----	----
W05	1163.76	----	----
W06R	1164.73	----	----
W07	1164.58	----	----
W08	1175.16	----	----
W09	1162.99	----	----
W10A	1161.71	----	----
W10B	1161.66	----	----
W11	1161.51	----	----
W12	1161	----	----
W13	1162.39	----	----
W14	1161.26	----	----
W16	1163.07	----	----
W17	1163.07	----	----
W18	1161.55	----	----
W19	Abandoned	----	----

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

Well	April 23, 2020 (ft msl)	May 2020	June 2020
W21	1161.25	----	----
W22	1162.85	----	----
W23	1161.37	----	----
W24A	1161.34	----	----
W25	1164.86	----	----
W26/W26R	1161.59	----	----
W27	1162.6	----	----
W28	1161.55	----	----
W29/W29R	1161.38	----	----
W30	1163.7	----	----
W31	1161.25	----	----
W32	1161.26	----	----
W33	1163.84	----	----
W34	1163.8	----	----
W35	1163.89	----	----
W36	1164.21	----	----
W39	Abandoned	----	----
W40/W40R	1162.71	----	----
W41	1163.59	----	----
W42	1164.37	----	----
W44	1163.7	----	----
W45	1163.91	----	----
W46	1163.58	----	----
W47	1162.62	----	----
W48	1163.01	----	----
W49	1163.37	----	----
W66	1164.57	----	----
W67	1164.53	----	----
W68A	1164.54	----	----
W68B	1164.46	----	----
W69	1164.3	----	----
W70B	Abandoned	----	----
River	----	----	----
IW01	1163.78	----	----
IW01A	1163.74	----	----
FP01	1162.26	----	----
FP02	1162.21	----	----
FP03	1160.34	----	----
FP04	1162.35	----	----
3M Basin	Water in both Basins	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	----	----
DFOWM 10A	Abandoned	----	----
DFOWM 11	----	----	----
DFOWM 12	----	----	----
W71	1166.33	----	----
W72	1165.16	----	----
W73	1164.23	----	----
W74	1163.71	----	----

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**

Well	April 23, 2020 (ft)	May 2020	June 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	0.00	----	----
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	April 23, 2020 (ft)	May 2020	June 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	0.00	----	----
W36	0.00	----	----
W39	Abandoned	----	----
W40/W40R	0.00	----	----
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	0.00	----	----
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

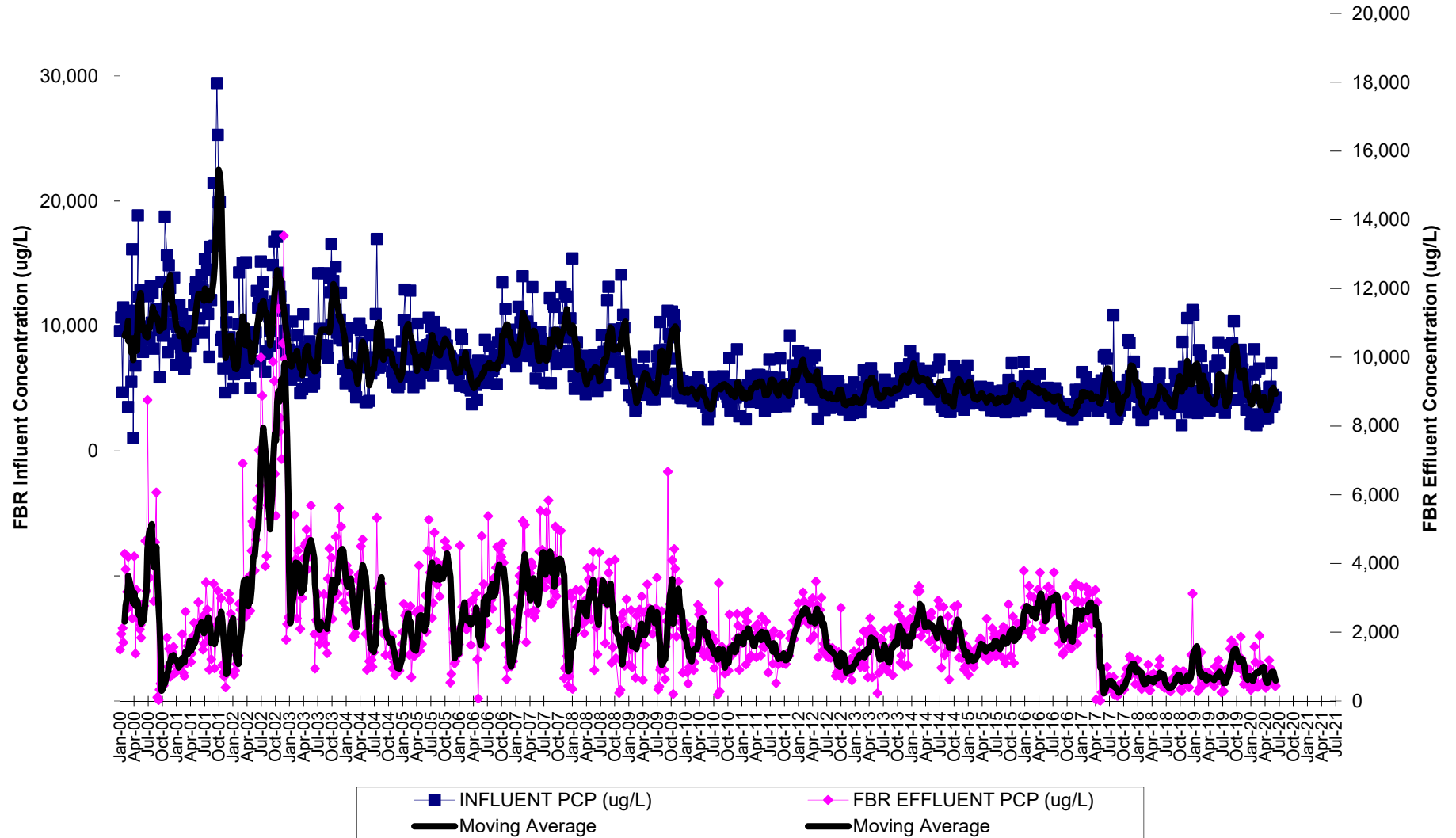
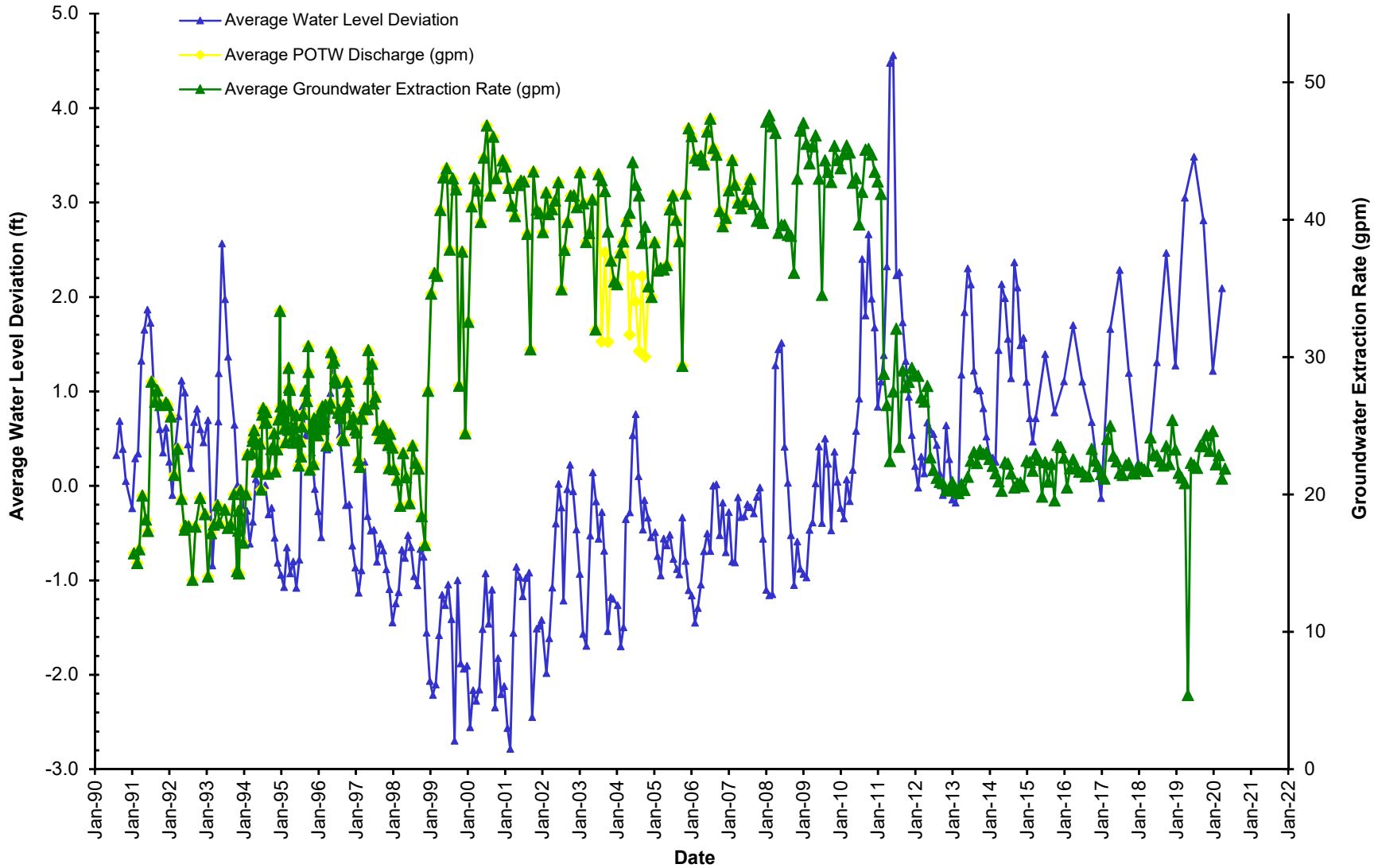


Figure 2

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.