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April 30, 2020

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

Subject: 2019 Annual Groundwater Monitoring Report
BRRTS #02-37-000006
Wauleco, Inc.
Wausau, Wisconsin

Dear Mr. Thompson:

On behalf of Wauleco, Inc., TRC Environmental Corporation (TRC) is submitting one copy of the 2019 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 (winter and summer) groundwater monitoring events at the Wauleco site.

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

Sincerely,

TRC

Ken Quinn, P.G.
Senior Hydrogeologist

Bruce Iverson, P.E.
Project Manager

Enclosure: 2019 Annual Groundwater Monitoring Report (1 copy)

cc: Evan Schreiner – Wauleco (3 copies)
Tom Dushek – TRC, Wauleco (1 copy)
David Crass – Michael, Best & Friedrich, L.L.P. (1 copy)

2019 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

April 2020

Prepared For:
Wauleco, Inc.
Wausau, Wisconsin
• • •
Prepared By:
TRC, Inc.
Madison, Wisconsin

Project No. 189597

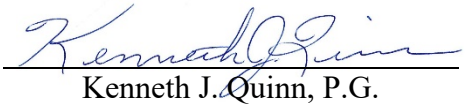
2019 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

April 2020

Prepared by:  4/30/2020

Tom Dushek — Date
Environmental Scientist

Reviewed by:  4/30/2020

Kenneth J. Quinn, P.G. — Date
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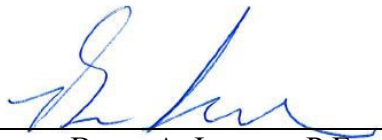
Approved by:  4/30/2020

Bruce A. Iverson, P.E. — Date
Project Manager

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2019 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC. WAUSAU FACILITY

INTRODUCTION

This 2019 Annual Groundwater Monitoring Report presents a summary of groundwater quality data collected from the Wauleco, Inc. facility in Wausau, Wisconsin (see Drawing 1) in 2019. The focus of this report is on groundwater quality data collected throughout the year during groundwater remediation system operations and analyses from groundwater samples collected during the semi-annual groundwater monitoring rounds (winter and summer) for 2019. For comparison purposes, this report includes historical groundwater data collected at the site since January 1987.

BACKGROUND

Periodic groundwater sampling has been conducted and recorded at the Wauleco facility since 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, the following changes have been made to the groundwater extraction and treatment system at the Wauleco property:

- The infiltration gallery was discontinued in 1992.
- Pumping well PW9 was added in 1992 and PW10 through PW16 were added 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) were installed near the northern property line in September 1999.
- An upgraded control system, with additional monitoring and control capabilities, was added in 1999.
- In the fall of 2007, four focused pumping wells, FP1, FP2, FP3, and FP4 were installed and added to the system. These wells were started in January 2008. Extraction wells PW9, PW22, PW28, and PW29 were taken off the piping system to make room for the new focused pumping wells.
- In early 2011 mobile product recovery was deemed complete and that the mobile product recovery system should be shut down (see correspondence with Wisconsin Department of Natural Resources (WDNR) in Appendix A). Further, the groundwater recovery pumping

rate was revised to assess what effect it had on groundwater concentrations as part of a long-term closure evaluation. The plan agreed upon with the WDNR included:

- Reducing the groundwater extraction system's pumping rate from 40-45 gpm to 22-30 gpm, near the 20 gpm rate used prior to implementation of the enhanced product recovery rate in 1999.

- Monthly water level monitoring and preparation of water table maps for a period of three months and then quarterly to assess seasonal changes. This was extended through October 2012 to measure the effect of the water supply lateral leak (as discussed in more detail in this report under Groundwater Elevations).

- The reduced pumping approach was implemented on March 2, 2011 by reducing the pumping rate to approximately 29 gpm. The pumping rate was further reduced from approximately 29 gpm to 22 gpm on June 7, 2012. WDNR concurrence was secured before each of these pumping rate reductions were implemented.

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

- Monitoring wells W6, W15, W20, W37, and W38 were abandoned in 1993.

- Monitoring well W43 was lost during utility work prior to 1993.

- Monitoring wells W6R, W68A, W68B, W69 and W70B were installed in 1993.

- Groundwater sampling reduced from quarterly to semi-annually (summer and winter) in 1997. The wells and parameters included in the semi-annual monitoring program are summarized in Table 1.

- Beginning in January 2010, five groundwater monitoring wells on the 3M site, located north of the Wauleco site, were added to the semi-annual monitoring program for pentachlorophenol (PCP) analysis. Results are listed in the tables in Appendix B2.

- As agreed to in November 2010, Wauleco continued to remove apparent mobile product using the socks in wells approach, to assess whether product in wells is representative of mobile product on the water table or due to product trapped in the wells.

- A group of eight wells in the spring and nine wells in the fall of 2011, and nine wells in the spring of 2012 were sampled for PCP to determine if the reduced pumping rate had an adverse effect on groundwater concentrations near the site. Results are listed in the tables in Appendix B2.

- With WDNR approval, in July 2012, VOCs, except naphthalene, were eliminated from the July 2012 groundwater sampling event. Starting in 2013, VOC analysis was limited to naphthalene, 1,2,4 trimethylbenzene, and xylenes.

- With WDNR approval, in 2013 and 2014 (refer to TRC letter dated October 30, 2013 regarding revisions to groundwater monitoring plan and WDNR's conditional approval letter dated March 18, 2014), the groundwater monitoring program was revised to include natural attenuation parameters; dissolved iron and manganese, sulfate, and total organic carbon. Chloride was eliminated, along with nitrite plus nitrate which was replaced with nitrate. Wells W14 and W69 were eliminated; wells FP2 and PW17 were added. 3M wells DFOMW9 and DFOMW10A were also eliminated and abandoned in 2015.

- In 2015, monitoring wells PW2 and W70B, that were located within the footprint of the Soil Mound, were abandoned during Soil Mound removal activities. Additional monitoring wells W71, W72, W73 and W74 were installed to provide additional information concerning water elevations and water quality to the south and west of the Wauleco site.

- In 2015, monthly water level monitoring and quarterly water table map preparation was discontinued as recommended in the TRC document titled "2014 Annual Groundwater Report" dated April 2015. Beginning in 2015, quarterly water level monitoring and semi-annual water table map preparation was performed and continues.

- Monitoring wells W19, W26, W29, W39 and W40 were abandoned in March, 2019 due to Thomas Street reconstruction by the City of Wausau. Replacement wells W26R, W29R and W40R were installed in June, 2019. Monitoring wells W19 and W39 were not replaced. Abandonment forms and replacement well forms are included in Appendix F.

- The Groundwater Monitoring Report is submitted on an annual basis following completion of the year's monitoring.

The term "free product" has historically been used in this project to describe the light, non-aqueous phase liquid (LNAPL) that could move into a monitoring well or extraction well. In this report the term "free product" is being replaced by "mobile product." The term "mobile product" is limited to the observation that the LNAPL has moved into a monitoring well or extraction well.

SAMPLING EVENT SUMMARY

This report provides a presentation and interpretation of data collected at Wauleco beginning in 1987 and continuing through December 2019. Sampling activities since 1992 have been conducted in general accordance with Wauleco's GMP and the WDNR's conditional approvals, summarized above. During each sampling event, water levels and product thickness measurements are first recorded, followed by the purging of each well sampled. Groundwater monitoring wells sampled during 2019 are summarized in Table 1. The locations of the groundwater monitoring and extraction wells are shown on Drawing 2. The wells sampled during the first (January) and second (July) semi-annual round are summarized in Table 2. No wells planned to be sampled contained mobile LNAPL, so groundwater quality samples were collected from all planned wells. Groundwater elevation measurements collected during the January 4, and July 3, 2019 rounds are included in Table 3.

The 2016 and 2017 Annual Groundwater Monitoring Reports included an evaluation of groundwater elevations associated with the October through November 2016 Lake Wausau drawdown period.

However, groundwater elevations have recovered from this event and are no longer presented in that format in this year's report.

Groundwater samples were submitted as appropriate for laboratory analysis of; nitrate (Method EPA 9056A); dissolved mercury (Method EPA 7470A); dissolved iron and manganese (Method EPA 6010C); sulfate (Method EPA 9056A); total organic carbon (Method EPA 9060A); naphthalene (EPA Method 8020A); phenolic compounds (Method EPA 8270D); volatile organic compounds (VOC's) (Method EPA 8020A); and total petroleum hydrocarbons (TPH) (Method EPA 8015). A summary of the January and July 2019 groundwater analytical results is provided in Tables 4a and 4b, respectively; laboratory reports are included in Appendices D1 and D2, respectively.

PRESENTATION OF RESULTS

Discussions of the following data are presented in the subsections below:

- Groundwater Elevations
- Apparent Product Thickness
- Product Recovery
- Dissolved PCP Recovery
- Total PCP Recovered
- Groundwater Quality

Groundwater Elevations

Figure 1 shows the historical groundwater elevation at this site as the average water level deviation[1]. As shown on Figure 1, the groundwater elevation has generally risen throughout 2009 and 2010, and by July 2010 the groundwater elevation was at an average water level deviation of 1.0 ft. The groundwater elevation spiked up to an average water level deviation of 4.61 ft in June 2011 due to a major leak in the City of Wausau's (City) water supply lateral near the intersection of Thomas Street and Cleveland Avenue. This leak was repaired in late June 2011 and then the average water level deviation dropped to 0.58 ft. in December 2011. The groundwater elevation in 2012 returned to a normal pattern and was at an average water level deviation between 0.0 and 1.0 ft. In 2013, the groundwater elevation ranged from an average water level deviation between 0.0 and 2.5 ft. indicating a wet spring and summer. In 2014, the average water level deviation rose above 1.5 ft in April and stayed between 1.2 and 2.5 ft. the rest of the year, indicating a wet spring and fall. In 2015, groundwater elevation measurements were reduced to quarterly beginning in April. The average water level deviation stayed between 0.57 and 1.5 ft. the entire year. In 2017 and 2018, the average

[1] The average water level deviation is an index for tracking the average change in groundwater at the site and consists of calculating, for selected on-site wells, the deviation of each month's water level from the well's historical average, and then averaging the deviations for all selected wells.

water level deviation began the year at a low level (around 0.0 ft) and increased to over 2 ft. in the summer and fall. In 2019, the average water level deviation began the year at a higher than normal level (at 1.31 ft) and increased to more than 3 ft. in the spring and summer. The average water level deviation was 2.82 ft in October 2019 indicating a very wet year.

As agreed with WDNR in February 2011 (see correspondence in Appendix A), the mobile LNAPL recovery system was terminated, which included reducing the groundwater extraction rates. The pumping rate was reduced from approximately 43 gpm (January and February 2011 average) to between 22.5 and 32 gpm beginning in March 2011. The pumping rate was further reduced from approximately 28 gpm to 22 gpm beginning in June 2012. The configuration of the January and July 2019 water table maps (Drawing 3 and 4, respectively) show a capture zone extending to approximately 200 ft. in January and 100 ft. in July downgradient of the east property line adjacent to extraction wells FP01 and FP02.

Apparent Product Thickness

The apparent product thicknesses during January and July 2019 are shown on Drawings 5 and 6, respectively. Apparent product thickness represents a measurable thickness of product that has moved into a monitoring well. As shown in the following table, only two monitoring wells and four extraction wells showed apparent mobile product in 2019, and sporadically at that. This illustrates that the apparent mobile product at the site is thin and isolated to very small areas.

Well	January 2019 Apparent Product Thickness (ft)	April 2019 Apparent Product Thickness (ft)	July 2019 Apparent Product Thickness (ft)	October 2019 Apparent Product Thickness (ft)
W04A	0.03	0.0	0.03	0.0
W07	0.13	0.23	0.0	0.0
W35	0.0	0.0	0.02	0.0
W40/W40R	0.03	NM	0.0	0.0
PW16	0.03	0.0	0.02	0.0
PW19	0.02	0.0	0.0	0.0

NM = Not Measured; see explanation below

In late 2009 a socks in wells approach was implemented to remove small quantities of LNAPL in wells to determine whether the LNAPL returns. This has been described in the Annual Groundwater Monitoring Reports since then. This practice is still in effect where apparent product thickness is present.

As shown in the table above, mobile product was detected at six wells at one or two events throughout the year. Each of these product appearances occurred while pumping 13 extraction wells and demonstrates that very limited areas of mobile product exists on-site. A water level and LNAPL measurement was not made in well W40 in April 2019, because it was abandoned prior to April, to allow for Thomas Street construction, and was not replaced (as W40R) until June 2019, after construction was nearly completed.

Product Recovery

Historical product recovery is summarized in the following table. No product was recovered in 2019.

Year	Product Recovery (gallons)
1991 through 1997	38,705
1998	12,901
1999 – 1st year with new wells	37,500
2000	31,540
2001	13,987
2002	3,287
2003	822.1
2004	457.6
2005	760.1
2006	3,513.2
2007	547.7
2008 – 1st year with 4 new focused pumping wells	1,964.4
2009	1,198.3
2010	80.8
2011	4.8
2012	0.0
2013	0.0
2014	0.0
2015	0.0
2016	0.0
2017	0.0
2018	0.0
2019	0.0
Total	147,269

Dissolved Phase PCP Recovery

Dissolved phase PCP is removed through groundwater extraction. The dissolved phase PCP concentration, as influent to the treatment system, is shown in Table 5. During 2019, a total of 10.88 million gallons of water were treated through the fluidized bed reactor (FBR) system. The average PCP concentration of the influent water was 5,609 micrograms per liter (µg/L), and the average PCP concentration in the treatment system effluent was 1.81 µg/L. This translates to 510 pounds (lb) of PCP removed during 2019.

The average PCP concentration of the treatment system influent, as shown in the following table, has declined since 2000, but appears to have stabilized since 2010 between 4,000 ug/L and 6,000 ug/L.

Year	Average Annual Treatment System Influent Concentration (µg/L)
2000	10,226
2001	11,988
2002	9,979
2003	8,566
2004	7,097
2005	7,958
2006	7,199
2007	9,159
2008	7,533
2009	6,213
2010	4,678
2011	5,104
2012	4,966
2013	4,966
2014	5,142
2015	4,377
2016	4,223
2017	4,845
2018	4,428
2019	5,609

Total PCP Recovered

The mass of PCP recovered for each of the last 24 years is as follows:

Total PCP Recovered			
Year	PCP in Product Recovered[1] (lbs)	PCP in Water[2] (lbs)	Total PCP Recovered (lbs)
Jan. 1991 – Sept. 1996	10,274	5,518	15,792
Oct. 1996 – Sept. 1997	1,942	1,220	3,162
1998 prior to new wells	4,077	1,460	5,537
1999 1st year with new wells	12,645	2,550	15,195
2000	10,635	2,212	12,847
2001	4,716	2,146	6,862[3]
2002	1,108	1,766	2,874
2003	277	1,408	1,685
2004	153	1,182	1,335
2005	254	1,332	1,586
2006	1,172	1,359	2,531
2007	183	1,628	1,811
2008	655	1,380	2,035
2009	400	1,194	1,594

Total PCP Recovered			
Year	PCP in Product Recovered[1] (lbs)	PCP in Water[2] (lbs)	Total PCP Recovered (lbs)
2010	27	886	913
2011	2	671	673
2012	0	510	510
2013	0	473	473
2014	0	481	481
2015	0	422	422
2016	0	406	406
2017	0	459	459
2018	0	442	442
2019	0	510	510
Total Project to Date	48,520	31,615	80,135

1. Assumes 5 percent PCP in product, based on the original product used and a product specific gravity of 0.8. The 5% PCP in product assumption overestimates the mass of PCP in product recovered based on lower percent PCP in product as shown in the Residual Phase LNAPL Investigation Technical Memorandum (TRC, 2019).
2. For Jan. 1991 through Jan. 1999 the calculations use an estimated 10,000 ug/L average PCP in influent and measured pumping rates. For Feb. 1992 through current the calculations use the average concentration removed based on results from three to five sampling rounds per month and measured pumping rates.
3. The Total PCP recovered for 2001 was corrected from previous reports.

Groundwater Quality

The historical analytical results for each monitoring well location are provided in Appendix B; the analytical results for the 2019 sampling rounds are summarized in Tables 4a and 4b. Time trend graphs for PCP are provided in Appendix C. Isoconcentration maps for PCP; naphthalene; total petroleum hydrocarbons (TPH); 1,2,4-Trimethylbenzene; and total xylene concentrations are provided on Drawings 7 through 11, respectively.

As noted above, all planned wells were sampled during both sampling events in 2019.

PCP was detected in a sample from well W71 in July 2019, at an estimated concentration of 2.1 ug/L. This is a background well and has been below the reporting limits (<3.0 ug/L) since sampling started in 2015. Therefore, it is assumed that this is a laboratory error (i.e., a false positive). If there are detections at this well in the future, additional evaluation will be considered.

Following is a summary of changes or trends by compound compared to the 2018 Annual Groundwater Monitoring Report:

- **PCP**
  Areal Extent – The areal extent and distribution of PCP (Drawing 7) in 2019 is generally similar to the 2014 through 2017 isoconcentration maps. The 2018 PCP isoconcentration map showed a separation of the localized high concentration at well W29 from the southern most lobe of PCP. This southern lobe of PCP begins at wells W41 and W27 and extends east, downgradient, to slightly past well W11. However, with the increase in PCP at well W26R in 2019, probably due to the proximity of the residual phase LNAPL to the north, these two lobes are blended together again in 2019.

PCP in excess of 3,000 ug/L, as shown by the 3,000 ug/L contour line on Drawing 7, extends around the on-site extraction wells (with an average influent concentration of 5,600 ug/L) and is shown to extend to the southeast, to well W27. This extent is significantly smaller than the extent of this contour in the 2018 PCP isoconcentration map. In addition, the 3,000 ug/L and 1,000 ug/L contour lines around well DFOMW-11 in 2018 (with a concentration of 4,100 ug/L) have shrunk back, with the PCP at this well dropping to below 1,000 ug/L (to 240 ug/L) in 2019. The time-concentration graph for well DFOMW-11 (Appendix C) is variable, but declining. Further sampling is needed to assess if this declining extent of the 3,000 ug/L and 1,000 ug/L contour lines will continue; this further sampling will occur as part of the ongoing groundwater monitoring being performed.

Appendix E includes PCP concentration-distance graphs along each of the three profiles, shown on the map in Figure E-1, to illustrate the concentration decline down the groundwater gradient southeast, east and northeast of Wauleco:

- Figure E-2 shows the concentration-distance profile southeast of Wauleco, from well W41 to W21. This shows that the concentration trend is flat between wells W41 and W27, in the vicinity where there is residual phase product present. However, downgradient of well W27 the PCP concentration degrades rapidly to or near non-detect at well W21.

- Figures E-3 and E-4 show the concentration distance profile east of Wauleco, through wells W22 to W21. Figure E-3 shows the profile for all dates, which is fluctuating due to the variable concentrations at wells W26R and W29R. Figure E-4 shows the same profile for selected dates, when the apparent groundwater flow direction occurs in an easterly direction, so that the concentrations at wells W26R and W29R are not due to southerly flow, causing the PCP concentration to be elevated due to the short flow path from residual phase product to these wells. This situation is described further under the paragraph titled Wells W26R and W29R.

- Figure E-5 shows the concentration-distance profile northeast of Wauleco, from well DFOMW12 to well W18. This shows the concentration decline from historically over 1,000 ug/L at DFOMW12 (i.e., 2,300 ug/L in July 2018 and 9,500 ug/L in July 2012) down to less than 10 ug/L at well W13, and generally non-detect at well W18. However, the concentration at DFOMW12 has declined to 400 ug/L in 2019 (see time-concentration graph in Appendix C). If this reduction continues, it will clearly demonstrate that the biodegradation of PCP within the source area of this lobe is significantly reducing source concentration for this lobe of the PCP plume.

3M Wells – The following discussion of PCP around the 3M wells is consistent with the 2018 report, with the substantive updates that PCP at wells DFOMW12 and W02 continue to decline. The distribution of PCP concentrations on Drawing 7 includes several 3M wells north of the site. As shown on this drawing, there is a lobe of dissolved phase PCP present north of the site, extending from well W2 through 3M wells DFOMW-12 and DFOMW-11.

Based on groundwater flow directions and downgradient groundwater quality, this lobe of PCP is shown to be naturally biodegrading. The bases for this observation are as follows:

- Groundwater flow in this area of PCP between wells W2 and DFOMW-11 (see Drawings 3 and 4) is toward well W28. Historically, well W28 has had PCP concentrations of up to 10,000 ug/L (see 1988 in Appendix C) but declined to non-detect in 2002. Well W28 has stayed at non-detect or very low concentrations since that time. A similar history has occurred at adjacent wells W9 and W18, although W18 showed a relatively small increase in 2011 (relative to concentrations at adjacent well W10A).

- The redox conditions in this area of the PCP plume appears to be more aerobic than the remainder of the plume, based on the presence of nitrate-N and the low concentration of TPH (see Appendix B1) in well W28. Similar redox conditions have been present at adjacent well W18 for the majority of time since 1999 and occasionally at W9. At W28 in 2011, the nitrate-N decreased and TPH increased, indicating somewhat more reducing conditions. This is consistent with the small rise in PCP concentration at W28 in 2011. The cause for these less anaerobic conditions is probably due to a combination of the lower TPH concentrations in this area and the infusion of dissolved oxygen into the plume from the sides of the plume and from surface recharge.

- Based on the groundwater flow directions in this area, the history of redox and PCP concentrations, it appears that biodegradation of PCP is occurring in the area between DFOMW-11 and W28. The biodegradation of PCP in this area would be occurring in the same manner as in the FBR, that is, in an area with some dissolved oxygen.

- The biodegradation shown at downgradient well W28, etc. is also occurring within the upgradient, higher concentration areas (i.e., at wells W02, DFOMW11 and DFOMW12). This is demonstrated by the very distinct decline in PCP in upgradient well W02 over its history (from mobile phase product and PCP concentrations over 10,000 ug/L prior to 2003 to less than 300 ug/L in 2019). This is supported by the observed declines in PCP at well DFOMW-12 (see time-concentration graphs in Appendix C).

Wells W09, W18, and W28

The PCP concentration at well W18 (2 ug/L in 2019) continues to be low or non-detect downgradient of significant PCP concentrations. This pattern at W18, and adjacent wells W09 (1.8 ug/L in 2019) and W28 (<3 ug/L in 2019), demonstrates the effectiveness of natural attenuation in this area.

Wells W26 and W29

The PCP concentrations for wells W26 and W29 are shown in the following table from 2009 to 2019. These two wells are located near the residual phase LNAPL footprint (see map of residual phase LNAPL in Appendix E) and PCP concentrations at these wells would reflect the PCP leached from the residual phase LNAPL and the subsequent degradation of PCP that would occur during flow downgradient of the residual phase LNAPL.

Date Sampled	W26 (µg/L)	W29 (µg/L)
July, 2009	190	7.7
July, 2010	2,900	50
July, 2011	1,100	1,700
July, 2012	540	1,800
July, 2013	120	6.4
July, 2014	33	690
July, 2015	2,000	3,300
July, 2016	570	6,600
July, 2017	19	5,100
July, 2018	4.5	1,100
July, 2019	1,800	410

With these wells proximity to the residual phase LNAPL, small changes in groundwater flow directions may result in significant changes in PCP concentrations at these wells. When groundwater flow has a component of north to south flow, the travel time between the residual phase LNAPL and these wells can be small. Therefore, there would be less degradation of PCP, resulting in higher PCP concentrations. When flow is consistently from west to east, the flow line from the residual phase LNAPL to these wells would be much longer, with significant degradation occurring. Under this condition, PCP concentrations would fall.

Wells W2, W3A, W6R, and W40 – Concentrations from the wells that had product removed in 2009 (W2, W3A, W6R, and W40) ranged from 260 ug/L at W2 to 2,000 ug/L at W40R. Results since 2010 are summarized as follows:

Date	W2	W3A	W6R	W40
July, 2010	2,500	1,300	4,500	8,100
July, 2011	970	640	3,900	6,400
July, 2012	2,000	800	1,000	10,000
July, 2013	1,700	540	3,300	8,300
July, 2014	3,000	450	1,500	8,500
July, 2015	1,900	380	3,200	6,800
July, 2016	1,500	780	210	9,500
July, 2017	830	680	170	19,000
July, 2018	750	500	97	9,600
July, 2019	260	610	2,400	2,000 (W40R)

Monitoring wells W2, W3A, W6R, and W40/W40R are within the residual phase product footprint. Therefore, these fluctuations are to be expected following removal of mobile phase product in an area.

Well W36 – PCP concentrations at well W36, located within the central part of the site, have gone from having mobile product in the early 1990s, to PCP concentrations greater than 6,000 µg/L in the early 1990s to having <31 µg/L since 2007. The presence of chloroform from at least 1996 through at least 2011 at this well (see data in Appendix B3) probably indicates it has received dilution from the documented water supply lateral leak. The same occurrence of chloroform occurred at well W22 when its PCP declined when

the nearby water supply lateral leak occurred in 2010 and 2011. In November 2012 the City Water Utility found and repaired a water lateral leak, characterized as about 10 gpm, at the intersection of Rosecrans Street and First Avenue. This leak could have recharged groundwater at this location or flowed along the water line trench, to recharge at some location along the trench. This water line and trench extends east along Rosecrans Street, between 3M and Wauleco.

- **Naphthalene** – The areal extent of naphthalene concentrations is similar to 2018, however, the 100 ug/L (the NR 140 ES) and 40 ug/L contours are much smaller in 2019 (see Drawing 8).

- **TPH** – The areal extent of the total petroleum hydrocarbon (TPH) concentrations in 2019 (see Drawing 9) has a similar distribution as in 2018, however, the concentrations are lower in 2019. For example, well W40 in 2018 has decreased to from 300 mg/L in 2018 to 31 mg/L in 2019 (W40R).

- **1,2,4-Trimethylbenzene** – Like Naphthalene and TPH, the areal extent for 1,2,4-Trimethylbenzene has a similar distribution and lower concentrations, but this constituent has a smaller areal extent than in 2018.

- **Total Xylenes** –The extent of total xylenes across the site are now less than the NR 140 PAL (400 μg/L) across the entire area, with the decline in concentration at well W40 (at 880 μg/L in 2018) and W40R (at 301 ug/L in 2019) (see Drawing 11).

SUMMARY AND CONCLUSIONS

Groundwater sampling around the Wauleco site has generally documented decreased contaminant concentrations in 2019 as compared to 2018 (refer to graphs in Appendix C illustrating trends in PCP concentrations). In addition to the effectiveness of the groundwater pump and treat system, and the current biodegradation rate of PCP and mineral spirits constituents in groundwater is continuing to maintain a stable to declining concentration within the groundwater. This stable to declining trend is being maintained with the lower groundwater extraction rate since 2011.

The declining trend in PCP concentrations are illustrated by the declining trend in most of the time-concentration trend graphs, but is shown collectively on the PCP isoconcentration map (Figure 7) as the area encompassed by the 3,000 ug/L contour line shrinking through time when compared to maps in prior Annual Groundwater Monitoring Reports. In particular, this continued biodegradation has reduced the source area of the northern lobe of PCP such that the wells within the source area (i.e., DFOMW11, DFOMW12, and W2) are declining.

Detailed summary and conclusions are organized by product, groundwater containment, and groundwater quality.

Product

Apparent product observed during 2019 on the site is limited to intermittent presence of LNAPL in four monitoring wells and two extraction wells. The apparent product is thin, and isolated to very small areas.

Groundwater Containment

Containment of groundwater on the Wauleco site in 2019 is evident as shown in Drawings 3 and 4 for pumping at approximately 22 gpm, extending at least 100 ft. beyond the downgradient property line.

Groundwater Quality

The distance concentration graphs for the north and south profiles (see Figures E-2 and E-5) continue to show good PCP biodegradation downgradient of the residual phase LNAPL footprint, achieving or nearly achieving non-detectable concentrations downgradient.

Wells W26R and W29R continue to fluctuate, probably due to variations in groundwater flow directions resulting in variable distances to the residual phase LNAPL. A north to south component of groundwater flow shortens the distance (and time) for biodegradation so that PCP concentrations increase. However, if a west to east flow direction predominates there would be a longer distance with more time for biodegradation to occur so that PCP concentrations would decrease.

The areal distribution of naphthalene, TPH, and 1,2,4 trimethylbenzene have a similar areal extent, however, the concentrations within the plumes are lower, compared to 2018. Total xylenes have also decreased, so that the concentrations are less than the NR140 PAL.

RECOMMENDATIONS

TRC recommends the following:

- Continue operation of the groundwater remediation system without product recovery.
- Continue to implement the current pumping approach.
- Continue to perform semi-annual groundwater monitoring during 2020.
- Continue the quarterly water level monitoring used to assess the effect of the reduction in pumping rate in 2011, with preparation of a water table map for the January and July monitoring events.
- Continue the use of absorbent socks in groundwater monitoring wells W04A, W07, W35, and W40R (if needed), and extraction wells, if present.

TABLE 1

2019 GROUNDWATER MONITORING PROGRAM
WAULECO, INC.
WAUSAU, WISCONSIN

Well Location	Semi-Annual - January	Annual - July
W1A		S
W2		S
W3A	W + M	S + M
W3B		S
W6R	W + M	S + M
W8	W + M	S + M
W9		S
W10A	M	S + M
W10B		S
W11	M	S + M
W12	M	S + M
W13	W + M	S + M
W16	M	S + M
W17	W + M	S + M
W18	M	S + M
W19	W + M	Abandoned
W21		S
W22	W + M	S + M
W25	W	S
W26/W26R	W + M	S + M
W27	M	S + M
W28	M	S + M
W29/W29R	M	S + M
W32		S
W33	W + M	S + M
W36		S
W39	W	Abandoned
W40/W40R	W + M	S + M
W41	W + M	S + M
DFOMW5	P	P + V + T
DFOMW11	P	P
DFOMW12	P	P
FP2	M	M
PW17	M	M
W71	P	P + V + T
W72	P	P + V + T
W73	P + M	P + V + T + M
W74	P	P + V + T

Notes:

W = Designates well locations to be sampled during the winter sampling round and analyzed for:
phenolic compounds, nitrate, 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, naphthalene, xylenes, 1,2,4-trimethylbenzene,
nitrate, dissolved mercury, field pH, and field specific conductance.

M = Designates well locations to be sampled for MNA parameters:
dissolved manganese and iron, sulfate, total organic carbon, and total petroleum hydrocarbons.
field pH, and field specific conductance in the summer and winter sampling rounds.

P = Designates well locations to be sampled for pentachlorophenol.

V = VOC's

T = TPH

Updated : T. Dushek, 10/29/19
Checked : A. Voit, 11/27/19

TABLE 2

SUMMARY OF 2019 GROUNDWATER SAMPLING LOCATIONS
WAULECO, INC.
WAUSAU, WISCONSIN

Well Location	January 2019	July 2019
W1A		X
W2		X
W3A	X	X
W3B		X
W6R	X	X
W8	X	X
W9		X
W10A	X	X
W10B		X
W11	X	X
W12	X	X
W13	X	X
W16	X	X
W17	X	X
W18	X	X
W19	X	Abandoned
W21		X
W22	X	X
W25	X	X
W26/W26R	X	X
W27	X	X
W28	X	X
W29/W29R	X	X
W32		X
W33	X	X
W36		X
W39	X	Abandoned
W40/W40R	X	X
W41	X	X
DFOMW5	X	X
DFOMW11	X	X
DFOMW12	X	X
FP2	X	X
PW17	X	X
W71	X	X
W72	X	X
W73	X	X
W74	X	X

Notes:
January 2019 (Winter Sampling Round) samples collected on January 21, 22, 23, 24 and 28, 2019.
July 2019 (Summer Sampling Round) samples collected on July 8, 9, 11, 15, 16, and 18, 2019.
X - indicates groundwater sample obtained and sent to laboratory.
Product - indicates a sample was not collected due to the presence of product in the well.

Updated : T. Dushek, 10/29/19
Checked : A. Voit, 11/27/19

TABLE 3

2019 Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well No.	Current	January 4, 2019		April 24, 2019		July 3, 2019		October 18, 2019	
	Top of Casing Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)
PW01	1192.22 [3]	0.00	1163.88	0.00	1164.93	0.00	1165.95	0.00	1165.56
PW02	1197.16	-----	Abandoned	-----	Abandoned	-----	Abandoned	-----	Abandoned
PW03	1190.49	0.00	1163.69	0.00	1165.15	0.00	1165.61	0.00	1165.17
PW3S	1189.55	0.00	1162.90	0.00	1164.76	0.00	1165.47	0.00	1164.69
PW04	1190.52	0.00	1162.75	0.00	1164.72	0.00	1165.27	0.00	1164.47
PW05	1188.48	0.00	1162.82	0.00	1164.77	0.00	1165.23	0.00	1164.51
PW06	1191.97	0.00	1163.21	0.00	1164.91	0.00	1165.27	0.00	1164.69
PW07	1189.82	0.00	1162.96	0.00	1164.78	0.00	1165.18	0.00	1164.51
PW08	1191.84	0.00	1164.09	0.00	1165.25	0.00	1165.98	0.00	1165.65
PW9I	1188.58	-----	-----	-----	-----	-----	-----	-----	-----
PW9O	1189.98	0.00	1162.78	0.00	1164.76	0.00	1165.24	0.00	1164.55
PW10	1191.62	0.00	1162.99	0.00	1164.72	0.00	1165.58	0.00	1164.87
PW11	1188.69	0.00	1161.42	0.00	1164.37	0.00	1164.62	0.00	1163.49
PW12	1192.12	0.00	1164.07	0.00	1165.03	0.00	1165.82	0.00	1165.56
PW13	1192.2	0.00	1162.82	0.00	1164.62	0.00	1165.36	0.00	1164.65
PW14	1188.83	0.00	1162.07	0.00	1165.41	0.00	1165.50	0.00	1164.01
PW15	1189.34	0.00	1162.16	0.00	1165.40	0.00	1165.57	0.00	1164.20
PW16	1191.91	0.03	1162.22	0.00	1164.06	0.02	1164.73	0.00	1163.80
PW17	1191.9	0.00	1158.83	0.00	1163.45	0.00	1164.64	0.00	1163.97
PW18	1190.19	0.00	1162.78	0.00	1164.89	0.00	1165.41	0.00	1164.59
PW19	1190.66	0.02	1162.13	0.00	1163.91	0.00	1164.85	0.00	1163.66
PW20	1191.34	0.00	1161.60	0.00	1164.12	0.00	1164.97	0.00	1163.63
PW21	1190.33	0.00	1162.33	0.00	1164.06	0.00	1164.66	0.00	1163.92
PW22	1192.32	0.00	1162.85	0.00	1164.75	0.00	1165.24	0.00	1164.52
PW23	1189.49	0.00	1162.76	0.00	1164.74	0.00	1165.15	0.00	1164.41
PW24	1188.28	0.00	1161.30	0.00	1164.17	0.00	1163.92	0.00	1163.05
PW25	1189.51	0.00	1158.98	0.00	1163.55	0.00	1164.15	0.00	1161.83
PW26	1188.79	0.00	1160.50	0.00	1164.16	0.00	1163.75	0.00	1162.61
PW27	1188.47	0.00	1159.79	0.00	1164.06	0.00	1164.43	0.00	1160.82
PW28	1193.6	0.00	1163.83	0.00	1165.05	0.00	1165.51	0.00	1165.22
PW29	1193.65	0.00	1163.96	0.00	1165.03	0.00	1165.63	0.00	1165.37
P01	1191.48	0.00	1162.74	0.00	1164.74	0.00	1165.29	0.00	1164.46
OW01	1194.62 [3]	0.00	1165.20	0.00	1166.15	0.00	1167.08	0.00	1166.75
W01A	1194.08	0.00	1164.36	0.00	1165.10	0.00	1166.26	0.00	1165.96
W01B	1194.92	0.00	1164.38	0.00	1165.15	0.00	1166.28	0.00	1165.99
W02	1193.71	0.00	1163.54	0.00	1164.81	0.00	1165.23	0.00	1164.94
W03A	1187.76	0.00	1161.83	0.00	1164.99	0.00	1164.81	0.00	1163.59
W03B	1187.77	0.00	1162.23	0.00	1164.06	0.00	1163.56	0.00	1163.18

TABLE 3

2019 Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well No.	Current	January 4, 2019		April 24, 2019		July 3, 2019		October 18, 2019	
	Top of Casing Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)
W04A	1192.32	0.03	1163.20	0.00	1165.00	0.03	1165.32	0.00	1164.77
W04B	1192.26	0.00	1163.20	0.00	1164.90	0.00	1165.27	0.00	1164.72
W05	1190.63	0.00	1162.80	0.00	1164.65	0.00	1165.30	0.00	1164.53
W06R	1194.06	0.00	1164.26	0.00	1165.03	0.00	1166.14	0.00	1165.87
W07	1192.37 [3]	0.13	1163.95	0.23	1164.94	0.00	1165.97	0.00	1165.62
W08	1206.73	0.00	1173.71	0.00	1174.16	0.00	1175.62	0.00	1175.15
W09	1172.80	0.00	1162.73	0.00	1164.35	0.00	1163.48	0.00	1163.50
W10A	1182.59	0.00	1161.34	0.00	1163.52	0.00	1161.68	0.00	1161.76
W10B	1182.44	0.00	1161.37	0.00	1163.24	0.00	1161.78	0.00	1161.80
W11	1175.25	0.00	1161.23	0.00	1162.66	0.00	1161.65	0.00	1161.59
W12	1173.95	0.00	1160.84	0.00	1161.92	0.00	1161.16	0.00	1161.10
W13	1188.73	0.00	1161.98	0.00	1164.62	0.00	1163.17	0.00	1162.62
W14	1172.41	0.00	1161.11	0.00	1162.10	0.00	1161.46	0.00	1161.33
W16	1180.60	0.00	1162.52	0.00	1164.70	0.00	1163.71	0.00	1163.36
W17	1187.4	0.00	1162.00	0.00	1165.29	0.00	1165.20	0.00	1163.77
W18	1172.92	0.00	1161.31	0.00	1163.51	0.00	1161.66	0.00	1161.77
W19	1194.26	0.00	1163.67	-----	Abandoned	-----	Abandoned	-----	Abandoned
W21	1170.14	0.00	1161.10	0.00	1162.36	0.00	1161.29	0.00	1161.31
W22	1186.01	0.00	1161.93	0.00	1164.59	0.00	1165.08	0.00	1163.46
W23	1171.55	0.00	1161.18	0.00	1162.27	0.00	1161.58	0.00	1161.42
W24A	1171.77	0.00	1161.16	0.00	1162.19	0.00	1161.51	0.00	1161.40
W25	1194.48	0.00	1164.34	0.00	1165.19	0.00	1166.29	0.00	1165.94
W26/W26R	1176.90	0.00	1161.27	-----	Abandoned	0.00	1161.68	0.00	1161.69
W27	1180.19	0.00	1161.97	0.00	1164.10	0.00	1163.17	0.00	1162.79
W28	1174.36	0.00	1161.30	0.00	1163.49	0.00	1161.55	0.00	1161.76
W29/W29R	1172.60	0.00	1161.16	-----	Abandoned	0.00	1161.37	0.00	1161.49
W30	1189.97	0.00	1162.74	0.00	1164.68	0.00	1165.27	0.00	1164.47
W31	1169.67	0.00	1161.12	0.00	1162.62	0.00	1161.31	0.00	1161.37
W32	1169.43	0.00	1161.13	0.00	1162.65	0.00	1161.21	0.00	1161.38
W33	1188.51	0.00	1163.70	0.00	1164.78	0.00	1165.16	0.00	1164.54
W34	1191.16	0.00	1162.93	0.00	1164.80	0.00	1165.17	0.00	1164.51
W35	1191.93	0.00	1162.95	0.00	1164.72	0.02	1165.40	0.00	1164.73
W36	1192.34	0.00	1163.53	0.00	1164.78	0.00	1165.61	0.00	1165.10
W39	1187.78	0.00	1162.26	-----	Abandoned	----	Abandoned	----	Abandoned
W40/W40R	1180.69	0.03	1161.75	-----	Abandoned	0.00	1163.71	0.00	1163.11
W41	1185.04	0.00	1162.85	0.00	1164.86	0.00	1164.64	0.00	1164.17
W42	1194.61	0.00	1163.60	0.00	1165.11	0.00	1165.63	0.00	1165.22
W44	1190.82	0.00	1162.75	0.00	1164.71	0.00	1165.21	0.00	1164.43

TABLE 3

2019 Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well No.	Current	January 4, 2019		April 24, 2019		July 3, 2019		October 18, 2019	
	Top of Casing Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)
W45	1190.69	0.00	1162.91	0.00	1164.82	0.00	1165.27	0.00	1164.58
W46	1191.49	0.00	1162.58	0.00	1164.53	0.00	1165.15	0.00	1164.35
W47	1189.37	0.00	1161.44	0.00	1164.40	0.00	1164.69	0.00	1163.52
W48	1189.7	0.00	1161.72	0.00	1164.93	0.00	1165.07	0.00	1163.75
W49	1189.2	0.00	1162.17	0.00	1165.51	0.00	1165.64	0.00	1164.20
W66	1192.41	0.00	1164.12	0.00	1165.06	0.00	1165.88	0.00	1165.61
W67	1191.85	0.00	1164.09	0.00	1165.04	0.00	1165.82	0.00	1165.57
W68A	1190.94	0.00	1164.12	0.00	1165.08	0.00	1165.89	0.00	1165.64
W68B	1191.42	0.00	1164.03	0.00	1165.00	0.00	1165.72	0.00	1165.48
W69	1192.23	0.00	1163.12	0.00	1164.76	0.00	1165.57	0.00	1165.14
W70B	1200.29		Abandoned	-----	Abandoned	-----	Abandoned	-----	Abandoned
River	1164.19	-----	-----	-----	-----	-----	-----	-----	-----
IW01	1190.8	0.00	1162.78	0.00	1164.64	0.00	1165.30	0.00	1164.55
IW01A	1190.74	0.00	1162.78	0.00	1164.68	0.00	1165.30	0.00	1164.50
FP01	1188.04	0.00	1161.06	0.00	1164.25	0.00	1164.21	0.00	1162.96
FP02	1187.6	0.00	1161.08	0.00	1164.15	0.00	1164.19	0.00	1163.10
FP03	1186.66	0.00	1159.58	0.00	1163.25	0.00	1164.12	0.00	1161.81
FP04	1188.29	0.00	1161.06	0.00	1164.06	0.00	1164.47	0.00	1163.21
3M Basin		0.00	Ice/Water in both Basins	0.00	Water in both Basins	0.00	Water in both Basins	0.00	Water in both Basins
DFOWM 5	1188.3	0.00	1163.62	-----	-----	0.00	1164.97	-----	-----
DFOWM 9	1187.56		Abandoned	-----	Abandoned	-----	Abandoned	-----	Abandoned
DFOWM 10A	1187.7		Abandoned	-----	Abandoned	-----	Abandoned	-----	Abandoned
DFOWM 11	1188.8	0.00	1162.17	-----	-----	0.00	1162.86	-----	-----
DFOWM 12	1187.78	0.00	1163.35	-----	-----	0.00	1164.84	-----	-----
W71	1191.95	0.00	1167.52	0.00	1166.05	0.00	1168.49	0.00	1167.06
W72	1190.97	0.00	1164.72	0.00	1165.40	0.00	1166.84	0.00	1166.37
W73	1192.20	0.00	1163.52	0.00	1165.05	0.00	1165.37	0.00	1164.88
W74	1183.13	0.00	1163.06	0.00	1165.03	0.00	1164.63	0.00	1164.08

Notes:
1. ft msl = feet mean sea level
2. PW9O denotes the outer well and PW9I denotes the inner well
3. Re-surveyed after Soil Mound removal in 2015

Updated : T. Dushek, 10/29/19
Checked: B. Iverson, 4/6/20

TABLE 4a

2019 Winter Groundwater Monitoring Analytical Results
January 21-24, 28, 2019
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES	PAL	W03A	W06R	W08	W10A	W10A Duplicate	W11	W12	W13	W16	W17	W18	W19	W22	W22 Duplicate	W25	W26	W27
Indicators																			
Total sulfate (mg/L)	250	125	4.3	30	15	8.4	8.7	11	24	9.2	20	3.3	18	20	26	22		33	31
Nitrate nitrogen (mg/L)	10	2	<0.12	0.68	**3.5**					0.66		<0.12		1.8	0.6	0.47	**5.4**	**3.5**	
Total organic carbon (mg/L)	None	None	4.6	6	1.3	6.9	7	1.4	1.1	1.1	1.6	3.4	1	2.3	9.1	8.3		3.5	14
Dissolved iron	300	150	**1460**	<59	<59	**1,460**	**1,300**	<59	<59	<59	<59	**895**	<59 **M,Y**	<59	<59	<59		<59	**4,360**
Dissolved manganese	50	25	**800**	**167**	<2.2	**3,240**	**3,240**	**415**	<2.2	10.4	<2.2	**391**	<2.2	**80.1**	**1,980**	**1,990**		21	**16,000**
TPH as mineral spirits (ug/L)	None	None	5000	570	<32	1100	910	<32	<31	<32	<31	580	<32	<34	1500	1500		<33	3000
Phenols																			
2,3,4,6-Tetrachlorophenol	None	None	15	93	<3.0					<3.0		<3.0		11	160	200	<3.0	<3.0	
2,4,5-Trichlorophenol	None	None	<3.0	<12	<3.0					<3.0		<3.0		<3.0	<22	<22	<3.0	<3.0	
2,4,6-Trichlorophenol	None	None	<3.0	<11	<3.0					<3.0		<3.0		<3.0	<20	<20	<3.0	<3.0	
2,4-Dichlorophenol	None	None	<3.0	<13	<3.0					<3.0		<3.0		<3.0	<25	<25	<3.0	<3.0	
2,4-Dimethylphenol	None	None	<3.0	<10	<3.0					<3.0		<3.0		<3.0	<19	<19	<3.0	<3.0	
2,4-Dinitrophenol	None	None	<3.0	<15	<3.0					<3.0		<3.0		<3.0	<28	<28	<3.0	<3.0	
2,6-Dichlorophenol	None	None	<3.0	<11	<3.0					<3.0		<3.0		<3.0	<20	<20	<3.0	<3.0	
2-Chlorophenol	None	None	<3.0	<12	<3.0					<3.0		<3.0		<3.0	<23	<23	<3.0	<3.0	
2-Methylphenol	None	None	<3.0	<10	<3.0					<3.0		<3.0		<3.0	<19	<19	<3.0	<3.0	
2-Nitrophenol	None	None	<3.0	<11	<3.0					<3.0		<3.0		<3.0	<20	<20	<3.0	<3.0	
3- and 4-Methylphenol	None	None	<3.0	<12	<3.0					<3.0		<3.0		<3.0	<22	<22	<3.0	<3.0	
4,6-Dinitro-2-methylphenol	None	None	<3.0	<15	<3.0					<3.0		<3.0		<3.0	<29	<29	<3.0	<3.0	
4-Chloro-3-methylphenol	None	None	<3.0	<11	<3.0					<3.0		<3.0		<3.0	<21	<21	<3.0	<3.0	
4-Nitrophenol	None	None	<3.0	<12	<3.0					<3.0		<3.0		<3.0	<23	<23	<3.0	<3.0	
Pentachlorophenol	1	0.1	**290**	**1600**	<3.0					<3.0		**67**		**89**	**3,000**	**3,100**	**3.1**	**6.8**	
Phenol	6000	1200	<3.0	<13	<3.0					<3.0		<3.0		<3.0	<25	<25	<3.0	<3.0	
Total Phenols			**305**	**1,693**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**0.0**	**100**	**3160**	**3300**	**3.1**	**6.8**	**-**

NOTES:
Units are in µg/L unless otherwise noted.
Bold values indicate value above the PAL.
Bold and boxed values indicate value above the ES.
J = estimated value.
Q = laboratory control sample outside acceptance limits.
M = matrix spike and/or spike duplicate recovery outside acceptance limits.
V = raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
Y = replicate/duplicate precision outside acceptance limits.

By: T. Dushek 4/9/19
Checked by: A. Voit 11/27/19

TABLE 4a

2019 Winter Groundwater Monitoring Analytical Results
January 21-24, 28, 2019
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES	PAL	W28	W29	W33	W39	W39 Duplicate	W40	W41	DFOMW5	DFOMW11	DFOMW12	DFOMW12 Duplicate	FP2	PW17	W71	W72	W73	W74	Equipment Blank
Indicators																				
Total sulfate (mg/L)	250	125	13	17	15			7.6	4.1					3	9.3			20		<0.80
Nitrate nitrogen (mg/L)	10	2			<0.12	<0.12	<0.12	<0.12	<0.12											<0.12
Total organic carbon (mg/L)	None	None	1	2.8	7.9			24	48					7.7	7.3			2.8		<0.40
Dissolved iron (mg/L)	300	150	70.5	<59	**1,130**			**5050**	**7940**					**15,600**	**2910**			<59		<59
Dissolved manganese (mg/L)	50	25	**31.1**	**166**	**2,170**			**12800**	**17100**					**7,210**	**2,810**			**51.4**		<2.2
TPH as mineral spirits (ug/L)	None	None	<32	42	5700			140000	2400					2600	2200			<32		<32
Phenols																				
2,3,4,6-Tetrachlorophenol	None	None			1100	30	33	670	66									<3.0		<3.0
2,4,5-Trichlorophenol	None	None			<44	<4.4	<4.4	<45	<23									<3.0		<3.0
2,4,6-Trichlorophenol	None	None			<40	<4.0	<4.0	<41	<21									<3.0		<3.0
2,4-Dichlorophenol	None	None			<50	<5.0	<5.0	<51	<25									<3.0		<3.0
2,4-Dimethylphenol	None	None			<38	<3.8	<3.8	<39	<20									<3.0		<3.0
2,4-Dinitrophenol	None	None			<56	<5.6	<5.6	<57	<28									<3.0		<3.0
2,6-Dichlorophenol	None	None			<40	<4.0	<4.0	<41	<21									<3.0		<3.0
2-Chlorophenol	None	None			<46	<4.6	<4.6	<47	<24									<3.0		<3.0
2-Methylphenol	None	None			<38	<3.8	<3.8	<39	<20									<3.0		<3.0
2-Nitrophenol	None	None			<40	<4.0	<4.0	<41	<21									<3.0		<3.0
3- and 4-Methylphenol	None	None			<44	<4.4	<4.4	<45	<23									<3.0		<3.0
4,6-Dinitro-2-methylphenol	None	None			<58	<5.8	<5.8	<59	<29									<3.0		<3.0
4-Chloro-3-methylphenol	None	None			<42	<4.2	<4.2	<43	<22									<3.0		<3.0
4-Nitrophenol	None	None			<46	<4.6	<4.6	<47	<24									<3.0		<3.0
Pentachlorophenol	1	0.1			**8,000**	**720**	**720**	**7,400**	**2,600**	<3.0	**890**	**3,300**	**3,500**			<3.0	<3.0	<3.0	<3.0	<3.0
Phenol	6000	1200			<50	<5.0	<5.0	<51	<25									<3.0		<3.0
Total Phenols			**-**	**-**	**9,100**	**750**	**753**	**8,070**	**2,666**	**0**	**890**	**3,300**	**3,500**	**-**	**-**	**0**	**0**	**0**	**0**	**0**

NOTES:
Units are in µg/L unless otherwise noted.
Bold values indicate value above the PAL.
Bold and boxed values indicate value above the ES.
J = estimated value.
Q = laboratory control sample outside acceptance limits.
M = matrix spike and/or spike duplicate recovery outside acceptance limits.
V = raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
Y = replicate/duplicate precision outside acceptance limits.

By: T. Dushek 4/9/19
Checked by: A. Voit 11/27/19

TABLE 4b

2019 Summer Groundwater Monitoring Analytical Results
July 8, 9, 11, 15, 16, 18, 2019
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES	PAL	W01A	W02	W02 Duplicate	W03A	W03B	W06R	W08	W09	W10A	W10A Duplicate	W10B	W11	W12	W13	W16	W17	W18	W21	W22
Indicators																					
Total sulfate (mg/L)	250	125				1.1		50	16		7.2	7.3		13	26	42	18	10	6.8		32
Nitrate nitrogen (mg/L)	10	2	**3.4**	1.8	1.9	<0.12	**3.1**	**3.2**	**3**	<0.12	<0.12	<0.12	0.51	0.35	**5.1**	1.9	**3.7**	1.9	0.47	**2.3**	**6**
Total organic carbon (mg/L)	None	None				4.6 **Y**		7.4	1.3		7.0	7.1		2.1	2.00	2.3	2.8	1.9	<0.40		4.6 **Y**
Dissolved iron	300	150				**7100**		<59	<59		**1370**	**1390**		<59	<59	**180**	**607**	<59	<59		<59
Dissolved manganese	50	25				**13200**		**652**	<2.2		**3000**	**3870**		**1520**	<2.2	8.1	**123**	**241**	5		6.7
Dissolved mercury	2	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TPH as mineral spirits	None	None	120	500	520	9300	<33	370	<32	<32	870	820	<33	<34	<32	<34	<32	390	<32	<34	<34
Phenols																					
2,3,4,6-Tetrachlorophenol	None	None	0.94	13	15	38	0.24	150	<3.0	<3.0	26	52	1.5	9	<3.0	<3.0	<3.0	3.9	<3.0	0.58	1
2,4,5-Trichlorophenol	None	None	<3.0	<4.6	<4.7	<3.0	<3.0	<11	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2,4,6-Trichlorophenol	None	None	<3.0	<4.2	<4.3	<3.0	<3.0	<10	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2,4-Dichlorophenol	None	None	<3.0	<5.3	<5.3	<3.0	<3.0	<13	<3.0	<3.0	<13	<13	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2,4-Dimethylphenol	None	None	<3.0	<4	<4.1	<3.0	<3.0	<9.6	<3.0	<3.0	<10	<10	<3.0	<3.0	<3.0	<3.0 **Q**	<3.0	<3.0	<3.0	<3.0	<3.0 **Q**
2,4-Dinitrophenol	None	None	<3.0	<5.9	<5.9	<3.0	<3.0	<14	<3.0	<3.0	<15	<15	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2,6-Dichlorophenol	None	None	<3.0	<4.2	<4.3	<3.0	<3.0	<10	<3.0	<3.0	<11	<11	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2-Chlorophenol	None	None	<3.0	<4.8	<4.9	<3.0	<3.0	<12	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2-Methylphenol	None	None	<3.0	<4	<4.1	<3.0	<3.0	<9.6	<3.0	<3.0	<10	<10	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2-Nitrophenol	None	None	<3.0	<4.2	<4.3	<3.0	<3.0	<10	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
3- and 4-Methylphenol	None	None	<3.0	<4.6	<4.7	<3.0	<3.0	<11	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
4,6-Dinitro-2-methylphenol	None	None	<3.0	<6.1	<6.1	<3.1	<3.0	<14	<3.0	<3.0	<15	<15	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
4-Chloro-3-methylphenol	None	None	<3.0	<4.4	<4.5	<3.0	<3.0	<11	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
4-Nitrophenol	None	None	<3.0	<4.8	<4.9	<3.0	<3.0	<12	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Pentachlorophenol	1	0.1	**11**	**280**	**260**	**610**	**20**	**2400**	<3.0	**1.8**	**610**	**740**	**27**	**170**	<3.0	<3.0	<3.0	**77**	**2**	**5**	**13**
Phenol	6000	1200	<3.0	<5.3	<5.3	<3.0	<3.0	<13	<3.0	<3.0	<13	<13	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total Phenols			**11.94**	**293**	**275**	**648**	**20.24**	**2550**	**0**	**1.8**	**636**	**792**	**28.5**	**179**	**0**	**0**	**0**	**80.9**	**2**	**5.58**	**14**
Volatile Organics																					
1,2,4-Trimethylbenzene	480 A	96 A	4.1	**370**	**380**	**730**	<0.40	**120**	<0.40	<0.40	**580**	**610**	5.9	<0.40	<0.40	<0.40	<0.40	22	<0.40	<0.40	<0.40
Naphthalene	100	10	1.1	**39**	**40**	**46**	<0.90	**17**	<0.90	1.2	**26**	**26**	0.94	<0.90	<0.90	<0.90	<0.90	2.7	<0.90	<0.90	<0.90
m & p-Xylene	10000**C**	1000**C**	<0.80	<16	<16	<16	<0.80	12	<0.80	<0.80	<16	<16	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
o-Xylene	10000**C**	1000**C**	<0.40	39	43	96	<0.40	54	<0.40	<0.40	76	79	<0.40	<0.40	<0.40	<0.40	<0.40	4.2	<0.40	<0.40	<0.40
Total VOCs			**5.2**	**448**	**463**	**872**	**0**	**203**	**0**	**1.2**	**682**	**715**	**6.84**	**0**	**0**	**0**	**0**	**28.9**	**0**	**0**	**0**

TABLE 4b

2019 Summer Groundwater Monitoring Analytical Results
July 8, 9, 11, 15, 16, 18, 2019
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES	PAL	W25	W26R	W27	W27 Duplicate	W28	W29R	W32	W33	W36	W40R	W41	FP02	PW17	Field Blank 01	DFOMW5	DFOMW11	DFOMW12	DFOMW12 Duplicate	W71	W72	W73	W74
Indicators																								
Total sulfate (mg/L)	250	125		18	20	21	16	14		7.3		16	7.9	6.2	22	<0.80							19	
Nitrate nitrogen (mg/L)	10	2	**6.2**	0.54	<0.12	<0.12	**2.5**	0.47	<0.12	**2.1**	**5.8**	<0.12	0.36			<0.12							**4.4**	
Total organic carbon (mg/L)	None	None		8.1	44	46	1	11		4.6		8.8	7.7	8.2	11	<0.40							3.9	
Dissolved iron	300	150		**164**	**3490**	**3440**	<59	<59		<59		109	**6070**	**15900**	**4840**	<59							118	
Dissolved manganese	50	25		**4270**	**10300**	**9900**	<2.2	**103**		**36.5**		**6580** **M**	**13700**	**8370**	**3930**	<2.2							**70.2**	
Dissolved mercury	2	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020			<0.020							<0.020	
TPH as mineral spirits	None	None	<32	760	3200	3000	<34	<34	<32	<34	<33	31,000	680	1,200	260	<33	<34				<33	<34	<34	<33
Phenols																								
2,3,4,6-Tetrachlorophenol	None	None	0.22	120	530	490	<3.0	87	<3.0	30	0.74	120	26			<3.0							<3.0	
2,4,5-Trichlorophenol	None	None	<3.0	<3.0	<47	<46	<3.0	<12	<3.0	<46	<3.0	<23	<23			<3.0							<3.0	
2,4,6-Trichlorophenol	None	None	<3.0	<3.0	<43	<42	<3.0	<11	<3.0	<42	<3.0	<21	<21			<3.0							<3.0	
2,4-Dichlorophenol	None	None	<3.0	<3.0	<53	<53	<3.0	<13	<3.0	<53	<3.0	<26	<26			<3.0							<3.0	
2,4-Dimethylphenol	None	None	<3.0	<3.0	<41 **Q**	<40 **Q**	<3.0	<10 **Q**	<3.0	<40	<3.0	<20 **Q**	<20			<3.0 **Q**							<3.0	
2,4-Dinitrophenol	None	None	<3.0	<3.0	<59	<59	<3.0	<15	<3.0	<59	<3.0	<29	<29			<3.0							<3.0	
2,6-Dichlorophenol	None	None	<3.0	<3.0	<43	<42	<3.0	<11	<3.0	<42	<3.0	<21	<21			<3.0							<3.0	
2-Chlorophenol	None	None	<3.0	<3.0	<49	<48	<3.0	<12	<3.0	<48	<3.0	<24	<24			<3.0							<3.0	
2-Methylphenol	None	None	<3.0	<3.0	<41	<40	<3.0	<10	<3.0	<40	<3.0	<20	<20			<3.0							<3.0	
2-Nitrophenol	None	None	<3.0	<3.0	<43	<42	<3.0	<11	<3.0	<42	<3.0	<21	<21			<3.0							<3.0	
3- and 4-Methylphenol	None	None	<3.0	<3.0	<47	<46	<3.0	<12	<3.0	<46	<3.0	<23	<23			<3.0							<3.0	
4,6-Dinitro-2-methylphenol	None	None	<3.0	<3.0	<61	<61	<3.0	<15	<3.0	<61	<3.0	<30	<30			<3.0							<3.0	
4-Chloro-3-methylphenol	None	None	<3.0	<3.0	<45	<44	<3.0	<11	<3.0	<44	<3.0	<22	<22			<3.0							<3.0	
4-Nitrophenol	None	None	<3.0	<3.0	<49	<48	<3.0	<12	<3.0	<48	<3.0	<24	<24			<3.0							<3.0	
Pentachlorophenol	1	0.1	**3.7**	**1,800**	**4,900**	**4,700**	<3.0	**410**	<3.0	**1,500**	**10**	**2,000**	**670**			<3.0	**2**	**240**	**400**	**390**	**2.1**	<3.0	<3.0	<3.0
Phenol	6000	1200	<3.0	<3.0	<53	<53	<3.0	<13	<3.0	<53	<3.0	<26	<26			<3.0							<3.0	
Total Phenols			**3.92**	**1920**	**5430**	**5190**	**0**	**497**	**0**	**1530**	**10.74**	**2,120**	**696**			**0**	**2**	**240**	**400**	**390**	**2.1**	**0**	**0**	**0**
Volatile Organics																								
1,2,4-Trimethylbenzene	480 A	96 A	<0.40	**180**	**150**	**110**	<0.40	<0.40	<0.40	8.5	<0.40	**1200**	**310**			<0.40	<0.40				<0.40	<0.40	<0.40	<0.40
Naphthalene	100	10	<0.90	4.9	**28**	**26**	<0.90	<0.90	<0.90	1.6	<0.90	**150**	**38**			<0.90	0.97				<0.90	<0.90	<0.90	<0.90
m & p-Xylene	10000**C**	1000**C**	<0.80	7.7	6.3	<4	<0.80	<0.80	<0.80	<0.80	<0.80	31	<8			<0.80	<0.80				<0.80	<0.80	<0.80	<0.80
o-Xylene	10000**C**	1000**C**	<0.40	25	20	13	<0.40	<0.40	<0.40	5.1	<0.40	270	45			<0.40	<0.40				<0.40	<0.40	<0.40	<0.40
Total VOCs			**0**	**217.6**	**204.3**	**149**	**0**	**0**	**0**	**15.2**	**0**	**1651**	**393**			**0**	**0.97**				**0**	**0**	**0**	**0**

NOTES:
Units are in µg/L unless otherwise noted.
Bold values indicate value above the PAL.
Bold and boxed values indicate value above the ES.
A = ES and PAL for Trimethylbenzenes (1,2,4- and 1,3,5 - combined)
B = Analyte detected in the 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).
Q = laboratory control sample outside acceptance limits.
H = analyte hold time exceeded.
M = matrix spike and/or spike duplicate recovery outside acceptance limits.
Y = replicate/duplicate precision outside acceptance limits.

By: T. Dushek 10/29/19
Checked by: A. Voit 11/27/19

TABLE 5

2019 Groundwater Treatment Removal of Pentachlorophenol (PCP)
Wauleco, Inc.
Wausau, Wisconsin

Year	Month	Avg Extracted GPM[(1)]	Total Gallons [(1)]	PCP Conc 1 (ug/L)	PCP Conc 2 (ug/L)	PCP Conc 3 (ug/L)	PCP Conc 4 (ug/L)	PCP Conc 5 (ug/L)	System	
									Influent Avg PCP Conc. (ug/L)	Effluent Avg PCP Conc. (ug/L)
2019	January	23.26	837,328	11,285	10,885	4,204	3,709		7,521	8.31
	February	21.56	869,317	3,035	8,065	4,784	7,580		5,866	1.36
	March	21.23	947,716	6,428	3,284	4,177	5,823		4,928	1.48
	April	21.54	839,606	4,913	3,273	3,549	3,228		3,741	1.00
	May	21.32	308,245	3,696	6,746				5,221	1.00
	June	22.29	962,949	4,067	7,234	8,687	3,522		5,878	1.21
	July	22.13	988,000	7,022	3,834	3,718	3,625		4,550	1.10
	August	21.92	984,436	3,037	3,800	4,922	4,062	5,645	4,293	1.23
	September	23.53	1,016,372	8,466	8,300	8,609	10,358		8,933	1.47
	October	23.49	1,048,547	6,258	5,737	4,069	5,171		5,309	1.13
	November	24.32	1,050,663	8,097	7,349	6,535	5,214		6,799	1.23
	December	23.16	1,033,799	4,301	5,219	3,287	4,253		4,265	1.16
	Total Discharged to POTW		10,886,978 gallons					Annual Average	5,609	1.81

Total for Year 2019 10,886,978 gallons

Pounds of PCP treated =	510 pounds

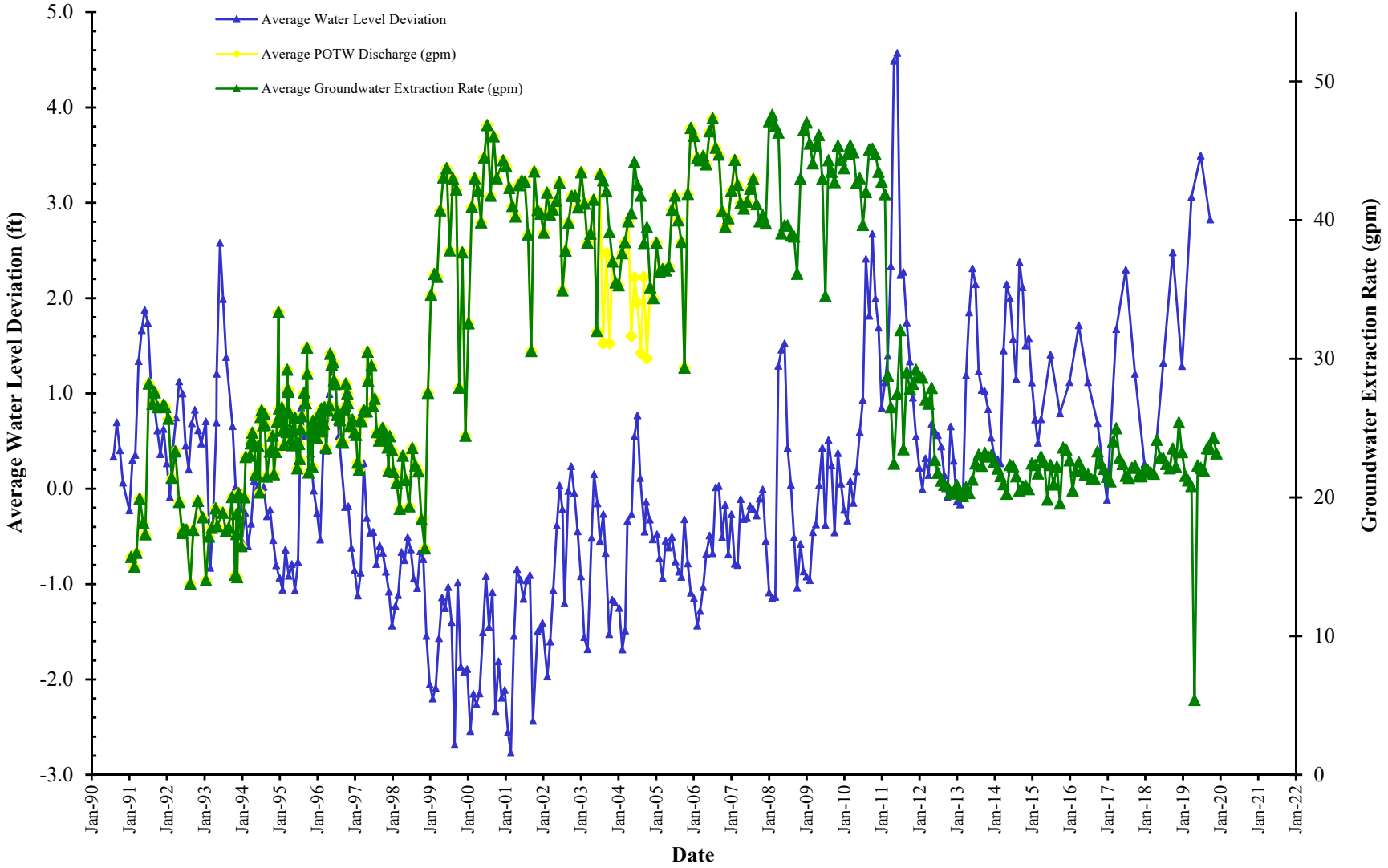
NOTES:
0.264 gallons = 1 liter.
453.6 grams = 1 pound.
PCP = pentachlorophenol.
PCP concentrations from weekly field samples (PCP Conc 1=week 1, etc.) taken of fluidized bed reactor (FBR) influent (Table 1 of Quarterly Reports).
Effluent average PCP concentrations calculated from field sample results taken of system effluent (Table 1 of Quarterly Reports).
gpm = gallons per minute.

FOOTNOTES:
(1) Values from Table 2 of Quarterly Reports.

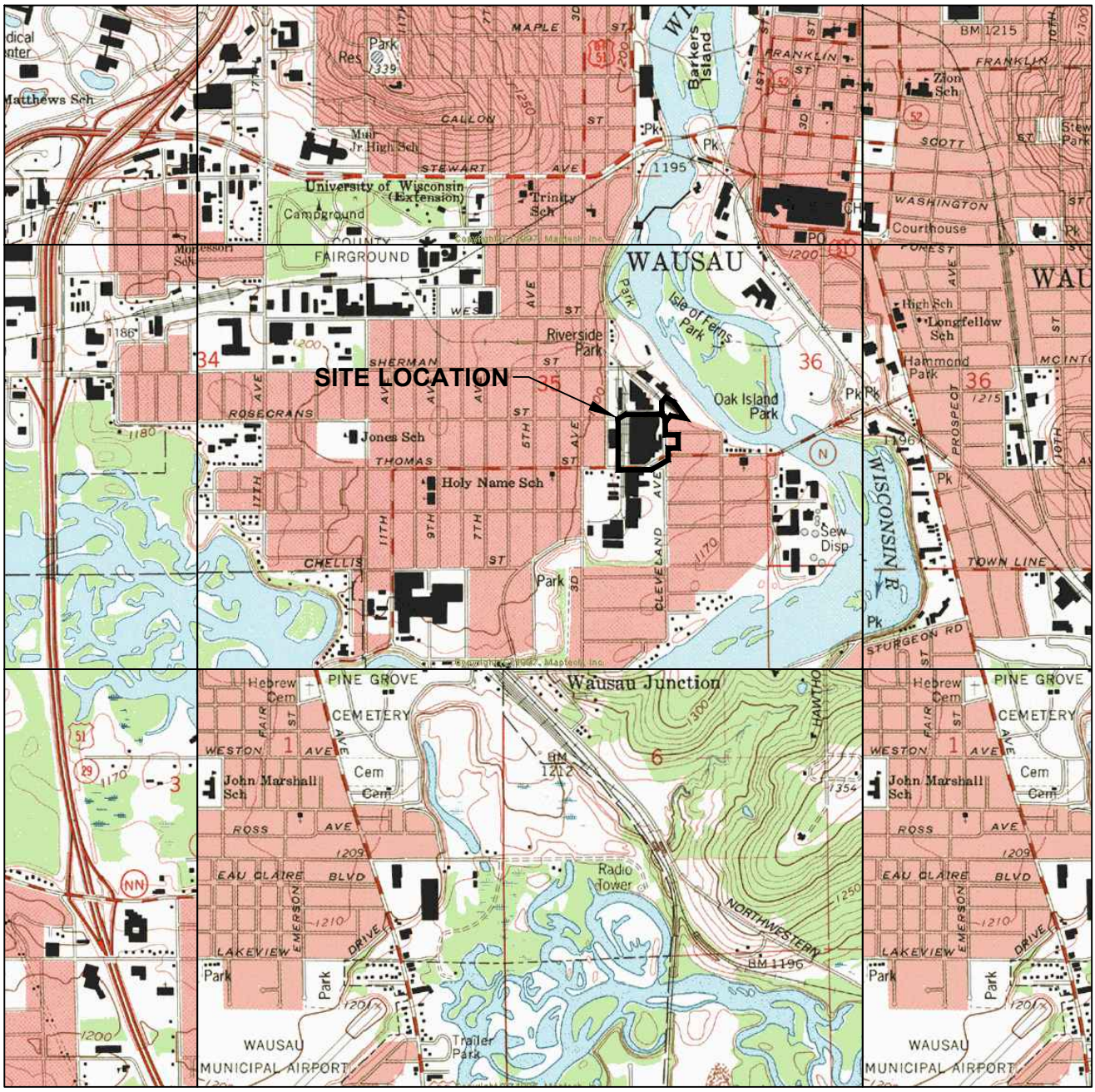
Prepared by: T. Dushek, 1/25/2020
Checked by: K. Quinn 4/6/2020

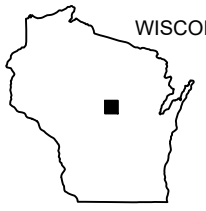
FIGURE 1

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.





QUADRANGLE LOCATION

NOTE

BASE MAP DEVELOPED FROM THE WAUSAU WEST AND WAUSAU EAST, WISCONSIN 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAPS, DATED 1993. PART OF SECTION 35, T29N, R8E

TRC
708 Heartland Trail
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Phone: 608.826.3600

PROJECT:

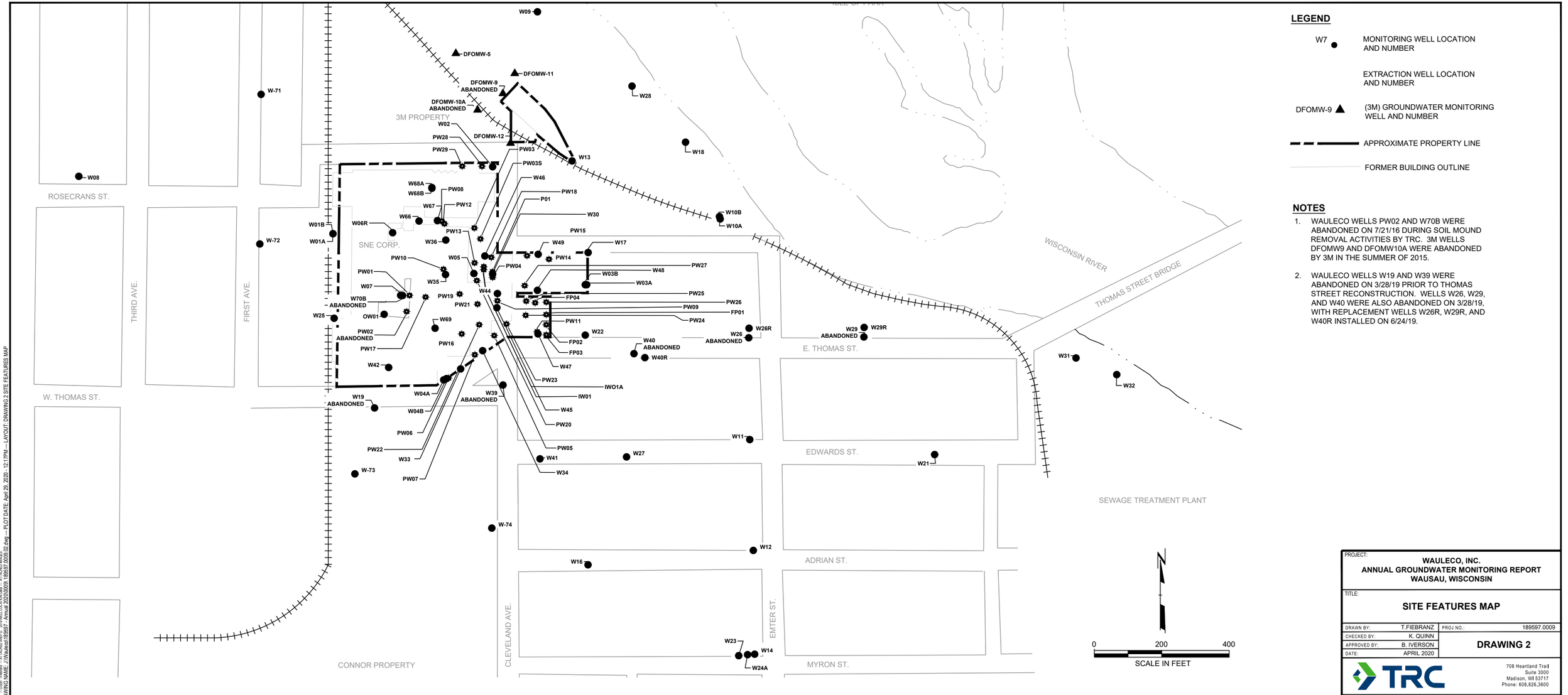
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:

SITE LOCATION MAP

DRAWN BY:	T.FIEBRANZ
CHECKED BY:	K. QUINN
APPROVED BY:	B. IVERSON
DATE:	APRIL 2020
PROJ. NO.:	189597.0009
FILE:	189597.0009.01.dwg

DRAWING 1



LEGEND

- W7 ● — MONITORING WELL LOCATION AND NUMBER
- EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-9 ▲ — (3M) GROUNDWATER MONITORING WELL AND NUMBER
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE

NOTES

1. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
2. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
SITE FEATURES MAP

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 2**
DATE:	APRIL 2020		

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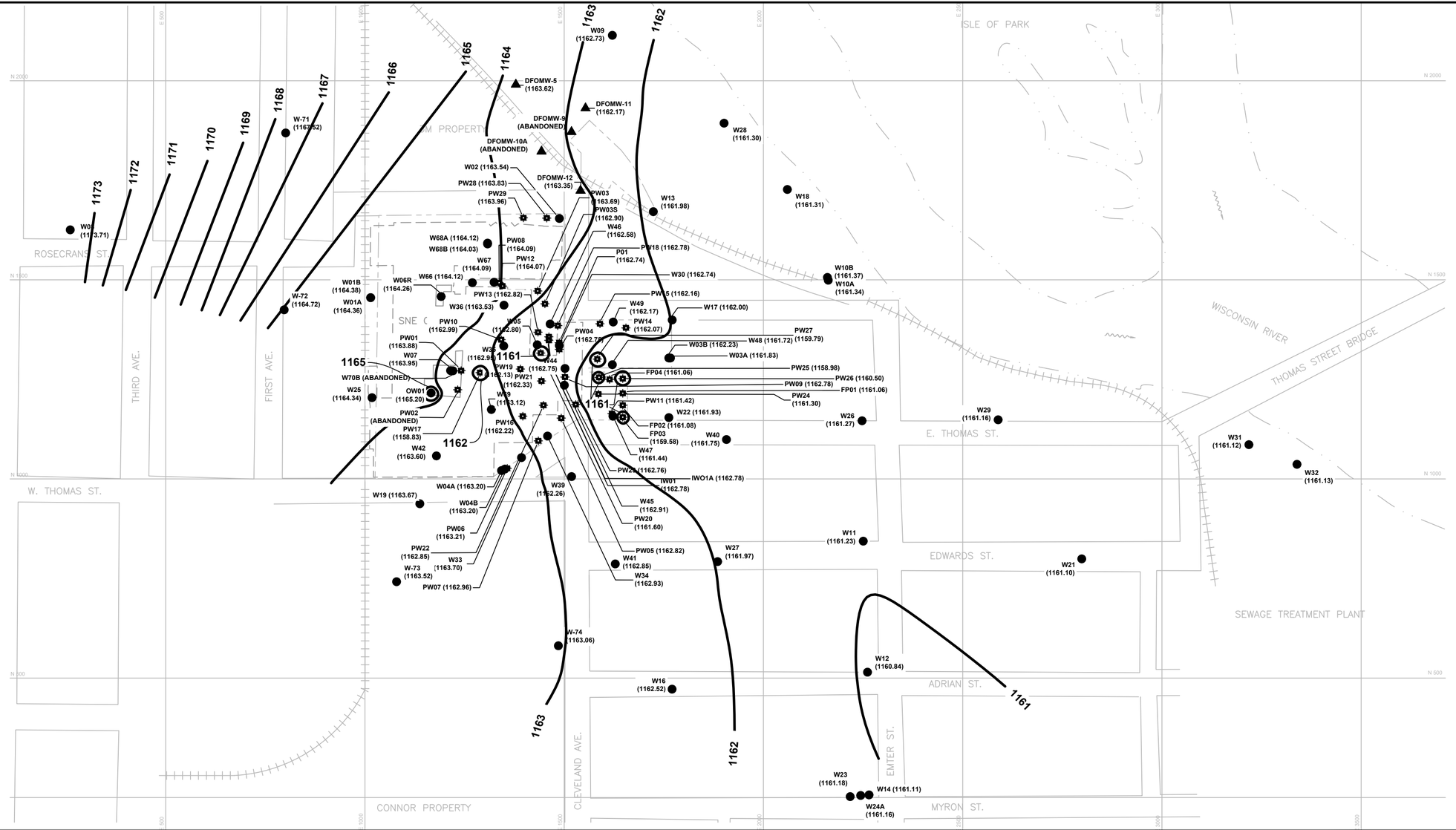
FILE NO.: 189597.0009.02.dwg



LEGEND

- W17 (1162.00) — MONITORING WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
- PW12 (1164.07) — EXTRACTION WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 1161 — WATER TABLE ELEVATION CONTOUR
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. WATER ELEVATIONS OBTAINED BY TRC ON JANUARY 4, 2019. ON THIS DATE, THE PUMPING RATE OF THE GROUNDWATER EXTRACTION SYSTEM WAS APPROXIMATELY 26 GPM.
3. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
WATER TABLE MAP (JANUARY 4, 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 3**
DATE:	APRIL 2020		

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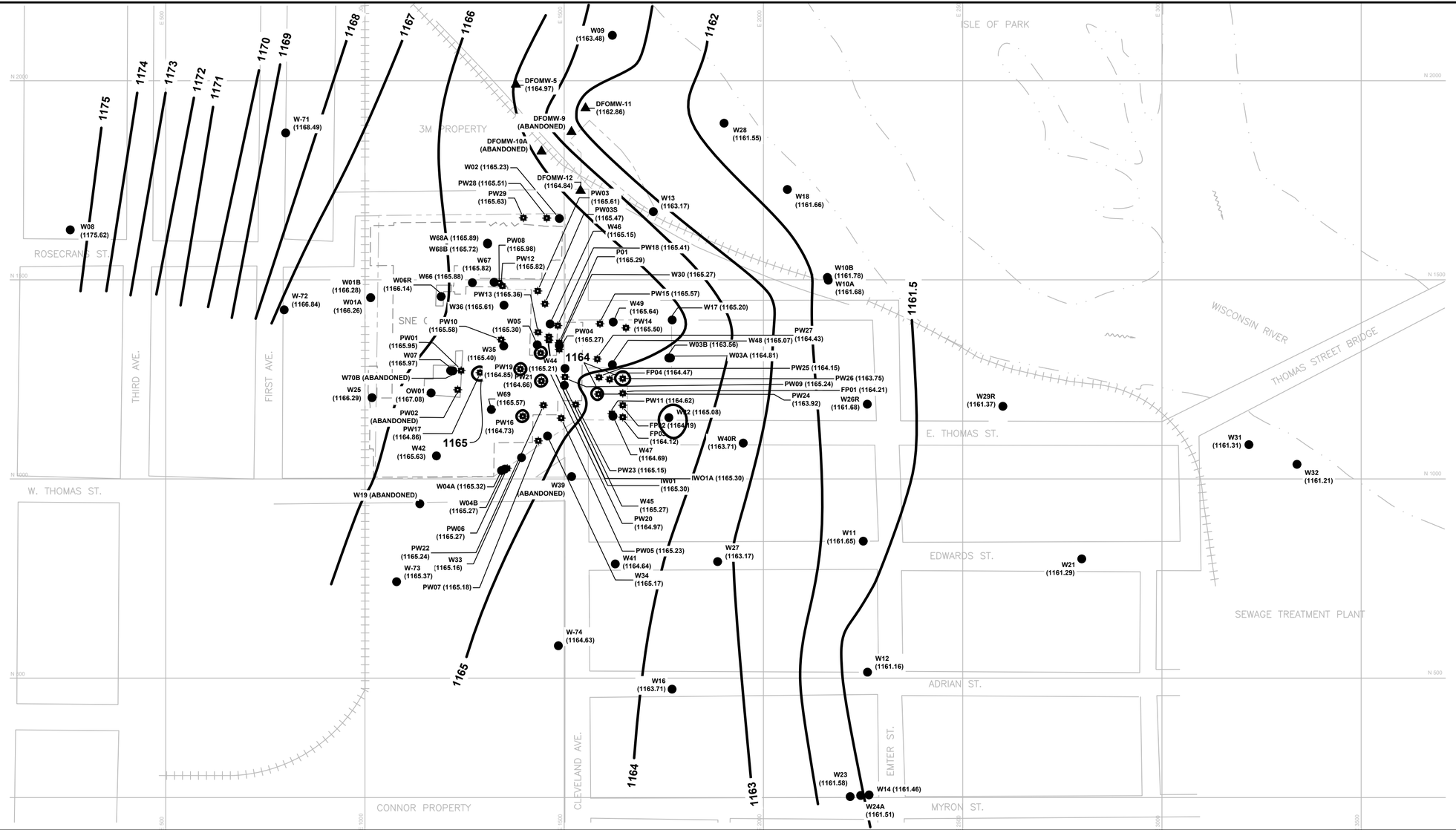
FILE NO.: 189597.0009.01.WT JAN 19.dwg



LEGEND

- W17 (1165.20) — MONITORING WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
- PW12 (1165.82) — EXTRACTION WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 1161 — WATER TABLE ELEVATION CONTOUR
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. WATER ELEVATIONS OBTAINED BY TRC ON JULY 3, 2019. ON THIS DATE, THE PUMPING RATE OF THE GROUNDWATER EXTRACTION SYSTEM WAS APPROXIMATELY 20.5 GPM.
3. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
4. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

N

0 200 400

SCALE IN FEET

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
WATER TABLE MAP (JULY 3, 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 4**
DATE:	APRIL 2020		

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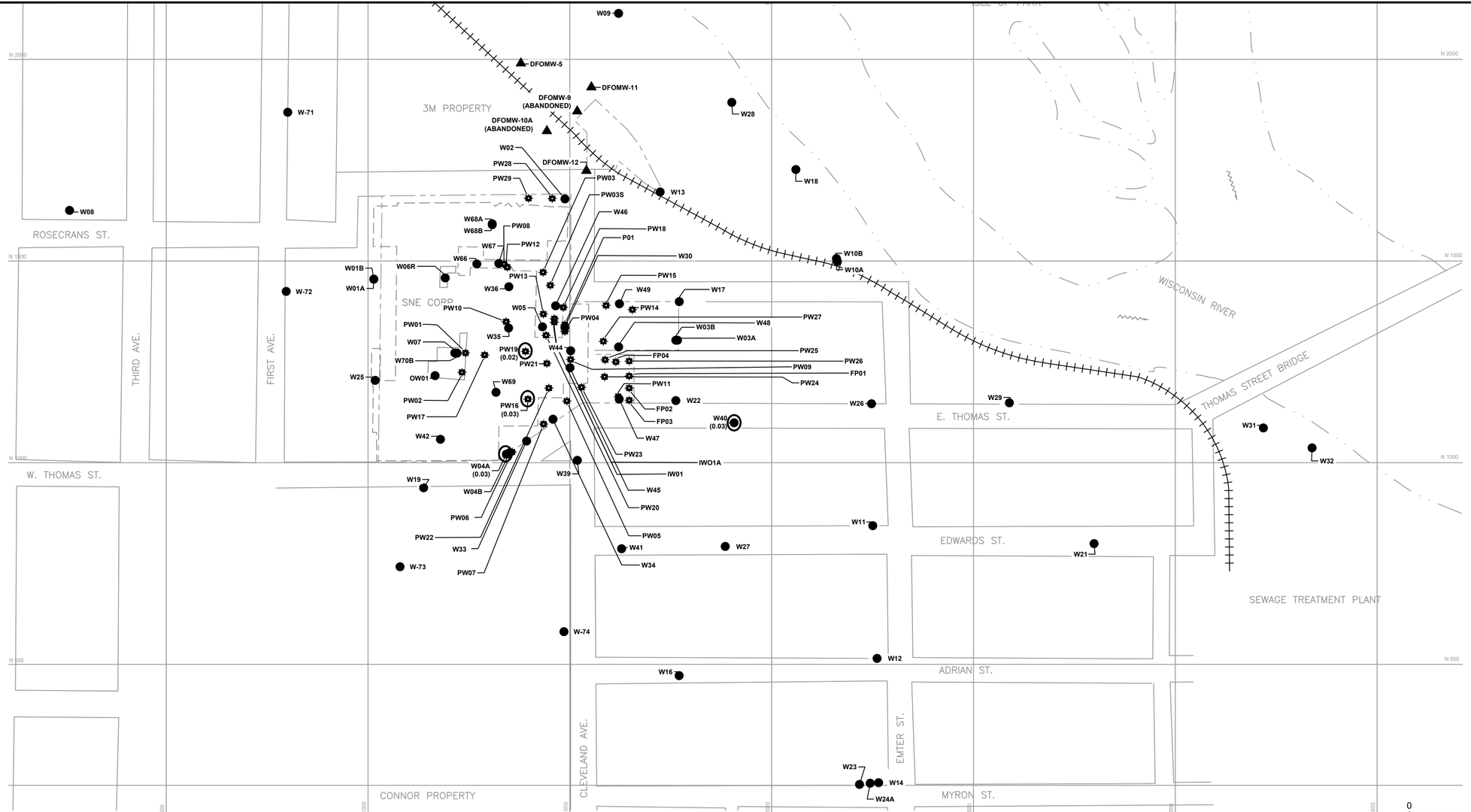
FILE NO.: 189597.0009.01 WT JUL19.dwg



LEGEND

- W17 ● — MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
- PW12 ✿ — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 ▲ — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- —0.00— APPARENT PRODUCT THICKNESS CONTOUR (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. PRODUCT THICKNESS OBTAINED BY TRC ON JANUARY 4, 2019.
3. ALL WELLS WITH NO PRODUCT THICKNESS VALUE INDICATES A VALUE OF "0.00".
4. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
PRODUCT (OIL) THICKNESS MAP
(JANUARY 4 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 5**
DATE:	APRIL 2020		

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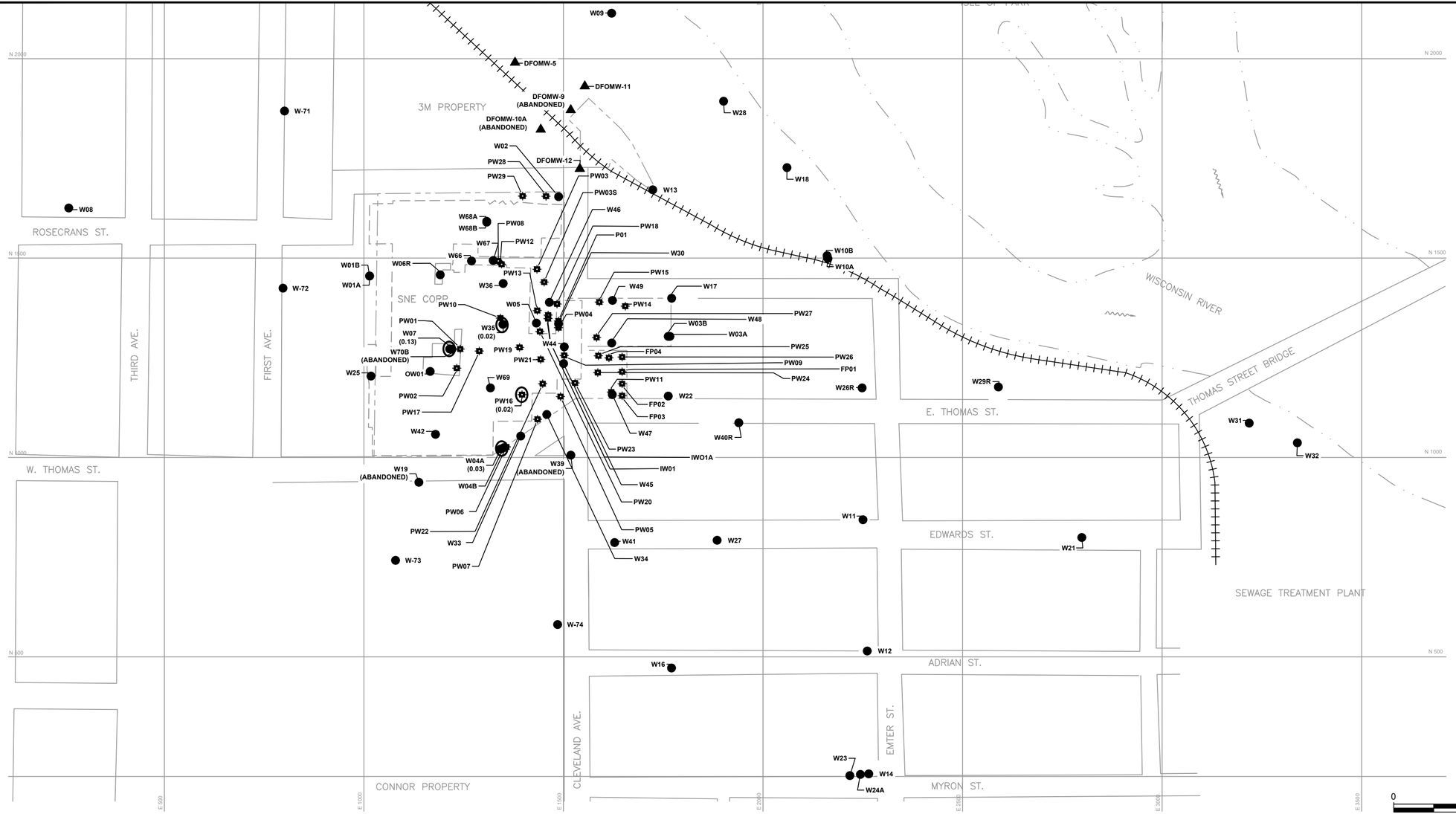
FILE NO.: 189597.0009.05.dwg



LEGEND

- W17 ● — MONITORING WELL LOCATION
- PW12 ✿ — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 ▲ — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- —0.00— APPARENT PRODUCT THICKNESS CONTOUR (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. PRODUCT THICKNESS OBTAINED BY TRC ON JANUARY 4, 2019.
3. ALL WELLS WITH NO PRODUCT THICKNESS VALUE INDICATES A VALUE OF "0.00".
4. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
5. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
PRODUCT (OIL) THICKNESS MAP (JULY 3 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 6**
DATE:	APRIL 2020		

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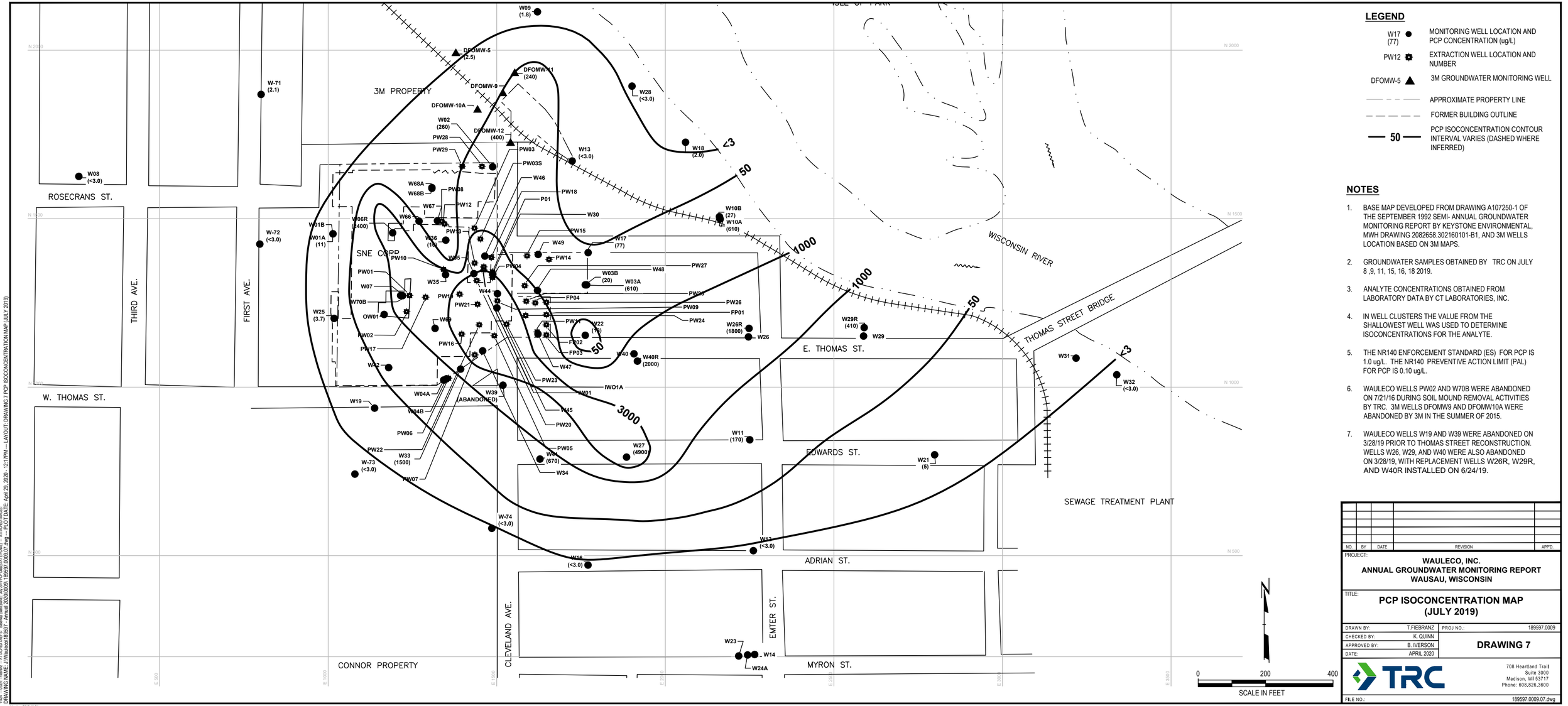

LEGEND

- W17 (77) — MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
- PW12 — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 50 — PCP ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 8 ,9, 11, 15, 16, 18 2019.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
5. THE NR140 ENFORCEMENT STANDARD (ES) FOR PCP IS 1.0 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR PCP IS 0.10 ug/L.
6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
7. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

NO.	BY	DATE	REVISION	APPD.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
PCP ISOCONCENTRATION MAP (JULY 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 7**
DATE:	APRIL 2020		

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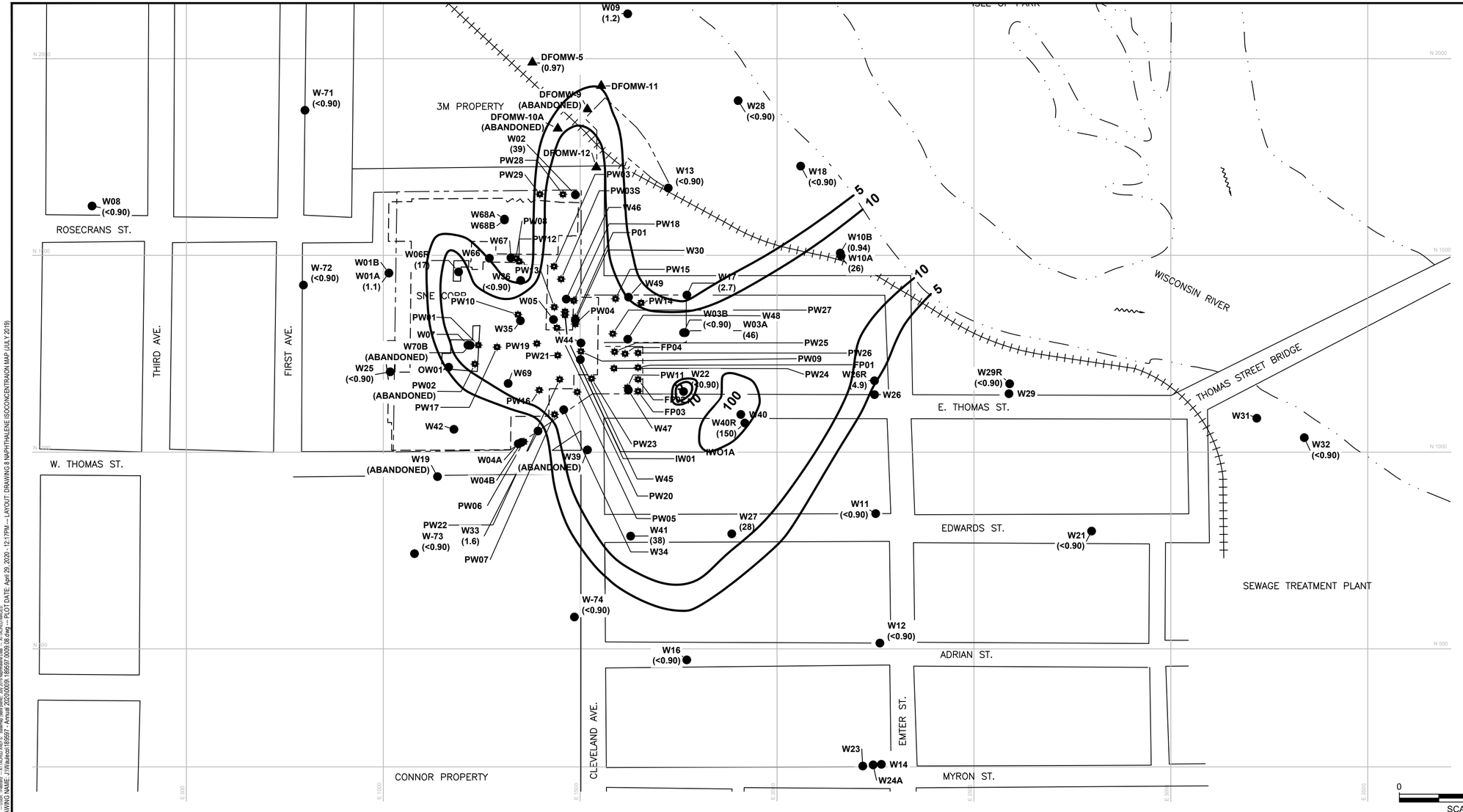

LEGEND

- W17 (2.7) — MONITORING WELL LOCATION AND NAPHTHALENE CONCENTRATION (ug/L)
- PW12 — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 10 — NAPHTHALENE ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 8, 9, 11, 15, 16, 18 2019.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
5. THE NR140 ENFORCEMENT STANDARD (ES) FOR NAPHTHALENE IS 100 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR NAPHTHALENE IS 10 ug/L.
6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
7. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
NAPHTHALENE ISOCONCENTRAION MAP (JULY 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 8**
DATE:	APRIL 2020		

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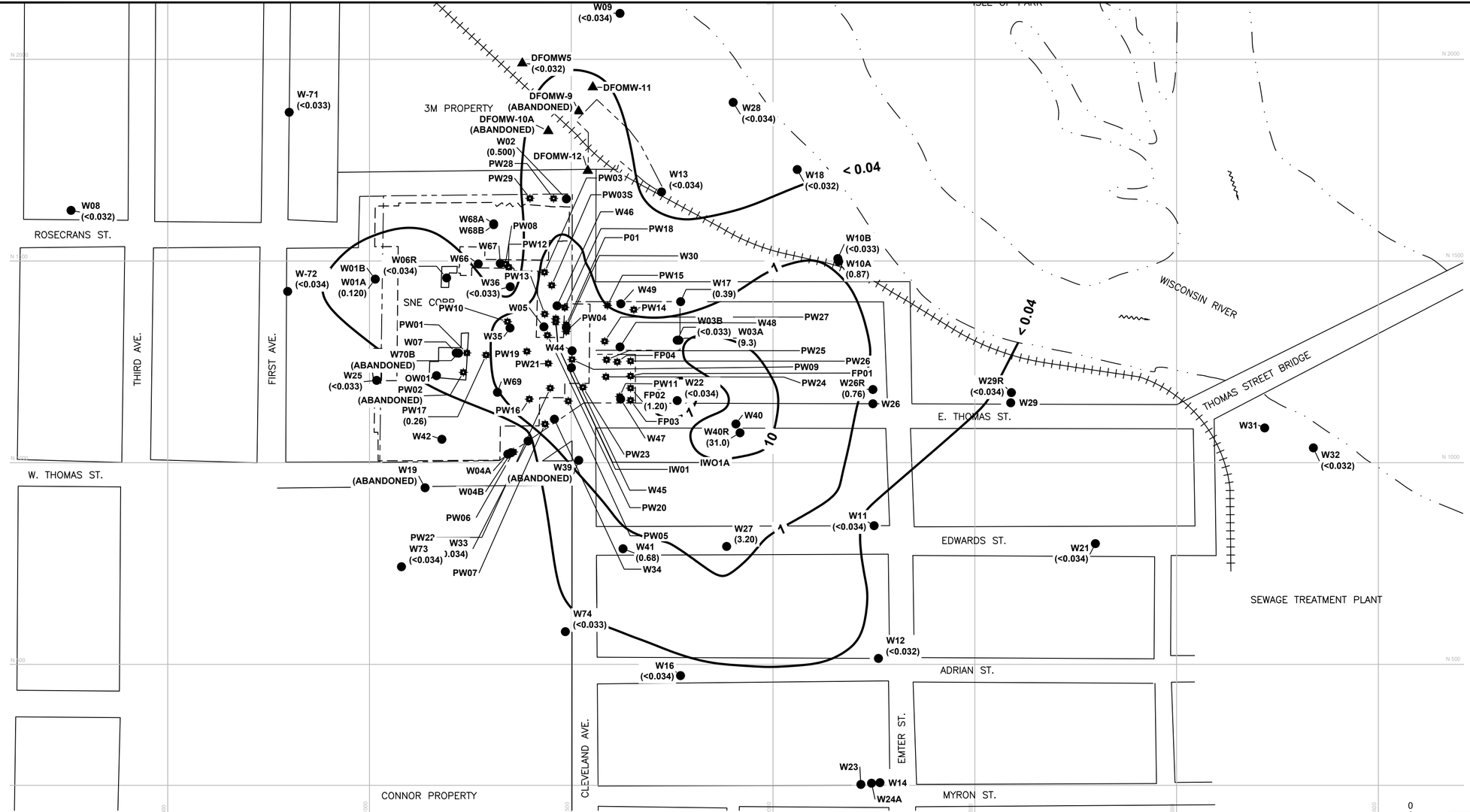
FILE NO.: 189597.0009.08.dwg



LEGEND

- W17 (0.39) — MONITORING WELL LOCATION AND TPH CONCENTRATION (mg/L)
- PW12 — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 1.0 — TPH AS MINERAL SPIRITS ISOCONCENTRATION CONTOUR (mg/L) INTERVAL VARIES (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 8, 9, 11, 15, 16, 18, 2019.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
5. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
6. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
TOTAL PETROLEUM HYDROCARBONS (TPH) AS MINERAL SPIRITS ISOCONCENTRATION MAP (JULY 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 9**
DATE:	APRIL 2020		

TRC
708 Heartland Trail
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Madison, WI 53717
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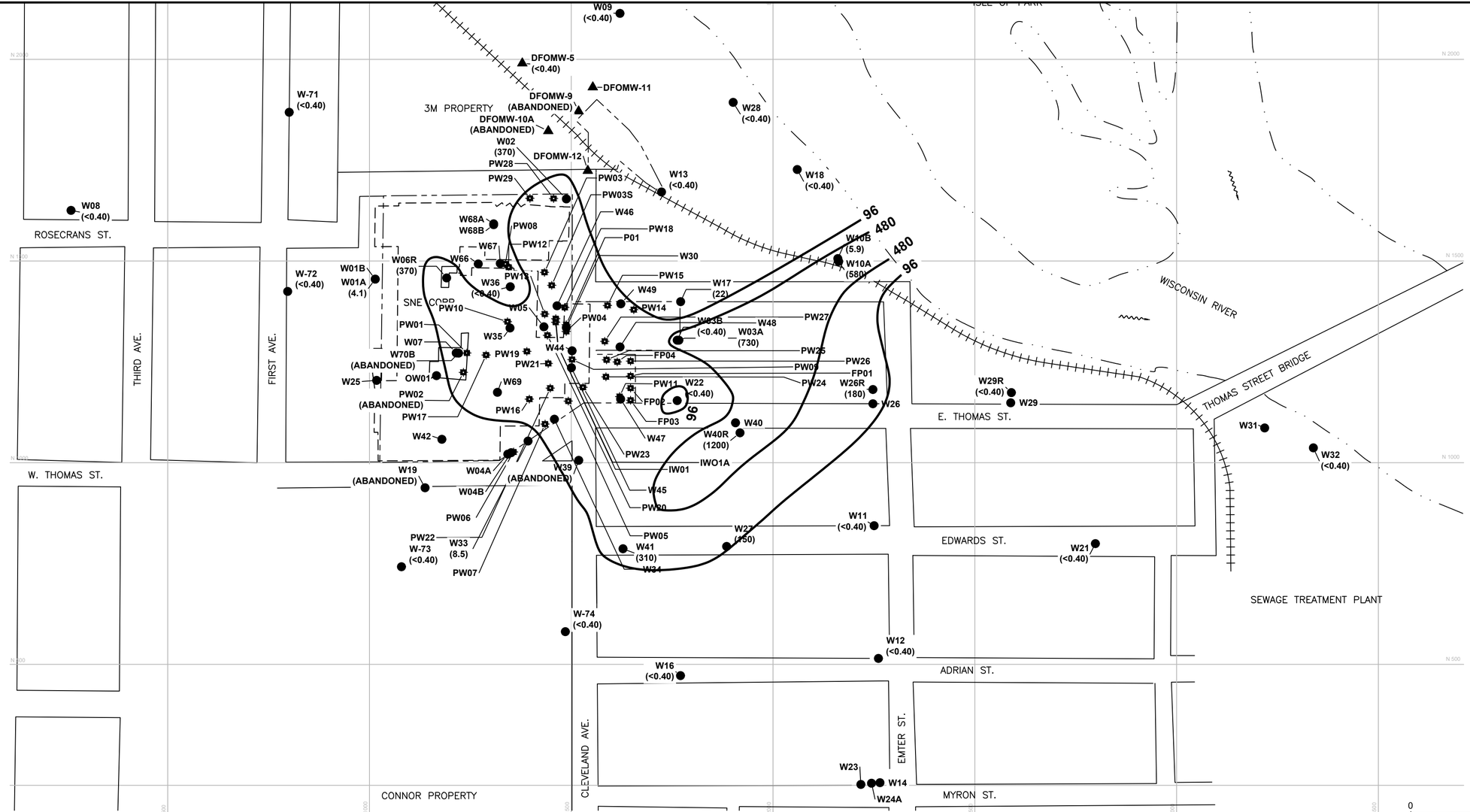
FILE NO.: 189597.0009.09.dwg



LEGEND

- W17 (22) — MONITORING WELL LOCATION AND 1,2,4 TRIMETHYLBENZENE CONCENTRATION (ug/L)
- PW12 — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 480 — 1,2,4 TRIMETHYLBENZENE ISOCONCENTRATION CONTOUR (μg/L) INTERVAL VARIES (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 8, 9, 11, 15, 16, 18, 2019.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
5. THE NR140 ENFORCEMENT STANDARD (ES) FOR TOTAL TRIMETHYLBENZENES IS 480 μg/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR TOTAL TRIMETHYLBENZENES IS 96 ug/L.
6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
7. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
1 2 4 TRIMETHYLLBENZENE ISOCONCENTRATION MAP (JULY 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 10**
DATE:	APRIL 2020		

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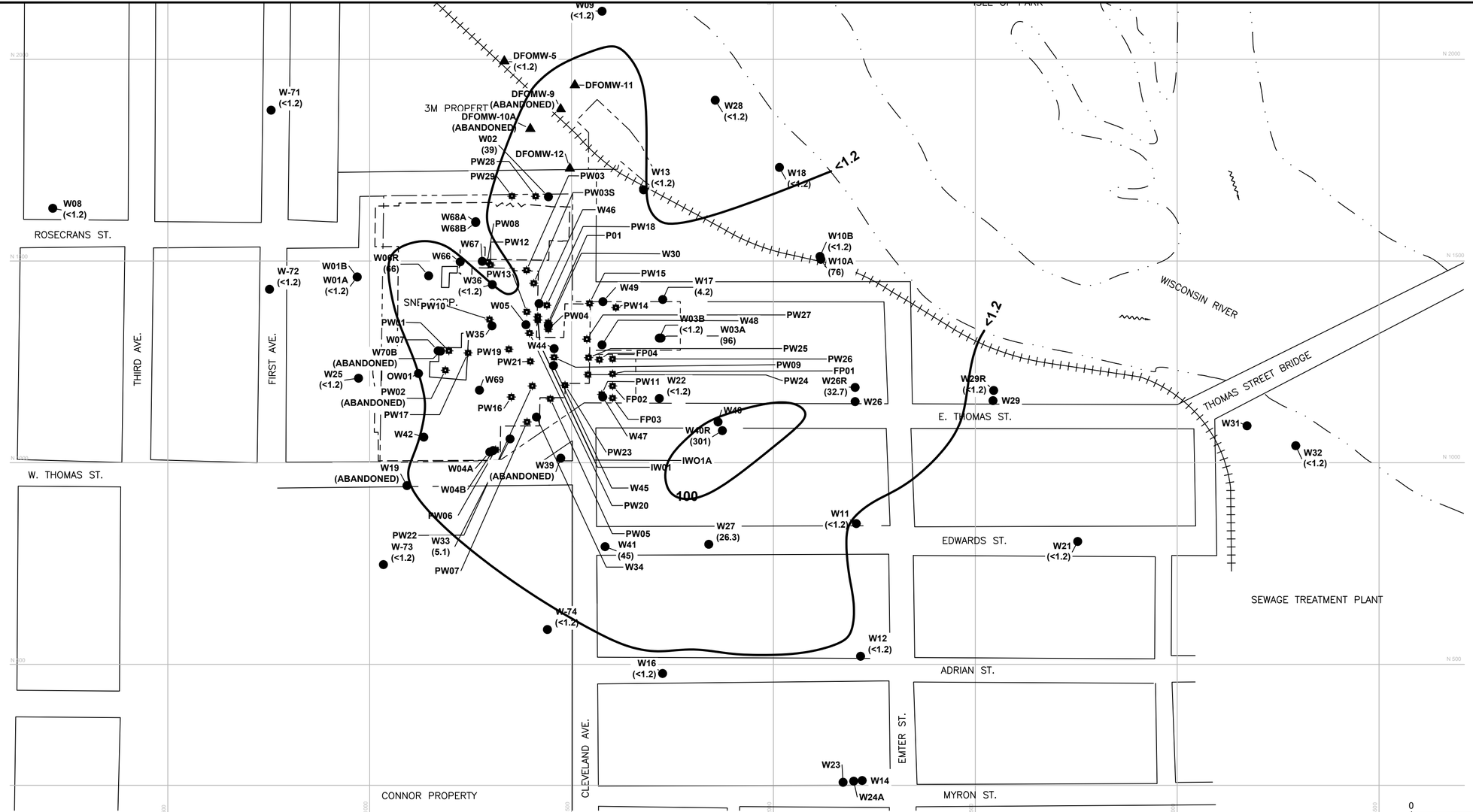
FILE NO.: 189597.0009.10.dwg



LEGEND

- W17 (4.2) — MONITORING WELL LOCATION AND TOTAL XYLENES CONCENTRATION (ug/L)
- PW12 — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 100 — XYLENE ISOCONCENTRATION CONTOUR (μg/L) INTERVAL VARIES (DASHED WHERE INFERRED)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 8, 9, 11, 15, 16, 18, 2019.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
5. THE NR140 ENFORCEMENT STANDARD (ES) FOR TOTAL XYLENES IS 2000 μg/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR TOTAL XYLENES IS 400 ug/L.
6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
7. WAULECO WELLS W19 AND W39 WERE ABANDONED ON 3/28/19 PRIOR TO THOMAS STREET RECONSTRUCTION. WELLS W26, W29, AND W40 WERE ALSO ABANDONED ON 3/28/19, WITH REPLACEMENT WELLS W26R, W29R, AND W40R INSTALLED ON 6/24/19.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE:
TOTAL XYLENES ISOCONCENTRATION MAP (JULY 2019)

DRAWN BY:	T.FIEBRANZ	PROJ NO.:	189597.0009
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING 11**
DATE:	APRIL 2020		

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 189597.0009.11.dwg

APPENDIX A

WDNR CORRESPONDENCE
MOBILE PRODUCT RECOVERY SYSTEM SHUTDOWN
JANUARY AND FEBRUARY 2011

Quinn, Kenneth

From: Gutknecht, Lisa A - DNR <Lisa.Gutknecht@Wisconsin.gov>
Sent: Wednesday, February 23, 2011 10:54 AM
To: Iverson, Bruce
Cc: Brandt Bob; Crass, David A (22267); Quinn, Kenneth
Subject: RE: Wauleco: Proposed Plan to Reduce the Pumping Rate/Responses to Comments

Bruce,

You have answered my questions and the additional activities should be added to your Proposed Plan to Reduce the Pumping Rate.

We can discuss the progress of the plan at the annual meeting or at the end of the year depending on the data that you will have collected. Thanks for addressing these issues. Lisa

Lisa Gutknecht
Remediation & Redevelopment Program
Wausau Service Center
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, WI 54401
(☎) phone: (715) 359-6514
(☎) fax: (715) 355-5253
(✉) e-mail: Lisa.Gutknecht@Wisconsin.gov

From: Iverson, Bruce [mailto:Bruce.Iverson@rmtinc.com]
Sent: Friday, February 11, 2011 2:36 PM
To: Gutknecht, Lisa A - DNR
Cc: Brandt Bob; Crass, David A (22267); Quinn, Kenneth
Subject: RE: Wauleco: Proposed Plan to Reduce the Pumping Rate/Responses to Comments

Lisa:
This email responds to your questions posed during our February 3, 2010 telephone conversation which was conducted in follow-up to my January 25, 2010 email (below) regarding Wauleco's Proposed Plan to Reduce the Pumping Rate. Specifically, you had two questions:

1. How will this change affect the checking for the presence of residual product in wells?
   Response: As we've discussed throughout the years and most recently at the 2010 Annual Meeting, when the project moves to the natural attenuation phase, there will be some residual product left on site. At present, the volume of free phase product is small, especially when compared to historic volumes and the volume that has been removed. In addition, we have shown that measuring the apparent product is not the best indicator of actual residual product present at the site. Indeed, the apparent product at several wells has been shown to be a relic from historic presence of free product. While the free product has been removed, the relic, apparent free product remained in some wells. For example, at last year's Annual Meeting, we discussed results of the free product assessment at wells W3A, W40, and W22 that showed no apparent free product remains in the aquifer at these locations. Since that time and per my 11-

18-2010 email that presented the plan for additional free product assessment (November 2010 Product Plan), we have continued removing apparent product from wells and have seen additional improvement. In summary, we are observing the following:

a. There are currently no off-site monitoring wells with free phase product. Therefore, the reduced pumping will not impact free phase product at off-site monitoring wells.
b. Over the last 15 months at on-site monitoring wells W2, W3A, W6R, W42, and W47, the product has been removed using absorbent socks and has not reappeared. There are currently three on-site wells (W4A, W7, and W35) that have had product re-accumulate after bailing and use of absorbent socks. The product has been bailed again, and use of the absorbent socks will continue.
c. In summary, there is relatively little free phase product remaining that could go into residual phase with the reduced pumping rate. Per our telephone conversation on December 13, 2010, once the reduced pumping rate is changed, Wauleco will implement the November 2010 Product Plan for pumping wells.

2. Because we are changing conditions, is more monitoring in wells down-gradient of the site needed to see assess groundwater concentrations?
   Response: Wauleco proposes to perform quarterly groundwater monitoring at the site for 2011. In addition, to the groundwater monitoring currently being performed during January and July, Wauleco will perform groundwater monitoring in 2011 during: 1) the end of March/beginning of April; and 2) the end of September/beginning of October. This additional monitoring will include the following:
   a. Collect samples at off-site wells W10A, W13, W19, W22, W26, W28, W39, and W41
   b. Analyze samples for PCP.
   c. Report and evaluate results in 2011 Annual Groundwater Monitoring Report that will be prepared and submitted in early 2012. Recommendations for continuing or discontinuing this monitoring will be included in the 2011 Annual Groundwater Monitoring Report.

If you have any questions or comments regarding these responses, please contact us. Thanks, Bruce

Bruce Iverson, Director of Business Development Federal Renewable Energy | **RMT** | 744 Heartland Trail
Madison WI 53717 Direct: 608.662.5269 | Cell: 608.235.4963 | Fax: 608.831.3334 | CREATING BALANCE

From: Iverson, Bruce
Sent: Tuesday, January 25, 2011 8:51 AM
To: Gutknecht, Lisa A - DNR
Cc: 'Brandt Bob'; 'Crass, David A (22267)'; Quinn, Kenneth
Subject: Wauleco: Proposed Plan to Reduce the Pumping Rate

Lisa
In follow-up to our telephone conversation this morning, as requested following is a summary of the proposed approach at Wauleco:

1. Consistent with the remediation sequence we have previously discussed, given the lack of product recovery the past two winters, typically our greatest product recovery months, and in particular these past three months were no product was recovered, we would like to turn off the product recovery system and revise the pumping rate to assess what effect it has on groundwater concentrations as part of our long term closure strategy.

2. As part of this, we will perform monthly water table elevations, similar to what is being done as part of the quarterly reports.
3. We'll continue to implement the "socks in wells" approach as presented in my 11-18-10 email to you.
4. We'll prepare water table elevation maps monthly for the first three months to demonstrate that containment is being achieved, and then quarterly to assess seasonal changes.
5. We'll provide this information in the quarterly reports, unless we see something not expected and then we'll contact you to discuss.
6. We can discuss the results as part of our Annual Meeting that we will target for May 2011 at which time we will have 3 months of results we can discuss

As we discussed, neither of us were aware of any specific approvals needed from the WDNR for Wauleco to implement this plan. However, consistent with our approach and relationship with you to date, we wanted to keep you informed of our approach. Let's plan on touching base next week after you have had a chance to review this proposed plan. In the meantime, if you have any questions, please contact me. Thanks, Bruce

Bruce Iverson, Director of Business Development Federal Renewable Energy | **RMT** | 744 Heartland Trail
Madison WI 53717 Direct: 608.662.5269 | Cell: 608.235.4963 | Fax: 608.831.3334 | CREATING BALANCE

APPENDIX B

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

B1 Water Quality Indicators
B2 Phenolics
B3 Volatile Organic Compounds

B1

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	Dissolved Mercury	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)	(ug/L)
02/19/1992							3.32		107			<630	
06/14/1992							2.94		85.2			<500	
09/17/1992			<1				1.97	1.86	89.8			<500	43,000
12/18/1992			<1				2.58		62.5			11,000	33,000
03/23/1993			0.24			2.22			83			2,500	36,600
06/28/1993			0.11			2.18			77			2,800	
12/28/1993			<0.2			2.86			92			<1000	
04/25/1994			0.27			1.36			117				
06/21/1994			0.15			1.62			96			6,000	
10/04/1994			0.24			2.3			93				
01/05/1995			0.37			1.69			103				
03/10/1995			0.23			2.2			115				
07/05/1995	<0.25		0.17	<0.25	<0.25	2.77			136			380	
09/13/1995			0.36			1.61			80				
12/18/1995			0.2			2.61			147				
03/21/1996			0.4			2.7			134				
07/10/1996	<0.25	<1	0.16	<0.25	<0.25	2.22			75			950	
09/25/1996			<0.1			2.26			97				
01/21/1997			<0.1			2.14			118				
07/11/1997			<0.1			2.14			89.4			49,000	
01/02/1998			<0.1			2.03			161				
06/23/1998			<0.1			2.1			110		<0.2	33,000	
01/26/1999			<0.1			3.09			245		<0.2		
06/09/1999			0.29			1.98			158			110,000	
01/11/2000			<0.1			2.98			209		<0.16		
07/18/2000			<0.02			3.07			165		<0.16	94,000	
01/31/2001			<0.02			3.80			194		<0.12	560	
07/09/2001			0.15			5.40			100		<0.14	45,000	
01/15/2002			<0.020			4.10			150				
08/06/2002			<0.020			5.80			150		<0.070	13,000	
01/14/2003			<0.070			3.60			76				
07/22/2003			0.14			2.70			51		<0.070	10,000	
01/20/2004			0.068			1.60			65				
07/13/2004			<0.030			3.04			38.1		<0.11	830 Y	
01/19/2005			<0.030			3.20			60				
07/21/2005			<0.030			2.10			66		<0.090	900	
01/17/2006			<0.023			1.73			74.3				
07/18/2006			<0.023			4.00			94		<0.060	15,000	
01/23/2007			<0.023			5.10			190				
07/11/2007			<0.021			4.10			170		0.08	1,800 Q	
01/29/2008			<0.021			5.5 Q			230 Q				
07/23/2008			<0.080			6.60			180		<0.050	500	
01/20/2009			<0.080			4.40			300				
07/06/2009			0.3			7.00			240		<0.040	14,000	
01/18/2010			<0.030			5.20			240				
07/13/2010			<0.050			5.30			290		<0.040	3,800 M	
01/24/2011			0.058			6.50			220				
07/19/2011			0.039			4.90			91		0.10	2,100	
01/23/2012			0.16			3.70			180				
07/06/2012			<0.030			5.10			140		0.020	1,800	
01/04/2013			<0.030			3.20			140				
07/05/2013			0.084			3.30			63		0.030	1,500	
07/07/2014							4.7			<0.016		3,300	
07/07/2015							4.2			<0.050		830	
07/06/2016							4.4			0.042		410	
07/11/2017							4.2			<0.020		360 B	
07/12/2018							3.3			0.054		210 Q	
07/09/2019							3.4			<0.020		120	

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987				7.01				2.94	<5		436	3848	30.2						22.3	769	<10	371	<100
06/04/1987				6.62				2.73	<5		491	9260	29.9						<10	<200	<10		140
09/03/1987				3.9				3.56	<5		421	11100	20.5						<10	<200	<10		
12/03/1987				1.66				3.56	<6		347	1480	38.5										
03/02/1988				3.49				3.16	14.7		457	1590	32.4	125									
04/07/1988				3.68				3.73	<6		441	1900	27	119					<10	<200	<10		
08/10/1988				7.44				1.47	8.53		585	2040	37.9	133					<10	<200	<10		
11/15/1988				12				0.99	9.39		419	352	28.8	122					<10	<200	<10		
01/26/1989				4.37				1.94	6.45		437	629	<10	128									
04/27/1989				10.5				0.71	19.3		373	2660	31	144					<10	<200	<10		
07/27/1989				50.4				0.78	7.76		1,720	1200	32.6	103					<10	<200	<10		
10/26/1989				4.91				1.05	<6		473	1380	35.8	127					<10	<200	<10		
01/25/1990				13.3				0.3	11.4		331	1190	31.7	95.4					<10	<200	<10		
05/03/1990				10.6				0.61	<6		462	808	10.6	129					<10	<200	<10		
09/20/1990				7.24				0.66	9.21		428	1320	29.4	132					<10	<200	<10		
12/11/1990				11.9				1.83	<6		403	1900	33.6	97.5					<10	<200	<10		
01/30/1991				14.2				4.71	11.6		364	936	35.9	95.8					<10	<200	<10		
05/01/1991				23.9				4.13	20		477	894	32.5	107					<10	<200	<10		
10/08/1991				14				<0.02	12.7		450	1460	29.8	117					<10	<200	<10		
02/20/1992								<0.02	0					119			1,110						
06/14/1992								0.054	220					128			<500						
09/17/1992			<1					0.023		2.52				158			<500	65,800					
12/18/1992			<1					0.093						182			35,000	68,300					
03/24/1993			0.17				0.55							239			3,500	88,600					
04/25/1994			0.17				0.18							151									
06/22/1994			<0.1				1.46							146			5,500						
10/04/1994			0.16				0.13							117									
01/05/1995			<0.1				1.11							120									
03/10/1995			0.13				1.34							117									
07/06/1995	<0.25		0.41		<0.25	<0.25	0.79							113			8,800						
09/13/1995			0.13				0.66							114									
12/18/1995			0.14				0.69							97									
03/21/1996			0.13				0.74							89									
07/10/1996	<0.25	<1	0.13		<0.25	<0.25	1.2							58			4,200						
01/21/1997			<0.1				1.13							93									
07/11/1997			<0.1				0.17							54.5			<450						
01/02/1998			<0.1				0.54							54.8									
06/25/1998			<0.1				1.12							76		0.4	9,100						
01/27/1999			0.1				<0.41							<41		<0.6							
01/15/2003			<0.070				2.4							120									
07/22/2003			0.077				0.96							60		2	35,000						
01/21/2004			0.21 J				0.35 J							35									
01/21/2004			0.19 JB				0.37 J							34									
07/14/2004			0.086 J				1.27							26.9		0.83	9,400 Q						
01/20/2005			0.044Q				0.78							28									
01/20/2005			0.032Q				0.8							28									
07/21/2005			0.16				0.25							44		0.61	19,000						
7/21/2005 Duplicate			0.15				0.4							33		0.69	17,000						
01/17/2006			0.15				0.17							31.9									
1/17/2006 Duplicate			0.15				0.4							23.4									

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/18/2010			0.23				1.7							83									
1/18/2010 Duplicate			0.13				3.9 V							79									
07/15/2010			0.24				1.6							180		0.49	13,000						
01/25/2011			0.12				3.1							200									
07/20/2011			0.042				1.8							84		0.86	17,000						
01/18/2012			0.28				2.3							230									
07/10/2012			0.18				1.2							150		0.8	6,100						
7/10/2012 Duplicate			0.17				1.2							200		0.82	2,800						
01/07/2013			<0.030				3.9							72									
07/08/2013			<0.040				1.6							61		0.29	6,400						
07/16/2014								1.5							<0.016		4,500						
07/08/2015								2.1							<0.050		4,600						
07/07/2016								1.6							0.063		2,400						
7/7/2016 Duplicate								1.6							0.065		2,900						
07/13/2017								0.96							<0.020		3,200						
7/13/2017 Duplicate								2.6							<0.020		3,000						
07/12/2018								3.4							0.037		2700 Q						
7/12/2018 Duplicate								1.3							0.03		2400 Q						
07/11/2019								1.8							<0.020		500						
7/11/2019 Duplicate								1.9							<0.020		520						

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W03A

Date	#2 Fuel Oil	Ammonia Nitrogen Total	Nitrate	Nitrate + Nitrite Nitrogen	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Total Sulfate	Total Organic Carbon	Dissolved Iron	Dissolved Manganese
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)
01/18/2010		<0.030		<0.12 V	160							
07/15/2010		<0.050		<0.30 V	560		0.97	45,000 MY				
01/24/2011		<0.050		<0.060	35							
07/20/2011		0.031		<0.18	35		0.64	10,000				
01/18/2012		<0.17		<0.18	17							
1/18/2012 Duplicate		<0.17		<0.18	17							
07/10/2012		<0.030		<0.030	170		0.58	5,900				
01/07/2013		<0.030		<0.040	19							
07/05/2013		<0.040		<0.080	280		0.3	7,900				
01/21/2014			0.19									
07/09/2014			0.13			<0.016		4,600				
7/9/2014 Duplicate			0.13			<0.016		4,800				
01/19/2015			<0.040									
07/08/2015			<0.040			<0.050		9,700				
7/8/2015 Duplicate			<0.040			<0.050		11,000				
01/19/2016			<0.040									
07/07/2016			<0.040			0.046		2,900				
01/19/2017			<0.040									
07/17/2017			<0.040			<0.020		3,400	3.1	4.6	2840	4920
01/11/2018			<0.040					5,000	1.7	6.9	1290	1150
07/18/2018			<0.12			<0.020		4,400	220	6.8	7450	12800 M
01/24/2019			<0.12					5,000	4.3	4.6	1460	800
07/11/2019			<0.12			<0.020		9,300	1.1	4.6 Y	7100	13200

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
06/17/1991							4.2	<1	18			6000		<1
02/22/1992							4.62		16.5			1000		
09/17/1992			<1				4.59	<1	12.2			1100	<5000	
12/18/1992			<1				3.58		13.4			3000	5970	
03/23/1993			<0.1			3.75			14			<500	4900	
06/29/1993			0.33			3.47			18			<1000		
12/28/1993			<0.2			3.88			14			<1000		
06/22/1994			<0.1			4.23			15			<1000		
07/06/1995	<0.25		0.2	<0.25	<0.25	3.66			14			<250		
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25	3.96			14			<250		
07/11/1997			<0.1			3.93			14			<260		
06/24/1998			<0.1			3.48			16.9		<0.2	<250		
06/09/1999			0.12			3.82			15.7			<100		
07/18/2000			<0.02			3.72			20.4		<0.16	<500		
01/31/2001			<0.02			3.87			18.3		<0.12	<500		
07/11/2001			<0.020			3.6			18		<0.14	<500		
08/06/2002			<0.020			4.400			23		<0.070	<500		
07/24/2003			<0.011			3.3			21		<0.070	<27		
07/13/2004			<0.030			4.09			20.8		0.13 J	<27		
07/20/2005			<0.030			3.7			29		<0.090	<27		
07/18/2006			<0.023			2.8			29		<0.060	<510		
07/11/2007			<0.021			2.6			27		<0.080	<27		
07/23/2008			<0.080			3.2			43		<0.050	78		
07/06/2009			0.31			0.74			42		<0.040	<27		
07/15/2010			<0.050			2.5			100		<0.040	430		
07/18/2011			<0.022			2.2			52		<0.030	300		
07/06/2012			<0.030			3.4			57		0.020	50		
07/01/2013			<0.040			2			140		<0.016	110		
07/09/2014							3			<0.016		<27		
07/07/2015							3.3			<0.050		45		
07/05/2016							3.9			0.090		<33		
07/13/2017							2.9			<0.020		57		
07/11/2018							3.4			0.062 M		<31		
07/09/2019							3.1			<0.020		<33		

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W06R

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
07/24/2003	0.018		0.49	47		1.6	140,000				
07/23/2008	0.26		1.4	170		1.6	120,000				
7/23/2008 Duplicate	0.24		1.7	170		0.54	130,000				
01/19/2010	0.096		0.59	140							
07/14/2010	0.23		9.5	96		0.37	69,000				
01/25/2011	0.11		1.7	210							
1/25/2011 Duplicate	0.18		1.4	170							
07/25/2011	<0.022		0.65	86		1.6 Y	10,000				
01/18/2012	0.35		1.6	200							
07/09/2012	0.087		1.3 M	76		0.22	3,900				
01/07/2013	0.068		1.2	77							
07/08/2013	0.14		4.8	52		0.21	14,000				
7/8/2013 Duplicate	0.12		3.9	54		0.24	13,000				
01/21/2014		1.2									
1/21/2014 Duplicate		1.2									
07/09/2014		7.6			<0.016		2,500				
01/19/2015		3									
07/09/2015		3.9			<0.050		3,200				
7/9/2015 Duplicate		3.6			<0.050		2,800				
01/19/2016		3.4									
1/19/2016 Duplicate		3									
07/12/2016		4.6			0.15		400				
01/16/2017		0.8									
07/18/2017		4.9			<0.020		50	83	8.7	<59	12
01/11/2018		1.3					1,900	46 M	7.8	<59	92
07/12/2018		2.7			0.034		97 Q	54 M	3.8	<59	67.7
01/24/2019		0.68					570	30	6	<59	167
07/11/2019		3.2			<0.020		370	50	7.4	<59	652

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

Date	#2 Fuel Oil	#6 Fuel Oil	Alkalinity, Bicarbonate	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Phosphorus, Phosphate	Sulfate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Calcium	Magnesium	Dissolved Manganese	Potassium
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987					6.28					<0.02	<5		22.7	33					<10	382.5	<10	96		250				
06/04/1987					2.74					2.18	<5		<10	28.1					<10	<200	<10			130				
09/03/1987					2.9					0.99	18.5		26	24					<10	<200	<10							
12/03/1987					3.52					0.54	<6		30.1	17.2														
03/03/1988					2.44					0.73	<6		20.7	25.7														
04/07/1988					4.7					1.1	7.38		31.5	25.5					<10	<200	<10							
08/10/1988					3.3				220	0.49	<6		79.1	18.2					<10	<200	<10							
11/15/1988					3.59					0.57	9.22		13	23					<10	<200	<10							
01/26/1989					1.93					0.51	<6		<10	21.5														
04/27/1989					2.82					0.63	8.77		20.7	19					<10	<200	<10							
07/27/1989					50.4					1.01	<6		25.5	20.8					<10	<200	<10							
10/26/1989					3.06					0.59	<6		21.5	18					<10	<200	<10							
01/25/1990					2.99					0.5	<6		24.3	16.4					<10	<200								
05/03/1990					2.58					0.35	<6		20.5	16					<10	<200	<10							
09/20/1990					2.69					0.3	<5		<10	19.5					<10	<200	<10							
12/11/1990					5.52					0.58	<6		14.6	17.5					<10	<200	<10							
01/29/1991					4.12					0.74	<6		16.3	19.7					<10	<200	<10							
05/01/1991					5.96					0.58	<6		10.6	14.4					<10	<200	<10							
10/08/1991					2.94					0.86	<6		21.8	48.6					<10	<200	<10							
10/29/1991			79.4										18	42.6				13500		<200					38600	10500		<5000
12/22/1991			54.5										17.2	31.7				10800		<200					25400	6970		
02/20/1992										2.87				33.7														
06/14/1992										2.66				73			<500											
09/17/1992				<1						2.98		1.53		58			<500	15700										
12/19/1992				<1						2.38				59.8			2000	16000										
03/23/1993				0.2					5.06					60			<500	15300										
06/28/1993				0.18					1.85					66			<1000											
12/27/1993				<0.2					2.58					62			<1000											
04/25/1994				0.1					2.72					74														
06/21/1994				<0.1					2.41					72			<1000											
10/04/1994				<0.1					0.44					56														
01/05/1995				<0.1					2.44					60														
03/09/1995				<0.1					2.52					82														
07/06/1995	<0.25			0.13		<0.25	<0.25		2.53					76			<250											
09/13/1995				<0.1					2.18					73														
12/18/1995				<0.1					1.8					61														
03/20/1996				0.12					3.22					59														
07/08/1996	<0.25	<1		<0.1		<0.25	<0.25		2.18					71			<250											
09/25/1996				<0.1					2.02					46														
01/21/1997				<0.1					2.85					70														
07/11/1997				<0.1					3.62					75.6			<250											
01/02/1998				<0.1					3					74.4														
06/23/1998				<0.1					3.04					84.7		<0.2	<250											
01/26/1999				<0.1					3.18					101		<0.2												
06/07/1999				<0.1					3.16					73.4			<100											
01/11/2000				<0.1					3.45					122		<0.16												
07/17/2000				<0.02					2.77					174		<0.16	<500											
01/30/2001				<0.02					3.71					148		<0.12	<500											
07/10/2001				<0.02					3.20					72		<0.14	<500											
01/15/2002				<0.020					4.50					260														
08/05/2002				<0.020					4.00					100		<0.070	<500											

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

Date	#2 Fuel Oil	#6 Fuel Oil	Alkalinity, Bicarbonate	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Phosphorus, Phosphate	Sulfate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Calcium	Magnesium	Dissolved Manganese	Potassium
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/14/2003				<0.070					5.60					98														
07/22/2003				0.015					3.90					89		<0.070	<27											
01/20/2004				<0.03					4.80					150														
07/12/2004				<0.030					4.34					76.8		<0.11	30 J											
01/19/2005				<0.030					6.90					130														
07/19/2005				<0.030					5.4					110		<0.090	42											
01/17/2006				<0.023					5.88					99.6														
07/18/2006				<0.023					6.10					60		<0.060	<660											
01/23/2007				<0.023					6.70					100														
07/09/2007				<0.021					5.50					96		<0.080	<31											
01/28/2008				<0.021					6.4 Q					100														
07/22/2008				<0.080					4.20					89		<0.050	77											
01/20/2009				<0.080					7.50					120														
07/06/2009				<0.030					6.00					92		<0.040	<26											
01/18/2010				<0.030					<0.12					130														
07/13/2010				<0.050					6.20					120		<0.040	<26											
01/25/2011				<0.050					4.50					120														
07/18/2011				<0.022					3.90					98		0.050	<27											
01/17/2012				<0.17					6.70					120														
07/06/2012				<0.030					5.00					87		0.030	<27											
01/04/2013				<0.030					4.60					82														
07/01/2013				<0.040					3.40					88		<0.016	<26											
01/22/2014					0.75					5.1			26				<27						<5.0				<0.5	
07/07/2014					0.9					3.1			22		<0.016		<27						12.5				<1.6	
01/15/2015					1.2					3.5			18				<27 M						<10				<1.6	
07/06/2015					2.2					4			20		<0.050		<27						<10				<1.6	
01/13/2016					1					5.5			22				<27						135				<1.6	
07/05/2016					0.86					3.5			18		0.030		<34						32.1				<1.6	
01/16/2017					1.6					4.1			23				<33						<59				<2.2	
07/10/2017					0.90					3			18		<0.020		<43						<59				<2.2	
01/10/2018					0.82					4.6			26				<33						<59				<2.2	
07/10/2018					0.43					4.2			16		<0.020		<31						<59				<2.2	
01/22/2019					1.30					3.5			15				<32						<59				<2.2	
07/08/2019					1.30					3			16		<0.020		<32						<59				<2.2	

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Iron	Calcium	Magnesium	Potassium
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
06/04/1987						19.4				0.22	8.15		455	8790	<10	117					<10	<200	<10	3980			
09/03/1987						7.47				0.04	11.2		381	860	<10	71.9					<10	<200	<10				
12/03/1987						8.63				<0.02	<6		312	407	22	40											
03/02/1988						8.33				0.08	13.4		336	1260	13.8	51.4											
04/07/1988						7.3				0.13	<5		272	812	17.3	48					<10	<200	<10				
08/10/1988						10.6				0.02	9.35		163	6430	29.9	45.6					<10	<200	<10				
11/15/1988						8.68				0.05	<6		1330	128	<10	35					<10	<200	<10				
01/26/1989						6.83				0.03	6.47		310	294	<10	39.1											
04/27/1989						6.79				0.09	6.92		338	987	10.9	55					<10	<200	<10				
07/27/1989						31.8				0.12	<6		358	962	12.3	44.7					<10	<200	<10				
10/26/1989						8.25				0.2	<5		344	960	10	45.6					<10	<200	<10				
01/25/1990						7.84				0.07	<6		333	579	<10	58.8					<10	<200	<10				
05/03/1990						15.9				0.02	<6		366	291	<10	71					<10	<200	<10				
09/20/1990						12.1				0.04	<5		346	490	<10	32.5					<10	<200	<10				
12/11/1990						5.91				0.06	<6		416	336	12.1	98.4					<10	<200	<10				
01/29/1991						8.42				0.04	<6		493	467	11.2	153					<10	<200	<10				
05/01/1991						9.83				0.65	<6		527	454	13.1	144					<10	257	<10				
10/08/1991						70.8				0.44	<6		526	1260	<10	142					<10	<200	<10				
10/29/1991			209	209								1.25			11.5	172				90,300		211			67,600	17,600	<5000
12/22/1991			223	223								2.69			<10	118				83,800		<200			50,000	13,100	<5000
06/18/1992					1.36					<0.02		2.99				82.6			<500								
12/17/1992					<1					0.063						39.3			3,000	76,400							
06/28/1993					0.27				0.5							40			<1000								
12/28/1993					0.83				0.08							135			<1000								
06/22/1994					0.58				0.23							67			<1000								
07/05/1995	<0.25				0.91		<0.25	<0.25	0.1							204			<250								
07/09/1996	<0.25	<1			0.4		<0.25	<0.25	<0.02							67			290								
07/11/1997					0.3				0.16							37.1			<270								
06/24/1998					0.16				<0.14							64		2.5	<250								
06/07/1999					0.39				<0.14							48.2			<100								
07/18/2000					0.08				<0.08							21.9		0.96	<500								
01/30/2001					0.190				<0.08							29.0		1.1	<500								
07/10/2001					0.280				<0.18							31.0		<0.14	<500								
07/23/2003					0.460				<0.13							45.0		0.42	150								
07/12/2004					0.40				<0.13							49.5		0.53	270								
07/18/2005					0.36				<0.10							68		0.92	2,400								
07/18/2006					0.24				220							60		1.0	1,500								
07/10/2007					0.25				0.33							46		2.6	56								
07/23/2008					0.26				<0.12							43		1.1	110								
07/07/2009					0.26				0.48							110		0.22	3,300								
07/13/2010					0.37				0.19 V							180		0.43	1,900								
07/18/2011					0.32				<0.18							370		0.34	2,800								
07/19/2012					0.36				<0.030							480		4.50	2,100								
07/02/2013					0.36				<0.080							280		3.10	560								
07/10/2014										0.16							0.020 B		570								
07/07/2015										<0.040							<0.050		2,100								
07/06/2016										<0.040							0.059		51								
07/11/2017										0.11							<0.020		<38								
07/18/2018										<0.12							<0.020		110								
07/09/2019										<0.12							<0.020		<32								

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Dissolved Manganese
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987				16.2				<0.02	10.5		374	5875	30.4	68					154	1920.5	<10	994		290	
06/04/1987				16.9				<0.02	21.5		328	6360	31.2	74.4					<10	<200	<10			4330	
09/03/1987				7.62				<0.02	35.2		236	7970	24.4	46.9					<10	<200	<10				
12/03/1987				7.21				0.02	8.88		224	1100	38.2	5.07											
03/03/1988				11.2				<0.02	10.5		280	2800	27.6	64.7											
04/07/1988				10.9				0.13	13.7		270	1900	26.2	59.2					<10	<200	<10				
08/10/1988				15.2				<0.02	13.3		153	5930	34.8	58.8					<10	<200	<10				
11/15/1988				15.2				<0.02	21.7		283	153	<10	66					<10	<200	<10				
01/26/1989				13.9				<0.02	18.6		305	399	17	51.8											
04/27/1989				12.3				<0.02	9.5		303	1720	26.7	48					<10	<200	<10				
07/27/1989				68.4				<0.02	15.3		315	2020	32.8	57.6					<10	<200	<10				
10/26/1989				11.2				<0.02	19.3		332	1150	37.4	57					<10	<200	<10				
01/25/1990				17.3				<0.02	15.4		288	1740	36.4	65.6					<10	<200	<10				
05/03/1990				13.1				0.03	19.3		257	214	27.9	55					<10	<200	<10				
09/20/1990				8.34				<0.02	13.7		367	804	23.3	96.8					<10	<200	<10				
12/11/1990				13.4				<0.02	<6		292	684	30.9	66.1					<10	<200	<10				
01/29/1991				14.2				<0.02	18		283	863	26.1	69.1					<10	<200	<10				
05/01/1991				13.8				0.03	10.8		286	1170	23.6	68.3					<10	<200	<10				
10/08/1991				12.5				0.41	14.9		361		25.7	77.4					<10	<200	<10				
07/08/1992			<1					0.22		2.74				124			<500								
12/18/1992			<1					0.096						67			1,000	28,000							
06/30/1993			0.16				<0.02							53			1,200								
12/28/1993			<0.2				0.02							58			<1000								
06/22/1994			0.13				0.03							45			1,400								
07/06/1995	<0.25		0.38		<0.25	<0.25	<0.02							49			2,800								
07/09/1996	<0.25	<1	<0.1		<0.25	<0.25	<0.02							47			2,400								
07/11/1997			<0.1				<0.14							32.5			<260								
06/24/1998			<0.1				<0.14							59.9		0.5	3,300								
06/08/1999			<0.1				<0.14							80			<1000								
07/17/2000			<0.02				<0.08							77.7		0.55	2,900								
01/30/2001			<0.02				<0.08							80.8		<0.12	3,000								
07/10/2001			<0.02				0.30							51		<0.14	2,200								
08/06/2002			<0.020				<0.18							70		0.15	3,000								
07/23/2003			0.041				<0.13							57		0.38	3,600								
07/14/2004			<0.030				<0.13							47.9		0.36	3,500								
07/20/2005			<0.030				<0.10							40		0.15	5300M								
07/19/2006			<0.023				<0.13							48		0.12	4000 Q								
07/09/2007			<0.021				<0.19							160		0.14	3900 Q								
07/23/2008			0.094				<0.12							180		0.17	2,600								
7/23/2008 Duplicate			0.19				0.35							180		0.15	2,800								
07/06/2009			0.052				<0.12		220					92		0.13	4,600								
7/6/2009 Duplicate			0.6				<0.12							94		0.12	3,400								
07/15/2010			<0.050				<0.30 V							120		0.05	6,400								
07/25/2011			<0.022				<0.18							86		0.42	3,900								
7/25/2011 Duplicate			<0.022				<0.18							89		0.42	4,200								

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Dissolved Manganese
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/23/2012			<0.060				<0.18							62											
07/09/2012			<0.030				<0.030							59		0.45 B	3,900								
7/9/2012 Duplicate			<0.030				<0.030							65		0.40 B	4,800								
07/05/2013			<0.040				0.082							71		0.11	4,900								
7/5/2013 Duplicate			<0.040				<0.080							73		0.040	4,600								
01/24/2014				5									14				3,600					1,110		3,460
1/24/2014 Duplicate				5.1									14				4,300					1,130		3,510
07/10/2014				5.8				0.14					16		<0.016 Y		3,500					1,030		2,570 M
01/16/2015				5									13				2,200					1,140		2,510
1/16/2015 Duplicate				5.4									13				2,500					1,100		2,500
07/09/2015				7.9				<0.040					10		<0.050		3,300					944		3,050
7/09/2015 Duplicate				8				<0.040					10		<0.050		3,100					985		3,030
01/14/2016				6.3									11				1,000					876		2,150
1/14/2016 Duplicate				6.2									11				950					911		2,150
07/12/2016				7.3				<0.040					12		0.19		950					1,070		2,390
7/12/2016 Duplicate				6.5				<0.040					11		0.18		970					1,070		2,390
01/19/2017				7.6									15				1,500					981		1,970
1/19/2017 Duplicate				7.2									15				1,400					974		1,950
07/18/2017				9.4				<0.040					9.6		<0.020		1,700					1,030		3,050
7/18/2017 Duplicate				8.7				0.056					10		<0.020		1,800					1,040		3,080
01/11/2018				6.1									9.4				640					1,520		2,790
1/11/2018 Duplicate				6.1									9.4				660					1,530		2,840
07/18/2018				7				<0.12					9.6		<0.020		1,600					1,350		3,550
7/18/2018 Duplicate				6.3				<0.12					11		0.024		1,300					1,330		3,340
01/24/2019				6.9									8.4				1,100					1,460		3,240
1/24/2019 Duplicate				7									8.7				910					1,300		3,240
07/15/2019				7				<0.12					7.2		<0.020		870					1,370		3,000
7/15/2019 Duplicate				7.1				<0.12					7.3		<0.020		820					1,390		3,870

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	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)	(ug/L)
07/08/1992			<1				0.191	0.279	37			<500	6680
12/18/1992			<1				0.427		3.57			600	6680
06/29/1993			<0.1			0.37			3			<1000	
12/28/1993			<0.2			0.36			<2			<1000	
06/22/1994			0.16			0.42			<2			<1000	
07/06/1995	<0.25		0.3	<0.25	<0.25	0.33			<2			<250	
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25	0.43			<2			<250	
07/11/1997			<0.1			0.36			2.34			<0.27	
06/24/1998			<0.1			0.35			1.05		<0.2	<250	
06/08/1999			<0.1			0.37			1.16			<100	
07/17/2000			<0.02			0.28			1.85		<0.16	<500	
01/30/2001			<0.02			0.33			1.15		<0.12	<500	
07/10/2001			<0.020			0.37			1.2		<0.14	<500	
08/06/2002			<0.020			1.3			9.7		<0.070	<500	
07/23/2003			<0.011			0.38			3.2		<0.070	<28	
07/14/2004			<0.030			0.750			4.46		<0.11	<27 Q	
07/14/2004			<0.030			0.750			3.42		<0.11	110 Q	
07/20/2005			<0.030			0.610			2.1		<0.090	<27	
7/20/2005 Duplicate			<0.030			0.540			2.2		<0.090	<27	
07/19/2006			<0.023			0.910			2.6		<0.060	<520	
07/09/2007			<0.021			0.420			1.5		<0.080	<26	
07/23/2008			<0.080			0.670			8.8		<0.050	83	
07/06/2009			<0.030			0.280			4.3		<0.040	<27	
07/15/2010			<0.050			0.810			2.5		<0.040	47	
07/20/2011			<0.022			0.510			6.3		<0.030	190	
01/23/2012			<0.060			0.370			3				
07/06/2012			<0.030			0.420			3.5		<0.016	98	
07/05/2013			<0.040			0.380			6.2		<0.016	81	
07/08/2014							0.5			<0.016		<27	
07/07/2015							0.58			<0.050		<27	
07/07/2016							0.6			0.051		<34	
07/17/2017							0.62			<0.020		52	
07/11/2018							0.56			<0.020		<32	
07/15/2019							0.51			<0.020		<33	

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Dissolved Manganese
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987				7.62				2.32	<5		404	2192	23.6	71.9					48.7	936.5	<10	275		<100	
06/04/1987				4.19				2.17	10.2		300	1430	<10	49.8					<10	<200	<10			160	
09/03/1987				5.23				3.04	26.1		253	500	21.8	30.2					<10	<200	<10				
12/03/1987				2.45				2.24	8.31		222	470	26.4	21.7											
03/03/1988				4.55				1.16	<6		267	624	16.2	45.2											
04/07/1988				4.04				1.55	9.97		224	592	14.9	42.9					<10	<200	<10				
08/10/1988				3.87				1.09	19.8		153	3680	31.8	64.1					<10	<200	<10				
11/15/1988				2.54				1.42	6.62		403	424	<10	58					<10	<200	<10				
01/26/1989				4.27				1.55	<6		263	521	<10	45.7											
04/27/1989				12.3				2.14	<6		303	838	14.3	67					<10	<200	<10				
07/27/1989				18.8				2.37	<6		372	1050	18	61.5					<10	<200	<10				
10/26/1989				2.42				0.21	<6		205	340	14.1	22.8					<10	<200	<10				
01/25/1990				3.75				1.35	<6		255	690	16.8	69.4					<10	<200	<10				
05/03/1990				3.54				4.02	<6		268	158	20	60					<10	<200	<10				
09/21/1990				3.87				5.14	6.34		253	366	20.2	54.6					<10	<200	<10				
12/11/1990								6.36																	
12/12/1990				11.8					7.87		325	257	23.9	62.8					<10	<200	<10				
01/30/1991				6.35				8.04	7.2		338		30.6	66.7					<10	<200	<10				
05/01/1991				3.1				7.38	<6		313	606	27	50					<10	<200	<10				
10/08/1991				2.65				2.91	<5		240	670	20.2	26.8					<10	<200	<10				
06/18/1992			<1					2.67		0.736				31.4			<500								
12/17/1992			<1					2.3						32.2			<500	17,500							
06/30/1993			0.1				1.78							31			<1000								
12/28/1993			<0.2				1.89							26			<1000								
06/21/1994			<0.1				0.99							20			<1000								
07/05/1995	<0.25		<0.1		<0.25	<0.25	1.18							25			<250								
07/09/1996	<0.25	<1	<0.1		<0.25	<0.25	0.46							47			<250								
07/11/1997			<0.1				0.52							277			<250								
06/24/1998			<0.1				2.38							38.1		<0.2	<250								
06/08/1999			<0.1				2.56							30.7			<100								
07/18/2000			<0.02				1.43							40.7		0.16	<500								
01/30/2001			<0.02				0.99							39.2		<0.12	<500								
07/11/2001			<0.02				1.6							49		<0.14	<500								
08/06/2002			<0.020				1.2							60		<0.070	<500								
07/22/2003			0.021				1.2							55		<0.070	<30								
07/13/2004			<0.030				1.17							58.9		<0.11	<27								
07/19/2005			<0.030				0.49		220					62		<0.090	130								
07/19/2006			<0.023				0.62							85		<0.060	<520								
07/09/2007			<0.021				0.79							56		<0.080	<27								
07/23/2008			<0.080				0.91							70		<0.050	99								
07/07/2009			<0.030				0.78							58		<0.040	<27								
07/14/2010			<0.050				1.4							64		<0.040	340								
07/19/2011			<0.022				4.4							53		<0.030	90								
07/09/2012			<0.030				1.7							60		<0.016	190								
07/01/2013			<0.040				0.5							54		<0.016	480								
7/1/2013 Duplicate			<0.040				0.49							54		<0.016	490								
01/24/2014				1.1									13				300						<5.0		22.8
07/08/2014				2.4				0.67					16		<0.016		<26						<10		49.1
01/16/2015				2									13				270						323		188
07/06/2015				1.8				1.6					14		<0.050		200						<10		76.5
01/12/2016				1.7									14				59						<10		106
07/05/2016				1.1				1.4					15		0.096		<34						<10		79.7
01/16/2017				2.1									13				270						<59		485
07/17/2017				2.4				0.93					21		<0.020		48						<59		84.2
01/10/2018				1.6									13				<34						<59		385
07/11/2018				1.1				1.6					15		<0.020		<31						<59		151
01/22/2019				1.4									11				<32						<59		415
07/09/2019				2.1				0.35					13		<0.020		<34						<59		1520

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Dissolved Iron	Dissolved Manganese	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
06/18/1992			<1				9.28	1.35	159			<500					
12/17/1992			<1				10.3		140			<500	63,000				
06/29/1993			<0.1			11.3			126			<1000					
12/28/1993			0.22			8.14			108			<1000					
06/21/1994			<0.1			7.43			102			<1000					
07/06/1995	<0.25		0.28	<0.25	<0.25	6.25			105			<250					
07/08/1996	<0.25	<1	<0.1	<0.25	<0.25	7.7			89			<250					
07/11/1997			<0.1			5.5			83.6			<260					
06/23/1998			<0.1			3.97			100		<0.2	<250					
06/08/1999			<0.1			3.25			107			<100					
07/17/2000			<0.02			3.675			103.5		<0.16	<500					
01/30/2001			<0.02			5.30			106		<0.12	<500					
07/10/2001			<0.02			8.40			94		<0.14	<500					
08/05/2002			<0.020			8.50			110		<0.070	<500					
07/22/2003			0.05			8.20			94		0.08	29					
07/13/2004			<0.030			7.08			76		<0.11	<27					
07/19/2005			<0.030			3.60			93		<0.090	<27					
07/19/2006			<0.023			8.70			150		<0.060	<540					
07/09/2007			<0.021			8.40			150		<0.080	<26					
07/23/2008			<0.080			9.10			120		<0.050	88					
07/06/2009			<0.030			9.50			140		<0.040	<27					
07/14/2010			<0.050			8.200			150		<0.040	<26					
07/18/2011			<0.022			4.80			160		<0.030	<27					
01/23/2012			<0.060			1.90			91								
07/09/2012			<0.030			2.00			81		0.020 B	300					
07/01/2013			<0.040			5.80			310		<0.016	<26					
01/24/2014												<27		<5.0	<0.50	26	1.2
07/07/2014							6.8			<0.016		<27		<10	<1.6	31	2.2
01/12/2015												<27		<10	<1.6	31	1.1
07/06/2015							6.5			<0.050		<27		<10	<1.6	25	1.8
01/12/2016												<26		50.4	<1.6	<1.0	1.6
07/05/2016							6.1			0.093		<33		<10	<1.6	25	1.8
01/16/2017												<34		<59	<2.2	26	1.8
07/11/2017							6.3			<0.020		35 B		<59	<2.2	22	1.6
01/10/2018												<33		<59	<2.2	23	1.1
07/10/2018							5.9			0.13		<33		<59	<2.2	23	0.48
01/22/2019												<31		<59	<2.2	24	1.1
07/08/2019							5.1			<0.020		<32		<59	<2.2	26	2

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

Sampled	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Dissolved Iron	Dissolved Manganese	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
06/22/1992			<1					0.825	4.46	77.4			<500					
12/19/1992			<1					1.48		146			<500	83300				
06/30/1993			<0.1				1.38			80			<1000					
12/27/1993			<0.2				5.01			200			<1000					
04/25/1994			<0.1				2.36			167								
06/22/1994			<0.1				2.84			152			<1000					
10/04/1994			0.2				5.590			132								
03/10/1995			<0.1				7.22			184								
07/06/1995	<0.25		0.3	<0.25	<0.25		6.66			163			<250					
09/13/1995			<0.1				4.59			96								
03/20/1996			0.1				4.65			133								
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25		4.87			83			<250					
09/25/1996			<0.1				4.37			101								
07/11/1997			<0.1				<0.14			75.5			<270					
01/02/1998			<0.1				4.41			211								
06/24/1998			<0.1				3.57			150		<0.2	<250					
01/26/1999			<0.1				4.97			135		<0.2						
06/09/1999			<0.1				3.045			89.4			<100					
01/11/2000			<0.1				1.37			106		0.26						
07/18/2000			<0.02				4.05			119		<0.16	<500					
01/30/2001			<0.02				1.24			135		<0.12	<500					
07/10/2001			<0.02				7.9			95		<0.14	<500					
01/15/2002			0.096				2.6			94								
08/06/2002			<0.020				6.9			84		<0.070	<500					
01/14/2003			<0.070				3.5			210								
07/23/2003			<0.011				4.7			82		0.11	<27					
01/21/2004			<0.03				1.1			130								
01/21/2004			<0.03				0.90			120								
07/14/2004			<0.030				2.42			57.1		<0.11	36 J,Q					
01/19/2005			<0.030				4.9			150								
07/21/2005			<0.030				2.1			76		0.11	67					
01/17/2006			<0.023				1.36			40.3								
07/18/2006			<0.023				1.6			78		0.07	<510					
01/23/2007			<0.023				1.7			36								
1/23/2007 Duplicate			<0.023				1.6			35								
07/09/2007			<0.021				1.9			180		<0.080	<31					
01/28/2008			<0.021				2.3 Q			77								
07/24/2008			<0.080				1.2			75		0.05	83					
01/20/2009			<0.080				2.1			210								
07/06/2009			0.23				<0.12			630		<0.040	<27					
01/18/2010			<0.030				1			85								
07/13/2010			<0.050				1.7			220		0.04	29					
01/25/2011			<0.050				0.51			60								
07/19/2011			<0.022				1.0			50		0.060	42					
01/17/2012			<0.17				0.77			88								
07/06/2012			<0.030				1.00			540		<0.016	34					
01/08/2013			<0.030				1.30			120								
07/10/2013			<0.040				1.10			56		<0.016	46					
01/22/2014								1.6					<27		<5.0	11.7	12	1.6
07/16/2014								1.2			<0.016		58		<10	51.6	20	1.2
01/19/2015								0.67					<27		43.2	77.5	8.2	1.1
07/08/2015								1.3			<0.050		51		38.5 M	43.7	21	2.1
01/14/2016								1					<27		<10	19.4	9.4	2.5
07/11/2016								0.99			0.095		<33		128	40.7	16	3.1
01/23/2017								0.89					<34		<59	14.1	12	3.9
07/20/2017								0.66 Y			<0.020		49 B		<59	84.7	19	3.2
01/09/2018								1.7					<33		<59	19.9	12	2.1
07/16/2018								4.4			<0.020		<32		<59	<2.2	19 M	0.67
01/22/2019								0.66					<32		<59	10.4	9.2	1.1
07/16/2019								1.9			<0.020		<34		180	8.1	42	2.3

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

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

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	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987				4.51				5.51	<5		574	1684	30.5	128				32.6	1356.5	<10	239	<100
06/04/1987				2.22				4.46	30		443	1670	<10	123				<10	<200	<10		<100
09/03/1987				6.5				3.76	30.1		434	820	18.3	127				<10	<200	<10		
12/03/1987				2.05				4.69	<5		413	2260	32.2	127								
03/03/1988				3.78				6.34	8.74		439	972	22.7	128								
04/07/1988				2.93				6.19	<6		429	1540	21.2	101				<10	<200	<10		
08/10/1988				2.99				5.34	5.7		338	4660	32.2	109				<10	<200	<10		
11/15/1988				2.85				5.96	<5		473	70	<10	115				<10	<200	<10		
01/26/1989				1.71				5.37	<6		469	458	<10	118								
04/27/1989				3.42				5.52	<6		439	2600	22.5	112				<10	<200	<10		
07/27/1989				64.6				5.7	<6		596	2910	23.5	137				<10	<200	<10		
10/26/1989				2.54				5.57	<6		470	1,190	29.2	104				<10	<200	<10		
01/25/1990				1.74				5.31	<6		418	1,800	24.3	87.7				<10	<200	<10		
05/03/1990				4.92				4.46	<5		389	553	22.5	95				<10	<200	<10		
09/21/1990				2.12				5.33	<5		425	912	23.2	107				<10	<200	<10		
12/11/1990								6.07														
12/12/1990				12.4					<6		497	664	21.3	116				<10	253	<10		
01/30/1991				2.86				6.62	<6		463	621	23.8	116				<10	249	<10		
05/01/1991				8.06				6.3	<5		463	1,460	24.7	115				<10	212	<10		
06/18/1991								2														
10/08/1991				1.78				6.47	<6		490	1,320	22.4	114				<10	<200	<10		
06/24/1992								6.04	6	1.96				114		<500		<1	<200	<10		
12/18/1992			<1					5.78						94.7		<500	41,200					
06/29/1993			<0.1				5.76							110		<1000						
12/28/1993			<0.2				4.68							113		<1000						
06/21/1994			<0.1				4.18							112		<1000						
07/06/1995	<0.25		0.4		<0.25	<0.25	4.51							117		<250						
07/08/1996	<0.25	<1	<0.1		<0.25	<0.25	4.98							120		<250						
07/11/1997			<0.1				2.44							186		<260						
06/23/1998			<0.1				1.76							241	<0.2	<250						
06/07/1999			<0.1				2.88							125		<100						
07/17/2000			<0.02				3.63							112	<0.16	<500						
01/30/2001			<0.02				3.88							122	<0.12	<500						
07/10/2001			<0.02				3.8							110	<0.14	<500						
08/05/2002			<0.020				4.0							130	<0.070	<500						
07/22/2003			0.026				5.4							130	<0.070	<29						
07/12/2004			<0.030				5.12		220					208	<0.11	<28						
07/19/2005			<0.030				5.5							83	<0.090	<27						
07/18/2006			<0.023				5.1							100	<0.060	<740						
07/09/2007			<0.021				4.4							130	<0.080	<29						
07/22/2008			0.12				4.8							210	<0.050	75						
07/06/2009			<0.030				5.1							170	<0.040	<27						
07/13/2010			<0.050				5.9							170	<0.040	<27						
07/18/2011			<0.022				5.3							160	<0.030	<27 M						
07/09/2012			<0.030				5.3							110	<0.016	<27						
07/01/2013			<0.040				4.8							170	<0.016	<26						

Note:
WDNR letter dated March 18, 2014 concurred with TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Calcium	Magnesium	Dissolved Manganese	Potassium
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987						5.8				8.8	<5		762	1168	31.6	175					188.5	2220	<10	479		<100				
06/04/1987						5.26				11.8	11.6		605	14900	36.8	162					<10	<200	<10			<100				
09/03/1987						3.93				9.27	16		552	12100	24.1	177					<10	<200	<10							
12/03/1987						4.1				7.95	<6		449	2080	35.9	159														
03/03/1988						2.33				10.1	15.4		490	880	31	164														
04/07/1988						4.06				10.3	<5		4.85	6650	25.3	141					<10	<200	<10							
08/10/1988						4.84				12.6	6.88		322	22200	39.9	121					<10	<200	<10							
11/15/1988						4.12				11.1	10		519	519	<10	131					<10	<200	<10							
01/26/1989						2.59				8.12	<5		471	2880	<10	136														
04/27/1989						2.69				8.03	<6		476	5860	27.2	134					<10	<200	<10							
07/27/1989						36.2				9.78	<6		680	4480	27.4	170					<10	<200	<10							
10/26/1989						2.33				7.28	<6		5.49	2460	29.6	157					<10	<200	<10							
01/25/1990						3.45				5.91	<6		525	2,890	25	180					<10	<200	<10							
05/03/1990						3.35				9.75	<6		626	1,750	28.8	186					<10	<200	<10							
09/21/1990						2.57				11	<5		621	3,570	29	178					<10	<200	<10							
12/11/1990										11.5																				
12/12/1990						5.94					<5		615	2,040	29.3	190					<10	<200	<10							
01/30/1991						5.44				11.1	<6		543	1,280	29.6	198					<10	<200	<10							
05/01/1991						3.95				11	<6		460	5,170	31.4	137					<10	<200	<10							
10/08/1991						2.86				13.5	<6		648	7,340	25.9	158					<10	<200	<10							
10/29/1991			94.5	94.5								1.04			32.6	170				75,400	0	<200					71800	17900		12500
12/22/1991			99.5	99.5								1.33			33	126				60,600		<200					55400	14100		9980
06/16/1992										5.8		4.29				101			1,600		<1	<200								
12/18/1992					<1					10.4						125			<500	58,500										
06/29/1993					0.53				7.86							126			<1000											
12/28/1993					<0.2				11.5							155			<1000											
06/21/1994					<0.1				6.27							128			<1000											
07/06/1995	<0.25				0.17		<0.25	<0.25	6.03							106			<250											
07/08/1996	<0.25	<1			<0.1		<0.25	<0.25	0.84							28			<250											
07/11/1997					<0.1				5.44							173			<260											
06/24/1998					<0.1				4.13							221		<0.2	<250											
06/07/1999					<0.1				3.24							155			<100											
07/18/2000					<0.02				4.74							122		0.26	<500											
01/30/2001					<0.02				3.39							127		1.2	<500											
07/10/2001					<0.02				220							860		<0.14	<500											
08/05/2002					<0.020				7.2							120		<0.070	<500											
07/22/2003					0.034				6.3							84		<0.070	<28											
07/12/2004					<0.030				6.66							92.5		<0.11	29 J											
07/19/2005					<0.030				6.4							180		<0.090	<28											
07/19/2006					<0.023				5.7							110		<0.060	<520											
07/09/2007					<0.021				6.4							120		<0.080	<33											
07/23/2008					<0.080				6.9							160		<0.050	83											
07/06/2009					<0.030				6.4							110		<0.040	<26											
07/13/2010					<0.050				6.3							190		<0.040	<28											
07/18/2011					<0.022				<0.18							110		0.060	2,000											
01/23/2012					0.12				6.7							240														
1/23/2012 Duplicate					0.11				6.7							250														
07/09/2012					<0.030				6.1							280		0.070 B	27											
07/01/2013					<0.040				4.6							190		0.140	<27											
01/24/2014						1.4									28				26 Y						<5.0				<0.50	
07/08/2014						4.5				5.1					24		<0.016		<27						<10				<1.6	
01/12/2015						1.5									24				30						12.3				1.8	
07/06/2015						2.5				4.5					20		<0.050		<26						<10				<1.6	
01/12/2016						2.1									22				<27						<10				<1.6	
07/05/2016						1.4				5.4					21		0.094		<33						<10				<1.6	
01/16/2017						1.8									25				<33						<59				<2.2	
07/10/2017						2.7				5.4					21		<0.020		39 B						<59				<2.2	
01/10/2018						1.3									28				<33						<59				<2.2	
07/10/2018						0.71				4.7					21		<0.020		<34						<59				<2.2	
01/22/2019						1.6									20				<31						<59				<2.2	
07/08/2019						2.8				3.7					18		<0.020		<32						607				123	

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W17

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
07/24/2003	<0.011		<0.13	44		0.09	1,600				
07/13/2004	<0.030		<0.13	48.6		<0.11	13,000 Y				
01/20/2005	<0.030		0.31 J	51							
1/20/2005 Duplicate	<0.030		0.30 J	52							
07/20/2005	<0.030		0.77	380		<0.090	1,800				
07/18/2006	<0.023		0.19	200		0.11	1,500				
01/23/2007	<0.023		<0.13	21							
01/23/2007 Duplicate	<0.023		<0.13	23							
07/09/2007	<0.021		0.62	220		0.09	570				
01/28/2008	<0.021		<0.19	32							
07/23/2008	<0.080		0.32	66		0.06	260 M,Y				
07/06/2009	0.2		<0.12	370		<0.040	1,000				
7/6/2009 Duplicate	0.24		<0.12	280		<0.040	<27				
01/18/2010	<0.030		<0.12	30							
07/15/2010	<0.050		<0.30 V	67		0.26	8,800				
01/24/2011	0.069		<0.060	19							
07/19/2011	0.042		0.68	36		0.27	4,600				
01/23/2012	<0.060		<0.18	29							
07/06/2012	0.050		0.036	82		0.12 B	7,300				
7/6/2012 Duplicate	0.092		0.062	81		0.13 B	2,600				
01/07/2013	<0.030		<0.040	27							
07/02/2013	<0.040		0.16	51		0.05	330				
01/22/2014		0.11					760	489	601	3.5	2.9
07/16/2014		0.12			<0.016		2,100	407	2,250	2.3	3.5
01/15/2015		0.16					1,100	262	550	2.2	4.0
1/15/2015 Duplicate		0.16					2,300	250	565	2.1	2.4
07/09/2015		<0.040			<0.050		1,800	366	1,160	5.6	6.6
01/14/2016		<0.040					1,500	305	467	2.2	7.0
1/14/2016 Duplicate		<0.040					3,400	599	827	2.5	7.1
07/07/2016		<0.040			0.052		1,400	850	1,410	2.7	87.0
01/16/2017		0.099					650	250	310	5.0	4.5
07/17/2017		0.070			0.050		710	184	1,440	3.6	4.7
01/11/2018		<0.040					420	332	422	3.1	3.6
07/11/2018		0.310			0.032		2,400	<59	6.5	32	1.4
01/24/2019		<0.12					580	895	391	3.3	3.4
07/11/2019		1.9			<0.020		390	<59	241	10	1.9

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Total Sulfate	Total Organic Carbon	Dissolved Iron	Dissolved Manganese
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)
02/25/1992							<0.02		52.4			1,000					
07/08/1992			<1				<0.02	4.02	131			<500					
09/17/1992			<1				<0.02	1.6	50.5			<500	21,100				
12/17/1992			<1				0.05		52.7			1,000	22,800				
03/23/1993			0.14			<0.02			52			2,100	21,800				
06/29/1993			<0.1			0.04			43			<1000					
12/28/1993			<0.2			<0.02			69			1,000					
06/22/1994			<0.1			<0.02			45			<1000					
07/05/1995	<0.25		0.22	<0.25	<0.25	<0.02			39			1,900					
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25	<0.02			28			940					
07/11/1997			<0.1			<0.14			40.7			<260					
06/24/1998			<0.1			<0.14			37.1		<0.2	250					
06/08/1999			<0.1			1.26			23.3			<100					
07/18/2000			<0.02			2.01			34.2		0.27	<500					
01/31/2001			<0.02			0.380			10.8		<0.12	<500					
07/11/2001			<0.020			2.1			25		<0.14	<500					
08/06/2002			<0.020			3.9			29		<0.070	<500					
07/23/2003			<0.011			2.7			45		0.09	<28					
07/12/2004			<0.030			1.840			22.2		<0.11	<27					
07/18/2005			<0.030			2.1			120		<0.090Y	62					
07/18/2006			<0.023			3.0			92		<0.060	<510					
07/09/2007			<0.021			1.2			42		<0.080	<27					
07/23/2008			<0.080			3.0			64		<0.050	66					
07/07/2009			<0.030			1.9			140		<0.040	<26					
07/13/2010			<0.050			2.8			86		<0.040	<27					
07/19/2011			<0.022			<0.18			200		<0.030	330					
01/17/2012			<0.17			0.60			72								
07/19/2012			<0.030			0.45			50		<0.016	38					
07/02/2013			<0.040			1.20			270		<0.016	<27					
07/10/2014							0.92			<0.016		<27					
07/07/2015							0.69			<0.050		<27					
07/06/2016							0.60			<0.020		<34					
07/11/2017							0.15 M			<0.020		34 B		8.9	1	<59	<2.2
01/10/2018												<33		22	0.96	<59	<2.2
07/11/2018							0.84			<0.020		<34		20	<0.40	<59	<2.2
01/23/2019												<32		18	1	<59 M,Y	<2.2
07/08/2019							0.47			<0.020		<32		6.8	<0.40	<59	5

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W19

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
06/24/92				388							
12/18/92				270							
06/30/93				87							
12/28/93				154							
04/25/94				164							
06/21/94				53							
10/04/94				48							
03/10/95				235							
07/06/95				238							
09/13/95				68							
03/20/96				43							
07/10/96				140							
09/25/96				188							
07/11/97				221							
12/31/97				1220							
06/01/1998				648							
07/18/2000	<0.02		3.66	1,610		1	41,000				
07/11/2001	<0.020		4.1	530		0.65	19,000				
01/15/2002	<0.020		3.3	2000							
08/06/2002	<0.020		4.6	630		0.47	37,000				
01/14/2003	<0.070		3.9	400							
07/22/2003	0.046		4.4	260		1.3	16,000				
01/20/2004	0.13 J		4.7	390							
07/13/2004	0.074 J		4.26	653		1.6	12,000 Q				
01/20/2005	<0.030		3.70	720							
07/20/2005	<0.030		3.90	520		0.58	1,100				
01/17/2006	<0.023		4.53	387							
07/20/2006	<0.023		5.30	610		0.47	30000 Q				
01/23/2007	<0.023		3.80	1500							
07/11/2007	<0.021		3.30	880		0.98	5700 Q				
7/11/2007 Duplicate	<0.021		3.00	740		1.3	10000 Q				
01/28/2008	<0.021		3.8 Q	560							
07/24/2008	0.12		4.30	520		0.68	2,100				
01/20/2009	<0.080		5.70	580							
07/07/2009	0.085		3.70	660		1.1	5,900				
01/18/2010	0.088		4.3 V	660							
07/14/2010	<0.050		4.30	440		0.35	330				
01/25/2011	<0.050		2.50	300							
07/19/2011	<0.022		1.50	600		1.4	360				
01/17/2012	0.24		3.10	500							
07/06/2012	<0.030		3.20	430		0.56 B	430				
01/04/2013	<0.030		2.40	450							
07/01/2013	0.047		1.10	370		1.6	330				
01/21/2014		2.10									
07/08/2014		1.50			0.020 B		410				
01/15/2015		1.50									
07/08/2015		2.10			<0.050		430				
01/14/2016		3.10									
07/07/2016		1.60			0.074		310				
01/16/2017		3.40									
07/17/2017		1.60			<0.020		47	16	4	665	82.6
01/10/2018		4.10					190	19	2.4	172	340
07/11/2018		2.90			0.027		170	19	3.2	1210	469
01/23/2019		1.80					<34	20	2.3	<59	80.1

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron	Calcium	Magnesium	Potassium
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987						11				4.02	<5		390	2935	21.8	82.6					64	991	<10	473	360			
06/04/1987						13.8				1.72	<5		293	5760	32	52.7					<10	<200	<10		310			
09/03/1987						3.62				1.74	12.6		243	2480	20.2	53.2					<10	<200	<10					
12/03/1987						3.89				4.59	<6		302	313	33.5	68.4												
03/03/1988						5.6				2.44	<6		331	1560	19.6	69.9												
04/07/1988						2.93				2.76	<6		296	1650	28.9	83					<10	<200	<10					
08/10/1988						5.92				3.25	8.46		127	4420	59.3	71					<10	<200	<10					
11/15/1988						3.86				4.83	10.6		313	170	<10	81					<10	<200	<10					
01/26/1989						2.34				3.91	24.6		392	556	<10	89.8												
04/27/1989						3.54				5.95	8.07		415	2090	19.5	115					<10	<200	<10					
07/27/1989						30				6.45	<6		460	1420	21	101					<10	<200	<10					
10/26/1989						3.74				0.23	<6		161	324	15.8	14.2					<10	<200	<10					
01/25/1990						3.49				2.92	<6		190	450	24.2	33.7					<10	<200	<10					
05/03/1990						4.01				1.2	<6		248	236	14.2	53					<10	<200	<10					
09/21/1990						2.93				0.53	<6		141	106	18.8	30.4					<10	<200	<10					
12/11/1990						0				0.58																		
12/12/1990						5.34					<6		198	175	15.1	31.8					<10	<200	<10					
01/30/1991						4.46				0.83	<6		204	98	13.6	40.6					<10	<200	<10					
05/01/1991						6.74				1.11	<6		175	648	11.2	32.8					<10	<200	<10					
10/08/1991						2.76				0.88	<5		253	388	15.5	56.6					<10	<200	<10					
10/29/1991			94.5	94.5								0.392			16.2	54.8				32400	0	<200				33100	9780	<5000
12/22/1991			85.8	85.8								0.267			13.8	35.2				25000		<200				24300	7430	<5000
06/24/1992										2.5		3.18				40.4			<500		<1							
12/18/1992					<1					2.3						59			<500	36500								
06/29/1993					<0.1				1.83							62			<1000									
12/28/1993					<0.2				2.4							74			<1000									
06/22/1994					0.31				1.3							43			<1000									
07/06/1995	<0.25				0.16		<0.25	<0.25	0.78							44			<250									
07/08/1996	<0.25	<1			<0.1		<0.25	<0.25	4.36							88			<250									
07/11/1997					<0.1				2.58							79.1			<260									
06/23/1998					<0.1				2.93							130		<0.2	<250									
06/07/1999					<0.1				1.69							110			<100									
07/17/2000					<0.02				1.51							87.7		<0.16	<500									
01/30/2001					<0.02				1.34							48.0		5.8	<500									
07/10/2001					<0.02				220							99.0		<0.14	<500									
08/05/2002					<0.020				3.1							91.0		<0.070	<500									
07/22/2003					0.015				4.0							68.0		<0.070	<27									
07/13/2004					<0.030				2.77							110		<0.11	29 J									
07/19/2005					<0.030				3.10							110		<0.090	<27									
07/18/2006					<0.023				1.60							130		<0.060	<710									
07/09/2007					<0.021				4.10							120		<0.080	<27									
07/22/2008					<0.080				3.60							190		<0.050	76									
07/07/2009					<0.030				2.3Y							180		<0.040	<27									
07/14/2010					<0.050				2.70							110		<0.040	<27									
07/18/2011					<0.022				2.40							130		0.050	<28									
07/09/2012					<0.030				2.30							75		<0.016	<27									
07/01/2013					<0.040				2.20							130		<0.016	<26									
07/08/2014										1.9							<0.016		<27									
07/07/2015										1.6 H							<0.050		<27									
07/05/2016										1.3							0.092		<35									
07/10/2017										1.8							<0.020		36 B									
07/10/2018										1.4							0.340		<34									
07/09/2019										2.3							<0.020		<34									

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Dissolved Iron	Dissolved Manganese	Sodium	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
02/25/1992								<0.02		386			3000					
06/14/1992								0.14		299			550					
09/17/1992			<1					0.675	0.632	19.6			<500			11300		
12/18/1992			<1					0.081		313			3000			131000		
03/24/1993			<0.1				0.02			307			9900			124000		
06/30/1993			<0.1				0.73			25			<1000					
12/28/1993			0.22				0.06			356			2000					
04/25/1994			0.24				0.13			247								
06/22/1994			<0.1				0.05			180			<1000					
10/04/1994			<0.1				0.15			240								
01/05/1995			<0.1				0.27			248								
03/09/1995			0.13				0.21			196								
07/06/1995	<0.25		0.49	<0.25	<0.25		0.02			167			2000					
09/13/1995			<0.1				0.22			119								
12/18/1995			0.13				<0.1			183								
03/21/1996			0.12				<0.1			138								
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25		0.28			95			1800					
09/25/1996			<0.1				<0.08			100								
01/21/1997			<0.1				0.15			118								
07/11/1997			<0.1				0.2			184			2800					
01/02/1998			<0.1				<0.14			392								
06/24/1998			<0.1				0.16			428		0.3	2900					
01/26/1999			<0.1				<0.14			432.5		1.05						
08/07/2002			<0.020				<0.18			230		0.23	51,000					
01/14/2003			<0.070				<0.18			140								
01/20/2005			<0.030				0.47			150								
07/21/2005			<0.030				<0.10			280		0.36	230,000					
01/17/2006			<0.023				<0.10			441								
07/20/2006			<0.023				<0.13			640		0.27	38000 Q					
01/23/2007			<0.023				0.2			510								
07/11/2007			<0.021				0.41 Y			170		0.33	1900 Q					
01/28/2008			<0.021				<0.019 Q			150 Q								
07/24/2008			<0.080				<0.12			160		0.51	3,000					
01/21/2009			<0.080				0.76			91								
07/07/2009			<0.030				0.26		220	450		0.2	2,400					
01/19/2010			<0.030				1			68								
07/15/2010			<0.050				2.9			160		0.1	2,400					
7/15/2010 Duplicate			<0.050				2.8			160		0.27	5,100					
01/25/2011			<0.050				1.9			82								
07/19/2011			<0.022				0.55			40		0.70	54					
01/18/2012			<0.17				0.51			190								
07/10/2012			<0.030				1.7			270		0.21	3,800					
01/07/2013			<0.030				0.26			240								
1/7/2013 Duplicate			<0.030				0.11			220								
07/08/2013			<0.040				0.43			230		0.62	4,300					
01/22/2014								0.33					3,700	<5.0	2600		13	9.3
07/08/2014								0.56			<0.016		3,400	13.8	768		21	11
01/15/2015								0.32					2,900	22.2	614		11	6.7
07/09/2015								0.51			<0.050		2,900	<10	790		16	9
01/13/2016								0.57					2,100	23.5	965		18	10
07/11/2016								0.6			0.12		1,700	21.1	1010		14	8.9

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Dissolved Iron	Dissolved Manganese	Sodium	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/19/2017								<0.24					5,200	392	3310		11	11
1/19/2017 Duplicate								<0.040					5,800	<59	3250		8.1	10
07/18/2017								0.25			<0.020		1,400	191	1370 M		11	9.9
01/15/2018								0.079					4,000	82.2	3590		8.3	12
1/15/2018 Duplicate								<0.040					4,100	86.7	3660		7.4	14
07/18/2018								0.41			<0.020		2,600	<59	2940		15	6.1
01/28/2019								0.6					1,500	<59	1980		26	9.1
1/28/2019 Duplicate								0.47					1,500	<59	1990		22	8.3
07/18/2019								6			<0.020		<34	<59	6.7		32	4.6 Y

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 (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
02/19/1992							7.64		75.8			<610	
07/29/1992							4.66		60.4			<500	
09/17/1992		<1					6.04	1.96	34.6			<500	31900
12/17/1992		<1					6.52		39.3			<500	33700
03/23/1993		<0.1				4.37			77			<500	40200
06/28/1993		0.2				4.2			71			<1000	
12/28/1993		0.26				8.07			136			<1000	
04/25/1994		0.2				1.14			90				
06/21/1994		0.17				2.69			84			1600	
10/04/1994		<0.1				6.02			89				
03/10/1995		0.23				0.58			68				
07/05/1995	<0.25	0.71	<0.25	<0.25		2.58			91			850	
09/13/1995		<0.1				1.14			25				
03/21/1996		0.11				4.55			54				
07/11/1997		<0.1				5.5			156			<260	
01/02/1998		<0.1				3.4			81.2				
06/23/1998		<0.1				2.61			110		<0.2	<250	
01/26/1999		<0.1				4.5			144		<0.2		
06/09/1999		0.2				4.9			187			<100	
01/11/2000		<0.1				4.75			207		<0.16		
07/18/2000		<0.02				5.74			186		<0.16	<500	
01/30/2001		<0.02				5.18			308		144	<500	
07/10/2001		<0.02				4.4			160		<0.14	<500	
01/15/2002		<0.020				5.0			240				
08/05/2002		<0.020				8.4			140		<0.070	<500	
01/14/2003		<0.070				10.0			110				
07/22/2003		0.023				5.6			150		<0.070	<27	
01/20/2004		0.042				3.2			230				
07/13/2004		<0.030				7.70			40.7		<0.11	27 J	
01/19/2005		<0.030				6.30			88				
07/21/2005		<0.030				3.60			120		<0.090	340	
7/21/2005 Duplicate		<0.030				3.8			120		<0.090	380	
07/18/2006		<0.023				2.20			82		<0.060	<530	
7/18/2006 Duplicate		<0.023				2.1			89		<0.060	<530	
01/23/2007		<0.023				2.80			200				
07/11/2007		<0.021				4.8			220		0.14	65	
01/29/2008		<0.021				4.5 Q			190 Q				
07/23/2008		<0.080				7.30			71		0.05	92 Q	
01/20/2009		<0.080				12.00			250M				
07/06/2009		<0.030				6.60			120		<0.04	86	
01/18/2010		<0.030				5.40			150				
07/13/2010		<0.050				4.90			180		0.06	630	
7/13/2010 Duplicate		<0.050				5.10			180		0.04	570	
01/24/2011		<0.050				4.80			46				
07/19/2011		<0.022				4.30			16		0.090	100	
7/19/2011 Duplicate		<0.022				4.30			15		0.160	130	
01/23/2012		0.09				3.90			110				
07/06/2012		<0.030				4.10			150		0.060 B	230	
01/04/2013		<0.030				2.60			60				
07/05/2013		<0.040				4.90			28		0.030	54 MY	
01/21/2014							4.5						
07/09/2014							5.8			<0.016		<27	
01/19/2015							5.2						
07/08/2015							5.4			<0.050		45	
01/14/2016							6						
07/06/2016							5.9			0.050		<33	
01/16/2017							4.2						
07/11/2017							6.8			<0.020		47 B	
01/09/2018							3.9		220				
07/11/2018							5.8			<0.020		<33	
01/21/2019							5.4						
07/08/2019							6.2			<0.020		<32	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Dissolved Iron	Dissolved Manganese	Sodium	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
02/25/1992								0.034		103			1,000					
06/14/1992								0.093		130			<500					
09/17/1992			<1					0.031	1.96	166			650			62,800		
12/18/1992			<1					0.337		139			1,000			66,000		
03/24/1993			0.18				0.12			136			4,800			52,800		
06/30/1993			0.19				0.12			133			<1000					
12/27/1993			<0.2				0.16			155			1,000					
04/25/1994			0.11				<0.02			212								
06/22/1994			<0.1				<0.02			181			1,200					
10/04/1994			<0.1				<0.02			178								
03/09/1995			0.12				0.05			169								
07/06/1995	<0.25		0.24	<0.25	<0.25		0.04			143			4,400					
09/13/1995			<0.1				<0.02			245								
03/21/1996			0.16				<0.04			118								
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25		0.81			488			900					
09/25/1996			<0.1				<0.08			359								
07/11/1997			<0.1				0.25			207			<260					
01/02/1998			<0.1				<0.14			287								
06/24/1998			<0.1				<0.14			349		0.2	3,800					
01/27/1999			<0.1				<0.14			691		<0.2						
06/09/1999			<0.1				<0.14			677			<1000					
01/11/2000			<0.1				<0.14			193.5		0.355						
07/18/2000			<0.02				<0.08			375		<0.16	4,800					
01/31/2001			<0.02				<0.08			254		<0.12	2,600					
07/11/2001			<0.020				0.95			420		<0.14	1,700					
01/15/2002			<0.020				<0.18			56								
08/06/2002			<0.020				<0.18			250		<0.070	1,300					
01/14/2003			<0.070				<0.18			340								
07/24/2003			0.042				0.27			300		0.19	410					
01/21/2004			0.045				<0.13			260								
07/13/2004			<0.030				0.60			230		<0.11	230					
01/20/2005			<0.030				0.78			390								
07/20/2005			<0.030				0.84			320		<0.090	850					
01/17/2006			<0.023				0.36			373								
07/20/2006			<0.023				0.68			400		0.10	1600 Q					
7/20/2006 Duplicate			<0.023				0.53			420		0.10	1800 Q					
01/23/2007			<0.023				0.14			1100								
07/09/2007			<0.021				<0.19			460		0.18	320					
7/9/2007 Duplicate			<0.021				<0.19			530		0.21	380					
01/28/2008			<0.021				<0.19			350								
01/28/2008 Duplicate			<0.021				<0.19			410								
07/24/2008			<0.080				<0.12			270		0.06	1,000					
01/20/2009			<0.080				0.310			67								
07/07/2009			<0.030				0.120			22		0.14	<27					
7/7/2009 Duplicate			<0.030				0.140			22		0.13	<27					

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Dissolved Iron	Dissolved Manganese	Sodium	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/18/2010			<0.030				<0.12			100								
07/15/2010			<0.050				2.20			370		<0.040	3,400					
01/25/2011			<0.050				3.10			560								
07/20/2011			<0.022				4.70			700		0.090	960					
7/20/2011 Duplicate			<0.022				4.70			660		0.090	970					
01/23/2012			<0.060				3.80			620								
07/10/2012			<0.030				3.10			770		<0.016	360					
01/04/2013			<0.030				1.20			590								
07/02/2013			<0.040				1.30			780		<0.016	49					
01/22/2014								3.5	220				50	<5.0	599		26	2.6
07/07/2014								2.5			<0.016		<26	<10	259		29	3.9
01/15/2015								3.7					<27	<10	138		42	3.3
07/09/2015								1.4			<0.050		1,100	<10	263		44	5.2 Y
01/13/2016								3.1					60	<10	265		36	2.3
07/07/2016								2.7			0.042		<33	<10	221		40	3.7
01/16/2017								1.7					420	<59	76.1		28	3.7
07/17/2017								1.8			<0.020		51	<59	270		16	3.2
01/10/2018								1.4					<33	<59	88.3		20	3.2
07/12/2018								1.9			<0.020		<33 Q	<59	<2.2		31	1.2
01/24/2019								3.5					<33	<59	21		33	3.5
07/15/2019								0.54			<0.020		760	164	4270		18	8.1

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Dissolved Iron	Dissolved Manganese	Sulfate	Total Organic Carbon
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
06/24/1992							0.926	103			500		<1				
12/17/1992			<1				0.324	140			2,000	58,000					
06/30/1993			<0.1			2.62		162			<1000						
12/28/1993			0.26			0.39		129			1,000						
06/22/1994			<0.1			0.36		116			<1000						
07/06/1995	<0.25		0.47	<0.25	<0.25	1.41		123			3,800						
07/09/1996	<2.5	<10	<0.1	<2.5	<2.5	0.16		173			6,500						
07/11/1997			<0.1			0.32		214			<250						
06/24/1998			<0.1			0.64		187		1	4,900						
06/08/1999			0.25			0.42		359			2,800						
07/18/2000			<0.02			0.295		341.5		0.87	3,850						
01/31/2001			<0.02			0.180		232		0.37	5,300						
07/11/2001			0.12			1.1		520		0.17	<500						
08/06/2002			<0.020			0.81		710		0.31	2,700						
07/22/2003			0.35			0.55		240		0.53	2,800						
07/13/2004			0.44			1.32		189		0.41	3,500						
07/19/2005			0.55			0.72		190		0.4	4,600						
07/19/2006			0.50			0.43		140		0.24	4,100						
07/09/2007			0.64			0.46		260		0.27	3600 Q						
07/23/2008			1.30			0.39		330		0.17	3,200						
07/07/2009			0.54			0.44		280		0.21	3,600						
07/14/2010			0.59			0.94		260		0.12	14,000						
7/14/2010 Duplicate			0.57			1.2 Y		260		0.1	17,000						
07/25/2011			0.15			0.22		46		0.33	7,900						
07/10/2012			0.25			0.051		61		0.15	9,900						
07/05/2013			0.26			1.400		110		0.06	9,000						
01/24/2014											4,900			4,480	11,800	18	8.9
07/09/2014							0.2		<0.016		4,400			5,450	18,800	22 M	17
01/16/2015											6,200			5,290	13,700	22	9.3
07/09/2015							0.23		<0.050		9,200			9,120	20,100	40	22
01/13/2016											7,000			7,020	17,800	38	18
07/11/2016							0.17		0.17		4,300			8,550	19600 M	47	23
01/19/2017											9,800			7,550	22,100	26	18
07/18/2017							<0.040		<0.020		6,300			4,610	15,900	69	52
7/18/2017 Duplicate							<0.040		<0.020		7,200			4,860	16,500	86	47
01/11/2018											6,000			6,000	16,400	25	21
07/18/2018							0.13		<0.020		4,600			5,040	15,300	43	33
01/24/2019											3,000			4,360	16,000	31	14
07/18/2019							<0.12		<0.020		3,200			3,490	10,300	20	44
7/18/2019 Duplicate							<0.12		<0.020		3,000			3,440	9,900	21	46

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Dissolved Manganese
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987				7.31				<0.02	<5		485	8170	36.8	102					30.45	2285	<10	965		<100	
06/04/1987				4.6				0.29	5.08		385	4290	37.3	88.4					<10	<200	<10			370	
09/03/1987				29.5				0.14	29		343	1650	20.2	102					<10	<200	<10				
12/03/1987				5.64				0.15	<6		351	768	42.7	14											
03/03/1988				12				<0.02	9.52		471	2070	43.5	129											
04/07/1988				8.47				<0.02	<5		386	3300	47.2	123					<10	<200	<10				
08/10/1988				4.63				0.23	8.32		206	4310	53	107					<10	<200	<10				
11/15/1988				4.84				0.18	10.5		402	1970	19.6	100					<10	<200	<10				
01/26/1989				4.66				<0.02	9.28		423	567	<10	121											
04/27/1989				7.26				0.04	7.68		392	1020	35.2	115					<10	<200	<10				
07/27/1989				35.6				0.19	<6		388	2450	38.5	94.3					<10	<200	<10				
10/26/1989				2.77				0.2	<6		365	1050	46.5	85.5					<10	<200	<10				
01/25/1990				4.05				0.11	<6		466	1130	33.6	93.5					<10	<200	<10				
05/03/1990				12				<0.02	<6		384	540	37.1	96					<10	<200	<10				
09/20/1990				4.55				<0.02	<5		317	918	33.6	89.9					<10	<200	<10				
12/11/1990				5.62				0.19	<6		324	528	33.8	79					<10	<200	<10				
01/29/1991				4.41				<0.02	<6		293	963	31.6	76.1					<10	<200	<10				
05/01/1991				7.05				0.08	7.56		281	1400	30.1	74.8					<10	<200	<10				
10/08/1991				4.99				<0.02	<5		329	840	23.3	73.4					<10	<200	<10				
07/08/1992			<1					0.115		0.918							<500								
12/17/1992			<1					0.051						98.3			<500	49,100							
06/29/1993			0.17				<0.02							88			<1000								
12/28/1993			<0.2				0.13							158			<1000								
06/22/1994			<0.1				0.03							130			<1000								
07/05/1995	<0.25		0.14		<0.25	<0.25	0.25							99			<250								
07/09/1996	<0.25	<1	<0.1		<0.25	<0.25	0.1							65			<250								
07/11/1997			<0.1				<0.14							75.5			<270								
06/24/1998			<0.1				0.19							57.2		<0.2	<250								
06/08/1999			<0.1				0.24							53.6			<100								
07/18/2000			<0.02				0.21							50.9		0.24	<500								
01/30/2001			<0.02				0.160							47.4		3.9	<500								
07/10/2001			<0.02				0.84							32		<0.14	<500								
08/06/2002			<0.020				0.80							28		<0.070	<500								
07/23/2003			<0.011				0.77							26		<0.070	110								
07/12/2004			<0.030				0.75							59.2		<0.11	28 J								
07/18/2005			<0.030				1.10							70		<0.090	<27								
07/18/2006			<0.023				2.10							110		<0.060	<520								
07/09/2007			<0.021				1.70							87		<0.080	<31								
07/23/2008			<0.080				2.10							53		<0.050	320								
07/07/2009			<0.030				1.10							78		<0.040	<26								
07/13/2010			<0.050				0.33		220					190		<0.040	<27								
07/18/2011			<0.022				0.50							150		<0.030	90								
01/17/2012			<0.060				0.31							180											
07/19/2012			<0.030				<0.030							56		<0.016	31								
07/02/2013			<0.040				0.64							270		<0.016	<27								
01/24/2014				0.73									20				49						<5.0		23.2
07/10/2014				0.58				0.99					15		<0.016		<26						15.7		13.3
01/16/2015				1.2									17				<27						54.1		<1.6
07/07/2015				1.8				1.2 H					16		<0.050		<27						<10		<0.050
01/12/2016				1.3									16				<27						<10		<1.6
07/06/2016				1				1.2					15		<0.020		<33						<10		<1.6
01/16/2017				1.8									15				<34						<59		<2.2
07/11/2017				1.5				0.81					10		<0.020		34 B						<59		<2.2
01/10/2018				1.3									13				<33						<59		<2.2
07/11/2018				<0.40				1.2					11		<0.020		<32						<59		<2.2
01/23/2019				1									13				<32						70.5		31.1
07/08/2019				1				2.5					16		<0.020		<34						<59		<2.2

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W29-W29R

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Solids, Total Dissolved	Solids, Total Suspended	Sulfate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron	Dissolved Iron	Dissolved Manganese
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
01/08/1987				18.9				0.53	9.8	446	3785	41.1	87.4					50	676	<10	310	2820		
06/04/1987				26.3				0.23	16.8	436	2740	46.1	117					<10	<200	<10		4060		
09/03/1987				27.7				0.95	12.2	308	765	21.3	70.9					<10	<200	<10				
12/03/1987				22.8				0.16	20.2	452	2220	48.1	118											
03/03/1988				16				0.42	13.7	327	1470	34	66.8											
04/07/1988				5.46				2.8	<5	154	1050	30.2	13.2					<10	<200	<10				
08/10/1988				25.2				0.39	20.3	224	5150	55.7	95.6					<10	<200	<10				
11/15/1988				34.3				0.19	27.9	366	1620	48.9	99.5					<10	<200	<10				
01/26/1989				25.3				0.23	28.7	374	361	<10	86.2											
04/27/1989				27.8				<0.02	32.9	408	2060	32.4	81					<10	<200	<10				
07/27/1989				69.8				0.07	16.6	502	1120	50	116					<10	<200	<10				
10/26/1989				15.8				0.34	15.3	395	372	40.2	87.4					<10	<200	<10				
01/25/1990				11.6				0.32	<6	218	758	25.7	45.3					<10	<200	<10				
05/03/1990				4.36				2.07	<6	159	170	11.9	17					<10	<200	<10				
09/21/1990				5.23				0.69	<5	158	376	16.3	23					<10	<200	<10				
12/11/1990				14.3				0.26	<6	192	297	34	19.8					<10	<200	<10				
01/30/1991				5.26				0.28	<6	165	291	13.1	15.1					<10	<200	<10				
05/01/1991				13.1				0.31	<6	190	500	14.4	17.4					<10	<200	<10				
06/25/1992								0.027					21.1			<500		<1						
12/18/1992			<1					0.231					25.9			<500	22,100							
06/30/1993			0.15				0.44						43			<1000								
12/28/1993			<0.2				0.1						24			<1000								
06/22/1994			<0.1				0.6						157			<1000								
07/05/1995	<0.25		0.97		<0.25	<0.25	<0.02						35			<250								
07/09/1996	<0.25	<1	<0.1		<0.25	<0.25	0.08						60			690								
07/11/1997			<0.1				0.15						30.4			<260								
06/23/1998			<0.1				0.14						95.2		<0.2	470								
06/08/1999			<0.1				0.66						354			<100								
07/18/2000			<0.02				1.04						98.7		0.21	<500								
01/30/2001			<0.02				0.290						34.1		<0.12	<500								
07/11/2001			<0.020				0.31						53		<0.14	<500								
08/07/2002			<0.020				<0.18						28		<0.070	<500								
07/24/2003			<0.011				0.24						31		<0.070	<28								
07/13/2004			<0.030				0.400 J						43.1		<0.11	<27								
07/20/2005			<0.030				0.55						13		<0.090	150								
07/19/2006			<0.023				<0.13						30		<0.060	<540								
07/09/2007			<0.021				0.62						18		<0.080	<27								
07/24/2008			<0.080				0.32						79		<0.050	85								
7/24/2008 Duplicate			<0.080				0.35						75		<0.050	86								
07/07/2009			<0.030				<0.12						46		<0.040	<26								
07/14/2010			<0.050				0.57						67		<0.040	31								
07/19/2011			<0.022				<0.18						89		<0.030	1300 M								
07/09/2012			0.073				0.15		220				120		<0.016	1,000								
07/02/2013			<0.040				0.56						70		<0.016	<26								
07/07/2014								0.22						<0.016		140								
07/07/2015								0.29 H						<0.050		1,300								
07/11/2016								1.3						<0.020 M		600								
7/11/2016 Duplicate								1.1						<0.020		600								
07/17/2017				4.9				0.27				20		<0.020		350							<59	35.5
01/11/2018				3.1								6				<33							<59	25.1
07/19/2018				2.5				0.13				13		0.022		<32							<59	6.2
7/19/2018 Duplicate				1.8				0.14				13		<0.020		<33							<59	5.5
01/23/2019				2.8								17				42							<59	166
07/16/2019				11				0.47				14		<0.020		<34							<59	103

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

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	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron
	(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)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
01/08/1987				34.1				0.03	<5		168	2210	45.9	15.5					48.4	712	<10	361	30500
06/04/1987				23.9				<0.02	<5		221	1730	53	17.6					<10	<200	<10		49500
09/03/1987				14.8				<0.02	<5		191	245	36.2	12.5					<10	<200	<10		
12/03/1987				14.5				<0.02	<6		175	182	57.8	14									
03/03/1988				11.5				<0.02	8.62		89	416	32.6	7.19									
04/07/1988				9.31				<0.02	<5		124	87	32.4	8.11					<10	<200	<10		
08/10/1988				21.1				<0.02	<6		21	1410	58.8	13.8					<10	<200	<10		
11/15/1988				15.7				<0.02	<6		181	342	56.4	15					<10	<200	<10		
01/26/1989				9.35				<0.02	<6		196	91	75.5	12.1									
04/27/1989				16.7				<0.02	<6		193	373	9.8	20					<10	<200	<10		
07/27/1989				42.8				<0.02	<6		224	171	1.5	16.9					<10	<200	<10		
10/26/1989				8				<0.02	<6		136	90	25.1	8.55					<10	<200	<10		
01/25/1990				9.81				<0.02	7.64		111	140	5.7	10.6					<10	<200	<10		
05/03/1990				10.6				<0.02	<6		140	18	4	11					<10	<200	<10		
09/21/1990				13.9				<0.02	<5		81	41	<1	6.1					<10	<200	<10		
12/11/1990				14.1				<0.02	<6		130	30	<1	5.8					<10	<200	<10		
01/30/1991				15.1				<0.02	<6		108	24	<1	4					<10	<200	<10		
05/01/1991				29.2				<0.02	<6		477	109	46.4	72.9					<10	269	<10		
10/08/1991				15.1				<0.02	<5		183	86	<1	5.96					<10	<200	<10		
06/24/1992								<0.02		2.8				27.2			<500		2.64				
12/19/1992			1.96					0.052						25.9			<500	21,800					
06/29/1993			1.8				0.07							56			<1000						
12/28/1993			1.31				0.08							7			<1000						
06/22/1994			1.21				0.04							11			<1000						
07/05/1995	<0.25		1.46		<0.25	<0.25	0.03							12			<250						
07/08/1996	<0.25	<1	1.72		<0.25	<0.25	<0.06							38			<250						
07/11/1997			0.9				0.15							9.4			<270						
06/23/1998			0.92				<0.14							12.1		<0.2	<250						
06/07/1999			1.49				0.15							21.9			<100						
07/17/2000			1.02				<0.08							14.9		<0.16	<500						
01/30/2001			<0.02				<0.08							7.11		0.60	<500						
07/10/2001			1.1				<0.18							23		<0.14	<500						
08/06/2002			<0.020				<0.18							17		<0.070	<500						
07/24/2003			0.99				<0.13							8.5		0.19	<27						
07/13/2004			1.6				<0.13							35.6		<0.11	28 J						
07/20/2005			1.1				<0.10							8.5		<0.090	<27						
07/18/2006			1.2				<0.13							11		<0.060	<540						
07/09/2007			1.3				<0.19							14		<0.080	<33						
07/22/2008			1.4				<0.12							56		<0.050	77						
07/07/2009			1.4				<0.12							45		<0.040	<26						
07/14/2010			1.4				<0.30 V		220					27		<0.040	39						
07/18/2011			1				0.46							22		<0.030	<28						
07/09/2012			0.94				<0.030							14		<0.016	41						
07/01/2013			1.10				0.27 MY							65		<0.016	<26						
07/07/2014								0.13							<0.016		<27						
07/06/2015								<0.040							<0.050		<27						
07/05/2016								<0.040							0.092		<34						
07/10/2017								<0.040							<0.020		39 B						
07/10/2018								<0.12							<0.020		<34						
07/08/2019								<0.12							<0.020		<32						

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W33

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
08/07/2002	<0.020		0.98	630		3.4	100,000				
07/24/2003	0.018		1.3	370		10	86,000				
07/14/2004	<0.030		1.55	355		2.7	180,000 Q,M				
07/21/2005	<0.030		2	370		13	190,000				
01/23/2007	0.040		1	560							
07/11/2007	0.052		1.3	460		7.1	120,000 Q				
07/24/2008	0.200		1.5	440		12	28,000				
07/07/2009	<0.030		2	470		1.1	12,000				
01/19/2010	0.240		<2.4 V	440							
07/15/2010	0.075		<0.30 V	470		2.7	21,000				
01/25/2011	0.520		<0.30 V	410							
07/25/2011	0.350		0.23	57		3.7	3,800				
01/23/2012	0.230		0.93	170							
07/19/2012	0.073 M		<0.030	190		2.3	15000 M				
01/08/2013	0.150		<0.040	210							
07/08/2013	<0.040		0.23	110		4.3	17,000				
01/22/2014		0.17					26,000	3,140	2,750	20	8.6
07/07/2014		0.2			<0.016		26,000	1,810	2,030	17	11.0
01/15/2015		0.17					15,000	1,400	1,880	23	9.7
07/09/2015		0.37			<0.050		6,500	851	1360 M	12	7.0
01/14/2016		0.10					12,000	1,680	1,430	17	6.7
07/12/2016		0.15			0.21		4,800	1,600	1,500	13	6.4
01/19/2017		<0.040					9,400	2,560	1,510	20	21.0
07/18/2017		0.44			<0.020		3,500	693	1,850	12	9.3
01/11/2018		<0.040					14,000	1,160	1,720	15	9.5
07/19/2018		<0.12			<0.020		7,400	847	1,550	14	5.2
01/28/2019		<0.12					5,700	1,130	2,170	15	7.9
07/15/2019		2.1			<0.020		<34	<59	36.5	7.3	4.6

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

Sampled	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)
02/20/1992							<0.02		100			1200
08/03/1992							0.048		102			1000
09/17/1992			<1				0.055	2.93	48.7			650
09/13/1995			<0.1			2.31			136			
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25	0.21			120			1800
07/11/1997			<0.1			1.4			77			33000
01/02/1998			<0.1			1.33			94.2			
06/25/1998			<0.1			2.44			92.8		11.5	2400
01/27/1999			<0.1			2.8			95.1		23	
06/09/1999			0.11			2.755			96.05			<100
01/11/2000			<0.1			3.16			118		10.7	
07/18/2000			<0.02			2.88			133		4.45	1300
01/31/2001			0.250			3.27			107		6.9	<500
07/11/2001			<0.020			3.8			92		<0.14	<500
01/15/2002			0.260			3.6			110			
08/06/2002			<0.020			4			130		<0.070	<500
01/15/2003			<0.070			4.2			150			
07/22/2003			0.053			3.9			250		1.8	150
01/21/2004			<0.030			3.8			230			
07/14/2004			<0.030			4.17			190		0.49	430 Q
01/20/2005			<0.030			4.2			160			
07/21/2005			<0.030			3.6			160		0.91	230
01/18/2006			<0.023			3.420			163			
07/18/2006			<0.023			3.7			150		0.32	<520
01/23/2007			<0.023			4.7			200			
07/09/2007			<0.021			4.4			220		0.29	<28
7/9/2007 Duplicate			<0.021			4.5			220		0.32	<27 MY
01/29/2008			<0.021			5.6 Q			240			
01/29/2008 Duplicate			<0.021			5.6 Q			230			
07/23/2008			<0.080			<0.12			230		0.21	78
01/20/2009			<0.080			5.5			230			
1/20/2009 Duplicate			<0.080			5.6			220			
07/06/2009			<0.030			6.2			250		0.21	<27
01/18/2010			<0.030			6.6			290			
07/14/2010			<0.050			6.4			220		0.37	<27
01/24/2011			<0.050			5.7			210			
07/19/2011			0.042			5.2			180		0.58	<27
01/18/2012			<0.17			2.1			320			
07/09/2012			<0.030			5.2			210		0.86 B	<27
01/07/2013			<0.030			5.4			200			
07/02/2013			<0.040			5.2			200		1.5	<27
07/09/2014							5.4			<0.016		<26
07/07/2015							4.7			<0.050		<27
07/06/2016							5.4			0.049		<33
07/11/2017							5.7			<0.020		44 B
07/12/2018							6.7			<0.020		<33 Q
07/09/2019							5.8			<0.020		<33

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 (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
06/17/1992								0.461	5.36	193			<500		<1
12/18/1992			<1					0.905		195			75,000	96,200	
06/21/1994			<0.1				0.58			185			<1000		
03/10/1995			0.3				0.4			75					
09/13/1995			0.16				0.1			62					
12/18/1995			0.45				0.24			141					
03/20/1996			0.13				<0.1			69					
07/09/1996	<13	<50	0.11	<13	<13		0.08			170			95,000		
01/21/1997			<0.1				1			122					
07/11/1997			<0.1				1.24			163			160,000		
01/02/1998			<0.1				0.57			207					
06/24/1998			<0.1				0.6			189		2.2	45,000		
06/09/1999			0.36				2.78			155			27,000		
07/19/2000			<0.02				1.4			168		3.2	240,000		
07/11/2001			<0.020				1.8			200		1.0	34,000		
08/06/2002			<0.020				2.1			97		0.25	140,000		
01/15/2003			<0.070				3.6			310					
07/22/2003			0.053				2.3			180		1.10	28,000		
01/20/2004			0.037				3.900			320					
07/14/2004			<0.030				3.41			292		1.40	33,000 Q		
01/20/2005			<0.030				3.3			290					
07/20/2005			<0.030				4			210		0.18	1,300		
01/17/2006			<0.023				2.23			297					
07/19/2006			<0.023				2.7			140		0.29	16000 Q		
7/19/2006 Duplicate			<0.023				2.0			140		0.33	15000 Q		
01/23/2007			0.25				1.1			260					
07/11/2007			0.25				1.1			170		1.50	22000 Q		
01/28/2008			<0.021				2.4 Q			190					
07/24/2008			0.59				1.6			270		4.90	9,500		
01/21/2009			<0.080				2.4			370					
07/07/2009			0.17				3.7			320		0.71	11,000		
01/19/2010			0.24				1.3 V			360					
1/19/2010 Duplicate			0.18				1.6 V			350					
07/14/2010			0.51				0.54 V			52		5.40	13,000		
01/25/2011			0.59				<0.060			81					
1/25/2011 Duplicate			0.60				<0.060			78					
07/25/2011			0.067				0.36			61		5.30	6,100		
01/17/2012			0.97				<0.18			150					
1/17/2012 Duplicate			1.00				<0.18			150					
07/10/2012			1.10				1.1			230		1.10	3,600		
01/04/2013			0.65				0.63			240					
1/4/2013 Duplicate			0.71				0.64			230					
07/08/2013			1.40				0.22			360		2.00	4,000		
01/21/2014								0.21							
07/08/2014								0.33			0.030 B		8,600		
01/15/2015								0.22							
07/09/2015								2			<0.050		3,000		
01/14/2016								0.23							
07/07/2016								0.38			0.082		2,000		
01/19/2017								0.15							
07/17/2017								<0.040			0.058		980		
01/09/2018								<0.040							
07/12/2018								<0.12			0.062		2000 Q		
01/21/2019								<0.12							
1/21/2019 Duplicate								<0.12							

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W40-W40R

Date	Ammonia Nitrogen Total	Nitrate	Nitrate + Nitrite Nitrogen	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Total Sulfate	Total Organic Carbon	Dissolved Iron	Dissolved Manganese
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)
01/19/2010	<0.030		<1.2 V	290							
07/15/2010	<0.050		<0.30 V	360		7.9	250,000				
01/25/2011	<0.050		<0.30 V	210							
07/25/2011	0.048		0.38	160		3.8	130,000				
01/18/2012	<0.17		0.69	240							
07/19/2012	<0.030		<0.030	220		4.2	56,000				
01/07/2013	<0.030		0.13	210							
07/08/2013	<0.040		<0.080	690		2.5	280,000				
01/21/2014		<0.080									
07/08/2014		<0.080			<0.016		47,000				
01/15/2015		0.15									
07/09/2015		<0.040			<0.050		38,000				
01/19/2016		<0.040									
07/12/2016		<0.040			0.12		28,000				
01/19/2017		<0.040									
07/18/2017		<0.040			<0.020		250,000	10	43	3360	8080
01/15/2018		<0.040					360,000	8.1	72	2460	3210
07/19/2018		<0.12			<0.020		300,000	7.9 M	37	4540	5680
01/28/2019		<0.12					140,000	7.6	24	5050	12800
07/18/2019		<0.12			<0.020		31,000	16	8.8	109	6580 M

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Phosphorus, Phosphate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Total Sulfate	Total Organic Carbon	Dissolved Iron	Dissolved Manganese
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)
02/25/1992								0.759		80.6			141,000						
06/16/1992								0.345	5.11	246			500		<1				
09/17/1992			<1					0.543	2.55	168			900	67,800					
12/19/1992			<1					0.228		211			9,000	103,000					
03/24/1993			0.66				0.34			122			7,100	107,000					
06/30/1993			0.12				0.05			124			330,000						
12/28/1993			0.34				1.75			218			5,600						
04/25/1994			0.34				0.04			115									
06/21/1994			0.22				0.04			91			2,800						
10/04/1994			0.6				0.34			44									
03/10/1995			0.47				0.53			191									
07/06/1995	<0.25		0.85	<0.25	<0.25		0.9			132			5,500						
09/13/1995			0.57				0.29			100									
03/20/1996			0.54				<0.2			162									
07/09/1996	<2.5	<10	0.26	<2.5	<2.5		<0.02			137			13,000						
09/25/1996			0.2				0.74			164									
07/11/1997			0.3				3.76			146			10,000						
01/02/1998			0.26				0.75			323									
06/24/1998			0.22				0.52			281		0.4	5,200						
01/26/1999			0.15				0.35			318		0.4							
06/08/1999			0.57				0.5			414			5,900						
01/11/2000			0.5				0.213			250		0.75							
07/19/2000			0.290				0.55			248		0.22	11,000						
01/31/2001			0.360				<0.08			206		0.21	5,600						
07/11/2001			0.40				0.64			210		0.21	6,300						
01/15/2002			0.88				<0.18			110									
08/06/2002			<0.020				0.63			230		0.12	8,600						
01/14/2003			0.53				1.1			200									
07/22/2003			0.74				1.2			170		0.48	7,000						
01/20/2004			1.10				0.62			240									
07/13/2004			0.90				0.81			1080		0.52	8300 Y						
07/13/2004			0.98				1.28			255		0.43	9300 Y						
01/20/2005			1.00				1.60			220									
07/19/2005			1.20				1.70			230		0.44	8,300						
01/17/2006			0.98				0.89			187									
07/19/2006			0.89				0.54			190		0.48	6,600						
01/23/2007			0.80				0.46			190									
07/09/2007			0.67				0.70			130		0.38	5600 Q						
01/28/2008			0.59				1.6 Q			160									
07/24/2008			0.53				1.40			220		0.62	9,100						
01/21/2009			0.85				1.20			300									
1/21/2009 Duplicate			0.94				0.68			300									
07/07/2009			0.75				1.80			280		0.28	3,300						
01/19/2010			0.77				1.7 V			250									
07/14/2010			0.21				3.80			110		0.2	2,900						
01/25/2011			0.32				1.40			89									
07/20/2011			0.13				<0.18			25		0.34	2,500						
01/17/2012			0.60				<0.18			84									
07/10/2012			0.46				0.098			140		0.94	5,600						
01/04/2013			0.51				0.350			210									
07/05/2013			0.37				<0.080			190		0.27	11,000						
01/21/2014								0.22											
07/09/2014								0.20			<0.016		9,100						
01/15/2015								0.15											
07/08/2015								<0.040			<0.050		8,200						
01/14/2016								0.27											
07/12/2016								<0.040			0.15		2,500						
01/19/2017								0.20											
07/18/2017								0.14			<0.020		1,400			22	20	1380	14300
01/11/2018								<0.040					1,600			14	31	8200 M	12700 M
07/18/2018								0.15			<0.020		1,300			9.7	26	6930	14600
01/24/2019								<0.12					2,400			4.1	48	7940	17100
07/15/2019								0.36			<0.020		680			7.9	7.7	6070	13700

Updated: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W69

Date	Ammonia Nitrogen Total (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)
07/24/2003	0.095	0.77	120	23	61,000
01/21/2004	0.15 J	0.23 J	130		
07/14/2004	<0.030	1.25	96.7	35.0	76,000 Q
7/14/2004 Duplicate	<0.030	1.20	75.1	16.0	72,000 Q
01/20/2005	0.048 J	0.75	83		
07/23/2008	<0.080	0.92	150	7.4	8,300
01/21/2009	<0.080	1.30	140		
01/25/2011	0.23	0.98	59		
07/25/2011	0.059	0.28	35	56.8	7,900 MY
01/18/2012	<0.17	<0.18	71		
07/10/2012	0.18	0.44	81	<0.016	8,600 M
01/07/2013	0.26	0.054 M	44		
07/08/2013	<0.040	0.120	25	12.6	6,500

Note:
WDNR letter dated March 18, 2014 concurred with TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W71

Date	TPH as Mineral Spirits
	(ug/L)
07/01/2016	<34
07/10/2017	35 B
07/10/2018	<34
07/15/2019	<33

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W72

Date	TPH as Mineral Spirits
	(ug/L)
07/01/2016	<33
07/10/2017	<34
07/10/2018	<34
07/11/2019	<34

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W73

Date	TPH as Mineral Spirits	Nitrate Nitrogen	Total Sulfate	Total Organic Carbon	Dissolved Iron	Dissolved Manganese
	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)
07/01/2016	<34					
07/10/2017	39 B		17	10	<59	10.1
01/09/2018	<33		32	4.8	<59 M,Y	2.4 M,Y
07/10/2018	<31		22	1.5	<59	22.4
01/22/2019	<32		20	2.8	<59	51.4
07/11/2019	<34	4.4	19	3.9	118	70.2

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - W74

Date	TPH as Mineral Spirits
	(ug/L)
07/01/2016	<33
07/10/2017	36 B
07/10/2018	<34
07/11/2019	<33

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - FP2

Date	Nitrate Nitrogen (mg/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)	TPH as Mineral Spirits (ug/L)
01/24/2014		3.9	6.9	14,000	9,790	8,300
07/10/2014		6.3	10	12,100	8,340	5,900
01/12/2015		3.5	8.1	15,200	9,970	6,200
07/09/2015	<0.040	4.4	8.6	11,300	7,720	5,800
01/12/2016		2.5	7.9	12,200	7,000	3,700
07/06/2016		2.3	7.8	11,500	7330 M	3,000
01/16/2017		3.8	12	15600 M	7300 M	5,500
07/18/2017		3.3	9.4	16,400	9,430	3,900
01/11/2018		2.6	8.6	13,500	6,600	3,000
07/12/2018		2.9	7.3	16,800	9,500	2700 Q
01/22/2019		3	7.7	15,600	7,210	2,600
07/11/2019		6.2	8.2	15,900	8,370	1,200

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - PW17

Date	Nitrate Nitrogen (mg/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Mercury (ug/L)
01/24/2014		7.8	13	4,250 M	5,980 M	7,300	7,300
07/10/2014		16	6.7	3,910	3,150	3,500	3,500
7/10/2014 Duplicate		16	7.2	3,970	3,140	3,400	3,400
01/12/2015		16	8.3	2770	2680	5,500	
07/09/2015	0.26	14	6.9	5920	3630	3,600	
01/12/2016		13	7	8310	3730	1,800	
07/06/2016		15	5.9	5440	3030	800	
01/16/2017		21	6.6	221	1380	1300	
07/18/2017		12	7.4	3960	3790	2100	
01/11/2018		13	6.5	2520	2110	1400	
07/12/2018		13	5.2	3600	3630	1100 Q	
01/02/2019		9.3	7.3	2910	2810	2200	
07/11/2019		22	11	4840	3930	260	

Water Quality Indicators - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW5

Date	TPH as Mineral Spirits
	(ug/L)
07/11/2016	250
07/20/2017	92 B
07/16/2018	290
07/16/2019	<34

B2

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	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	<300		<300	<300	**500**	<300	**440**	**630**	**2100**	**340**	**1100**	**1200**	<300	<300	<300		**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**	
01/31/01	<30		<30	<30	<30	<30	<30	<30	<30	**41**	<30	<30	<30	<30	**79**		<30	<30	
07/09/01	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**280**	<150	
08/06/02	<150		<150	<150	**200**	**210**	<150	**330**	**190**	**440**	**340**	**730**	<150	**310**	<150		<150	**860**	
01/14/03	**80**		<30	**42**	**410**	<30	<30	<30	<30	**250**	**510**	<30	<30	<30	<30		**35**	<30	
07/22/03	**9.3**		<6	<6	**59**	**21**	<6	<6	<6	**70**	**72**	**94**	<6	<6	<6		**71**	**7**	
01/20/04	**15**		**9.2**	<6.0 J	**40**	**9.9 J**	**15**	<6.0	**21**	**81**	**93**	**120**	<6.0 J	<6.0	**8.0**		**97**	**22**	
07/13/04	<6.0		**17**	**11**	**28**	**7.5J**	**14**	**10**	<6.0	**18**	**7.7J**	**23**	<6.0	<6.0	<8.0		**33**	**37**	
01/19/05	<3.0		<3.0	<3.0	**4.4**	<3.0	<3.0	<3.0	**8.2**	**6**	**29**	**9.3**	<3.0	<3.0	<3.0		**7.9**	**7.7**	
07/21/05	<6.0V		<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	**22 V**	**14 V**	**62 V**	**19 V**	<6.0 V	<6.0 V	<6.0 V		**70 V**	<6.0 V	
01/17/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.6**	<3.0	
07/18/06	<60		<60	<60	**170**	**230**	**88**	**130**	**740**	**600**	**1800**	**690**	**65**	**62**	<60		**130**	**860**	
01/24/07	<3.0		<3.0	<3.0	**11**	**4.9**	<3.0	<3.0	<3.0	**7.7**	**100**	**11**	<3.0	<3.0	<3.0		**13**	<3.0	
07/11/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**18**	<3.0	
01/29/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**18**	<3.0	
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**22**	<3.0	

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**9.5**	<3.0	
07/06/09	**3.7**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**47**	<3.0	
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**20**	<3.0	
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**20**	<3.0	
01/24/11	**4.2**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**45**	<3.0	
07/19/11	**1.6**		<1.3	<1.2	<1.2	<0.95	<1.7	<1.4	<1.0	<1.0	<1.0	<1.6	<1.9	<0.88	<1.3		**11**	<0.56	
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.5**	<3.0	
07/06/12	**2.1**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**21**	<3.0	
01/04/13	**1.4**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**14**	<3.0	
07/05/13	**4.2**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**42**	<3.0	
07/07/14	**4.1**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**42**	<3.0	
07/07/15	**5.8**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**1.1**	<3.0	<3.0	<3.0		**60**	<3.0	
07/06/16	**2.5**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**31**	<3.0	
07/11/17	**2.2**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**27**	<3.0	
07/12/18	**3.8**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**40**	<3.0	
07/09/19	**0.94**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**11**	<3.0	

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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
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**		
01/15/03	**1500**		<1500	<1500	**3900**	<1500	**4500**	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**13000**	<1500	<1500
07/22/03	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**10000**	<1500	<1500
07/13/04	<600		<600	<600J	<600	<600	**1100**	<600	<600	<600	<600	<600	<600	<600	<800		**6600**	**810**	
01/21/04	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500 J	<1500 J	<1500	<1500	<1500J	<1500	<1500J		**15000**	<1500J	
01/20/05	**700 JV**		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**1700 V**	<600 V	<600 V	<600 V	<600 V		**9600 V**	**690 V**	
1/20/2005 Duplicate	**640 JV**		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**2200 V**	<600 V	<600 V	<600 V	<600 V		**8700 V**	**760 V**	
07/21/05	**670 V**		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**2500 V**	<600 V	<600 V	<600 V	<600 V		**9300V**	<600 V	
7/21/2005 Duplicate	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**920 V**	<600 V	<600 V	<600 V	<600 V		**8300V**	<600 V	

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
01/17/06	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V		**7800V**	<600 V	
1/17/2006 Duplicate	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**1200 V**	<600 V	<600 V	<600 V	<600 V		**8500V**	<600 V	
01/18/10	**140**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**31**	<3.0	<3.0	<3.0		**3200**	<3.0	
1/18/2010 Duplicate	**110**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**27**	<3.0	<3.0	<3.0		**2600**	<3.0	
07/15/10	**120 Y**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**<3.0**	<3.0	<3.0	<3.0		**2500**	<3.0	
01/25/11	**100**		<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11		**1500**	<4.9	
07/20/11	<110		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**970**	<0.49	
01/18/12	**81**		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		**1500**	<4.8	
07/09/12	**170**		<5.8	<5.3	<5.3	<4.3	<7.9	<6.3	<4.6	<4.5	<4.7	<7.4	<8.4	<4.0	<5.8		**2000**	<3.0	
7/9/2012 Duplicate	**190**		<5.7	<5.2	<5.2	<4.2	<7.7	<6.2	<4.5	<4.4	<4.6	<7.2	<8.2	<3.9	<5.7		**2100**	<3.0	
01/07/13	**160**		<56	<51	<51	<41	<76	<61	<44	<43	<45	<71	<81	<38	<56		**2800**	<24	
07/08/13	<110		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		**1700**	<49	
07/16/14	<220		<220	<200	<200	<170	<310	<240	<180	<180	<180	<290	<330	<160	<220		**3000**	<98	
07/08/15	**100**		<26	<6.3	<26	<9.4	<78	<21	<6.3	<21	<15	<21	<31	<14	<31		**1900**	<6.8	
07/07/16	**67**		<6.1	<26	<6.6	<10	<15	<20	<6.1	<7.7	<6.1	<8.7	<15	<7.1	<10		**1500**	<12	
7/7/2016 Duplicate	**57**		<6.1	<26	<6.6	<10	<15	<20	<6.1	<7.7	<6.1	<8.7	<15	<7.1	<10		**1400**	<12	
07/13/17	**49**		<6.1	<25	<6.6	<10	<15	<20	<6.1	<7.6	<6.1	<8.6	<15	<7.1	<10		**830**	<12	
7/13/2017 Duplicate	**39**		<6.2	<26	<6.7	<10	<15	<21	<6.2	<7.7	<6.2	<8.8	<15	<7.2	<10		**690**	<12	
07/12/18	**47**		<5.5	<5	<6.2	<4.8	<6.9	<5	<5.7	<4.8	<5	<5.5	<7.1	<5.2	<5.7		**750**	<6.2	
7/12/2018 Duplicate	**76**		<5.5	<5	<6.2	<4.8	<6.9	<5	<5.7	<4.8	<5	<5.5	<7.1	<5.2	<5.7		**1100**	<6.2	
07/11/19	**13**		<4.6	<4.2	<5.3	<4	<5.9	<4.2	<4.8	<4	<4.2	<4.6	<6.1	<4.4	<4.8		**280**	<5.3	
7/11/2019 Duplicate	**15**		<4.7	<4.3	<5.3	<4.1	<5.9	<4.3	<4.9	<4.1	<4.3	<4.7	<6.1	<4.5	<4.9		**260**	<5.3	

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W03A

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
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	

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W03A

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
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**		
01/19/10	**370 M**		<8.1	<8.8	<6.2	<12	<16 M	<9.4	<6.9	<8.9	<6.1	<6.8	<9.5	<11	<6.3 M		**3,700 M**	<3.2	
07/15/10	**75**		<45	<41	<41	<33	<61	<49	<36	<35	<37	<57	<65	<31	<45		**1,300**	<20	
01/24/11	**130**		<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11		**1,900**	<4.9	
07/20/11	**47**		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	**2.9**	<1.6	<0.78	<1.1		**640**	<0.49	
10/03/11																	**1,500**		
01/18/12	**33**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**530**	<3.0	
1/18/2012 Duplicate	**27**		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		**1,100**	<4.8	
04/03/12																	**390**		
07/10/12	**44**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**800**	<3.0	
01/07/13	<23		<23	<21	<21	<17	<32 M	<25	<18	<18	<19	<29	<34 M	<16	<23 Y		**320 M**	<10	
07/05/13	**29**		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		**540**	<12	
01/21/14	<31		<31	<28	<28	<23	<43 M	<34	<25	<24	<26	<40	<45	<22	<31		**580**	<14	
07/09/14	<28		<28	<26	<26	<21	<38	<31	<22	<22	<23	<36	<41	<19	<28		**450**	<12	
7/9/2014 Duplicate	<28		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		**390**	<12	
01/19/15	<26		<13	<3.1	<13	<4.6	<38	<10	<3.1	<10	<7.1	<10	<15	<6.9	<15		**200**	<3.3	
07/08/15	<26		<13	<3.1	<13	<4.6	<39	<10	<3.1	<10	<7.2	<10	<15	<7.0	<15		**380**	<3.4	
7/8/2015 Duplicate	**27**		<13	<3.1	<13	<4.6	<39	<10	<3.1	<10	<7.2	<10	<15	<7.0	<15		**550**	<3.4	
01/19/16	**26**		<13	<3.0	<13	<4.5	<38	<10	<3.0	<10	<7.1	<10	<15	<6.8	<15		**440**	<3.3	
07/07/16	**39**		<3.0	<13	<3.3	<5.1	<7.3	<10	<3.0	<3.8	<3.0	<4.3	<7.6	<3.5	<5.1		**780**	<6.1	
01/19/17	**17**		<3.0	<5.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**320**	<3.0	
07/17/17	**53**		<3.0	<13	<3.3	<5.1	<7.3	<10	<3.0	<3.8	<3.0	<4.3	<7.6	<3.5	<5.1		**680**	<6.1	
01/11/18	**20**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**340**	<3.0	
07/18/18	**34 Q**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**500**	<3.0	
01/24/19	**15**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**290**	<3.0	
07/11/19	**38**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0		**610**	<3.0	

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**25**	<3.0
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	**4.4**		**49**	<3
01/31/01	<3		**17**	<3	<3	<3	**3.0**	<3	<3	<3	<3	<3	<3	<3	<3		**18**	<3
07/11/01	**4.4**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**9.7**	<3.0
08/06/02	**5.7**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**43**	<3.0
07/24/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.6**	<3.0
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		**5.7**	<3.0
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.6**	<3.0
07/11/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4**	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	**31**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**250**	<3.0
07/18/11	**10**		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**120**	<0.49
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.9**	<3.0
07/01/13	**3.3**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**48**	<3.0
07/09/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**9.4**	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**8.5**	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2**	<3.0
07/13/17	**0.74**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**19**	<3.0
07/11/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7**	<3.0
07/09/19	**0.24**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**20**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W06R

Date	2,3,4,6-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	Pentachlorophenol	Phenol
07/24/03	<3000	<3000	<3000	**3,600**	<3000	<3000	<3000	<3000	**6,300**	**3,700**	<3000	<3000	<3000	<3000	**7,200**	<3000
07/23/08	**410**	<81	<89	<63	<120	<160	<95	<70	<90	<62	<69	<96	<110	<64	**5,100**	<32
7/23/2008 Duplicate	**420**	<82	<90	<64	<130	<170	<96	<71	<91	<63	<70	<97	<110	<65	**5,000**	<32
01/19/10	**1,800**	<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63	**15,000**	<32
07/14/10	**290**	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	**4,500**	<49
01/25/11	**490**	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	**5,300**	<49
1/25/2011 Duplicate	**490**	<110	<100	<100	<82	<150	<120	<87	<86	<90	<140	<160	<76	<110	**5,300**	<48
07/25/11	**490 M**	<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1	**3,900 M**	<0.49
01/18/12	**290**	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	**2,900**	<4.9
07/09/12	**120 M**	<5.8	<5.3	<5.3	<4.3	<7.9	<6.3	<4.6	<4.5	<4.7	<7.4	<8.4	<4.0	<5.8	**1,000 M**	<3.0
01/07/13	**750**	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	**9,000**	<49
07/08/13	**300**	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	**3,300**	<49
7/8/2013 Duplicate	**340**	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	**3,600**	<49
01/21/14	**580**	<120	<110	<110	<87	<160	<130	<93	<91	<96	<150	<170	<81	<120	**5,700**	<51
1/21/2014 Duplicate	**500**	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	**5,800**	<49
07/09/14	**120**	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	**1,500**	<49
01/19/15	**320**	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	**4,100**	<13
07/09/15	**230**	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	**3,200**	<13
7/9/2015 Duplicate	**170**	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	**2,300**	<13
01/19/16	**140**	<51	<12	<51	<18	<150	<40	<12	<40	<28	<40	<61	<27	<61	**1,700**	<13
1/19/2016 Duplicate	**100**	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	**1,300**	<13
07/12/16	**14**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**210**	<3.0
01/16/17	**370**	<24	<100	<26	<40	<58	<80	<24	<30	<24	<34	<60	<28	<40	**5,500**	<48
07/18/17	**12**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**170**	<3.0
01/11/18	**170**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**2,500**	<3.0
07/12/18	**8**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**97**	<3.0
01/24/19	**93**	<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12	**1,600**	<13
07/11/19	**150**	<11	<10	<13	<9.6	<14	<10	<12	<9.6	<10	<11	<14	<11	<12	**2,400**	<13

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

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2.) Bold Values indicate detections

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4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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**	
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	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
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
01/30/01	<3.0		**12**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/15/02	**5.4**		**11**	**6.5**	**25**	**15**	**11**	**14**	**53**	**49**	**62**	**38**	**10**	<3.0	**31**		**14**	**57**
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/14/03	<3.0		**5**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.7**	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/20/04	<3.0		<3.0 J	<3.0	<3.0 J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0 J
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		**6.4**	<3.0
01/19/05	<3.0		<3.0	<3.0	<3.0	<3.0 M	<3.0MY	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 M		<3.0	<3.0 M
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/17/06	**8.1**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.6**	<3.0
07/18/06	**45**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**18**	<3.0
01/23/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/28/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/25/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.1		<1.1	<1.0	<1.0	<0.82	<1.5 Q	<1.2	<0.87	<0.86	<0.90	<1.4	<1.6 Q	<0.76	<1.1		<1.1 Q	<0.48
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/04/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/22/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/15/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.8**	<3.0
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/13/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/16/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/22/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
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	**4.00**		<3.0	<3.0	<3.0	<3.0	**20.0**	<3.0	<3.0	<3.0	**3.90**	<3.0	<3.0	<3.0	<3.0		**7.00**	<3.0
07/18/00	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	**62**	<15	**59**		**33**	<15
01/30/01	<30		<30	<30	<30	<30	**67**	<30	<30	<30	<30	<30	<30	<30	**140**		<30	<30
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
08/06/02	**10**		**9.7**	**7.5**	**3.1**	<3.0	<3.0	<3.0	<3.0	**3.4**	**4.2**	**3.0**	<3.0	<3.0	**7.4**		**6.1**	<3.0
07/23/03	**150**		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		**140**	<60
07/12/04	<30		<30	<30	<30	<30	**95**	<30	<30	<30	<30	<30	**49**	<30	<40		**63**	<30
07/18/05	58 V		<30 V	<30 V	<30 V	<30 V	**<30 V**	<30 V	<30 V	<30 V	<30 V	<30 V	**<30 V**	<30 V	<30 V		**49 V**	<30 V
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	**10**	**3.4**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**18**		**14**	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.86	<1.6 Q	<1.3	<0.92	<0.91	<0.95	<1.5	<1.7 Q	<0.80	<1.2		<1.2 Q	<0.51
07/19/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.5**	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 Y		<3.0	<3.0
07/10/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**0.26**	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.5**	<3.0
07/09/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.8**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	**10,800**	
06/04/87																	**3,200**	
09/03/87																	**7,510**	
12/03/87																	**4,830**	
03/03/88																	**13,500**	
04/07/88																	**12,100**	
08/10/88																	**11,900**	
11/15/88																	**8,600**	
01/26/89																	**11,500**	
04/27/89																	**8,580**	
07/27/89																	**15,200**	
10/26/89																	**10,100**	
01/25/90																	**12,700**	
05/03/90																	**8,450**	
09/20/90																	**8,520**	
12/11/90																	**9,320**	
01/29/91																	**12,300**	
05/01/91																	**29,800**	
06/19/91																	**9,550**	
10/08/91																	**16,500**	
07/08/92		**13.1**		**108**	<0.526	**1.67**	**47.4**		<0.526		**4.82**		<1.05	<0.526	**3.78**		**7,400**	**0.714**
12/18/92		**19.7**		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	**12.3**		**11,800**	**60.4**
06/30/93	**650**		220	<100	<100	<100	**450**	<100		<100	<100	<200	<100	<100	<200	<100	**11,000**	
12/28/93	**1,000**		<200	<100	120	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	**14,000**	
06/22/94	**1,600**		540	450	<100	<100	**470**	<100		<100	<100	<200	<100	<100	**240**	<100	**17,000**	
07/06/95	**960**		<250	<250	<250	<250	<1300		<250	<250	<250	<500	<1300	<500	<1300	<630	**6,600**	<250
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	**970**	<5000
07/11/97	**1,700**		<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		**24,000**	**800**
06/24/98	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**600**	<150
06/08/99	<750		<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750		**3,450**	<750
07/17/00	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	**340**		**9,900**	**770**
01/30/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**16,000**	<1500
07/10/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**4,500**	<1500
08/06/02	<600		<600	<600	<600	<600	<600	<600	**1,100**	<600	<600	<600	<600	<600	<600		**5,500**	<600
07/23/03	**750**		<300	<300	<300	<300	<300	<300	**1,300**	<300	<300	<300	<300	<300	<300		**7,300**	<300
07/14/04	<300J		<300J	**550**	<300	<300	**570**	<300	**600**	<300	<300	<300	<300	<300	<400		**5,100**	**390**
07/20/05	410 V		<300 V	**<300 V**	<300 V	<300 V	**<300 V**	<300 V	**<300 V**	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**5200 V**	**<300 V**
07/19/06	**370**		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		**5,800**	<300
07/10/07	**670**		<150	<180	<120	<91	<180	<230	<130	<55	<110	<99	<130	<57	<110		**6,700**	<46
07/23/08	**700**		<180	<190	<140	<270	<360	<210	<150	<200	<130	<150	<210	<250	<140		**8,800**	<70
7/23/2008 Duplicate	**740**		<180	<200	<140	<280	<370	<210	<160	<200	<140	<150	<210	<250	<140		**9,300**	<71
07/06/09	**370**		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130		**5,500**	<63
7/6/2009 Duplicate	**410**		<160	<180	<120	<240	<330	<190	<140	<180	<120	<140	<190	<220	<130		**6,000**	<63

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
07/15/10	**450**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6,200**	<3.0
04/06/11																	**6,300**	
4/6/2011 Duplicate																	**5,300**	
07/25/11	**280**		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	<1.4	<1.6	<0.78	<1.1		**4,200**	<0.49
7/25/2011 Duplicate	**160**		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**2,300**	<0.49
10/03/11																	**3,900**	
10/3/2011 Duplicate																	**3,100**	
01/23/12	**280 M**		<11	<10	<10	<8.5	<15 M	<12	<9.0	<8.9	<9.3	<14	<16 M	<7.8 Y	<11 M		**4,500 M**	<4.9
04/03/12																	**4,200**	
4/3/2012 Duplicate																	**3,900**	
07/09/12	**260 V**		<11 V	<10 V	<10 V	<8.4 V	<15 V	<12 V	<8.9 V	<8.8 V	<9.2 V	<14 V	<16 V	<7.8 V	<11 V		**3,400 V**	<4.9 V
7/9/2012 Duplicate	**280 V**		<11 V	<10 V	<10 V	<8.3 V	<15 V	<12 V	<8.8 V	<8.7 V	<9.1 V	<14 V	<16 V	<7.7 V	<11 V		**3,300 V**	<4.8 V
07/05/13	**210**		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		**3,400**	<49
7/5/2013 Duplicate	**200**		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		**3,700**	<49
07/10/14	**170**		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		**3,700**	<49
07/09/15	**120**		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		**2,500**	<13
7/9/2015 Duplicate	**100**		<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61		**2,300**	<13
07/12/16	**58**		<6.3	<26	<6.8	<11	<15	<21	<6.3	<7.9	<6.3	<8.9	<16	<7.4	<11		**1,400**	<13
7/12/2016 Duplicate	**61**		<6.1	<25	<6.6	<10	<15	<20	<6.1	<7.6	<6.1	<8.6	<15	<7.1	<10		**1,500**	<12
07/18/17	**57**		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<21		**1,200**	<25
7/18/2017 Duplicate	**52**		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	**38**		**1,100**	<25
07/18/18	**56 Q**		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11		**1,200**	<12
7/18/2018 Duplicate	**50 Q**		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11		**1,100**	<12
07/15/19	**26**		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		**610**	<13
7/15/2019 Duplicate	**52**		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		**740**	<13

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	4-Chloro-3-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
07/08/92		<1.07		<1.07	1.31	<0.535	<1.07		<0.535		<0.535		<0.535	<1.07	<1.07		**39.2**	<0.535
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<0.5	<1	<1		**30.3**	<0.5
06/29/93	**1.8**		<1	<1	<1	<10	<1	<1		<10	<1	<20	<10	<1	<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	**17**	<10	<20	<10	**33**	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<20	<50	<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	<0.105	<0.362	<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	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.4**	<3.0
07/17/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30
01/30/01	<3.0		**15**	<3.0	<3.0	<3.0	**4.3**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4.5**		**9.8**	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.3**	<3.0
08/06/02	**4.9**		<3.0	**3.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.9**	<3.0
07/23/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/04	<3.0		<3.0	<3.0	**4.6**	<3.0	<4.0	<3.0J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		**25**	<3.0J
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**8.8**	<3.0
7/20/2005 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**10**	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.4**	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.6**	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**40**	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**12**	<3.0
07/15/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**49**	<3.0
07/20/11	**9.4**		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**120**	<0.49
01/23/12	<5.9		<5.9	<5.3	<5.3	<4.4	<8	<6.4	<4.6	<4.6	<4.8	<7.4	<8.5	<4.0	<5.9		**86**	<3.0
04/09/12																	**42**	
07/06/12	**5.5**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**87**	<3.0
07/05/13	<5.6		<5.6	<5.1	<5.1	<4.1	<7.6	<6.1	<4.4	<4.3	<4.5	<7.1	<8.1	<3.8	<5.6		**72**	<3.0
07/08/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**16**	<3.0
07/07/15	**1.1**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**22**	<3.0
07/07/16	**0.61**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**14**	<3.0
07/17/17	**0.54**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.5 B**	<3.0
07/11/18	**2.2**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**40**	<3.0
07/15/19	**1.5**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**27**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) B = Analyte detected in the associated Method Blank

4.) J = Estimated Value

5.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

6.) Q = Laboratory Control Sample outside acceptance limits.

7.) Y = Replicate/Duplicate precision outside acceptance limits.

8.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Dinoseb
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	**82**		<1
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	**70**		<10
06/21/94	**17**		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	**140**		<10
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<50	<10	<25
07/09/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	**25**	<10	<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	<75		<75	<75	<75	<75	**180**	<75	<75	<75	<75	<75	<75	<75	<75	**180**	<75	
07/18/00	**3.6**		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	**3.2**	**170**	<3	
01/30/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	**600**	<60	
07/11/01	**3.7**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**84**	<3.0	

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Dinoseb
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**43**	<3.0	
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	**64**	<3.0J	
07/19/05	4.8		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**180**	<3.0	
07/19/06	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	**270**	<15	
07/10/07	**57**		<8.5	<10	<6.7	<5.1	<10	<13	<7.1	<3.1	<6.2	<5.5	<7.5	<3.2	<6.1	**540**	<3	
07/23/08	**13**		<3.4	<3.7	<3.0	<5.2	<6.9	<4.0	<3.0	<3.7	<3.0	<3.0	<4.0	<4.7	<3.0	**140**	<3.0	
07/07/09	**47**		<16	<17	<12	<24	<32	<19	<14	<18	<12	<14	<19	<22	<13	**660**	<6.3	
07/14/10	**46**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**440**	<3.0	
07/19/11	**12**		<1.1	<1.0	<1.0	<0.82	<1.5	<1.2	<0.87	<0.86	<0.90	<1.4	<1.6	<0.76	<1.1	**97**	<0.48	
07/09/12	**34**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**360**	<3.0	
07/01/13	**78**		<5.6	<5.1	<5.1	<4.2	<7.7	<6.1	<4.4	<4.4	<4.6	<7.1	<8.2	<3.9	<5.6	**960**	<3.0	
7/1/2013 Duplicate	**67**		<5.6	<5.1	<5.1	<4.2	<7.7	<6.1	<4.4	<4.4	<4.6	<7.1	<8.2	<3.9	<5.6	**950**	<3.0	
07/08/14	**37**		<5.5	<5.0	<5.0	<4.1	<7.5	<6.0	<4.4	<4.3	<4.5	<7.0	<8.0	<3.8	<5.5	**660**	**3.2**	
07/06/15	**18**		<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	**400**	<3.0	
07/05/16	**6.5**		<3.0	<5.2	<3.0	<3.0	<3.0	<4.2	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	**180**	<3.0	
07/17/17	**2.3**		<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**52**	<3.0	
07/11/18	**4.7**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**120**	<3.0	
07/09/19	**9.0**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**170**	<3.0	

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**290**	<150
07/17/00	**21.5**		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	**3.15**		**510**	<3
01/30/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		**950**	<60
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.88	<1.6 Q	<1.3	<0.94	<0.92	<0.97	<1.5	<1.7 Q	<0.82	<1.2		<1.2 Q	<0.52
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.9**	<3.0
04/09/12																	**450**	
4/9/2012 Duplicate																	**470**	
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**420**	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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		**4,550**	<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	**1,800**	
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	**1,500**	
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	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**56**	<30
01/11/00	**20**		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		**290**	<15
07/18/00	**16**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**300**	<3.0
01/31/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		**400**	<60
07/10/01	**12**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**150**	<3.0
01/15/02	**24**		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		**180**	<15
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/14/03	<3.0		<3.0	<3.0	<3.0	<3.0	**3.3**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.1**	<3.0
07/23/03	**5.6**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**79**	<3.0
01/21/04	<15J		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15J		**190**	<15
07/14/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		**45**	<3.0
01/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/21/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/17/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.7**	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**<3.0**	<3.0
01/23/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
1/23/2007 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/28/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/24/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/25/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
04/05/11																	<3.0	
07/19/11	<1.1		<1.1	<1.0	<1.0	<0.82	<1.5	<1.2	<0.87	<0.86	<0.90	<1.4	<1.6	<0.76	<1.1		<1.1	<0.48
10/03/11																	**3.2**	
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
04/03/12																	<3.0	
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/08/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.4**	<3.0
01/22/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/16/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.6**	<3.0
01/19/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.5**	<3.0
07/08/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/14/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/11/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/23/17	**0.66**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.7**	<3.0
07/20/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**0.75 B**	<3.0
01/09/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/16/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.7**	<3.0
01/22/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/16/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) B = Analyte detected in the associated Method Blank

4.) J = Estimated Value

5.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

6.) Q = Laboratory Control Sample outside acceptance limits.

7.) Y = Replicate/Duplicate precision outside acceptance limits.

8.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.6**	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/17/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4**		**7.4**	<3.0
01/30/01	<3.0		**11**	<3.0	<3.0	<3.0	**4.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**6.7**		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/12/04	<3.0		<3.0	<3.0	**14**	<3.0	<4.0	<3.0J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.86	<1.6 Q	<1.3	<0.92	<0.91	<0.95	<1.5	<1.7 Q	<0.80	<1.2		<1.2 Q	<0.51
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/5/13 Checked By: A. Voit, 9/21/13

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

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	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	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**3.2**		**9.6**	<3.0
01/30/01	<3.0		**10**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	**3.3**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	**190**		<1.2	<1.1	<1.1	<0.89	<1.6 Q	<1.3	<0.95	<0.93	<0.98	<1.5	<1.7 Q	<0.83	<1.2		**3,000**	<0.52
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
1/23/2012 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
04/09/12																	<3.0	
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W17

Date	2,3,4,6-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	Pentachlorophenol	Phenol
07/24/03	**72**	<60	<60	**250**	**98**	<60	<60	<60	**340**	**340**	<60	<60	<60	<60	**1,400**	**91**
07/13/04	<60	<60J	<60J	<60	<60J	**110**	**130**	<60	**190**	**180**	**150**	<60	<60	<80	**1,000**	**390**
01/21/05	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	**94 V**	**65 V**	**420 V**	**67 V**	<30 V	<30 V	<30 V	**240 V**	**110 V**
1/21/2005 Duplicate	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	**95 V**	**67 V**	**420 V**	**68 V**	<30 V	<30 V	<30 V	**230 V**	**70 V**
07/20/05	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	**<60 V**	**<60 V**	**98 V**	**<60 V**	<60 V	<60 V	<60 V	**810 V**	<60 V
07/18/06	<60	**91**	<60	<60	<60	<60	<60	<60	<60	**260**	<60	<60	<60	<60	**830**	**69**
01/23/07	<60	<60	<60	<60	<60	<60	<60	<60	<60	**110**	<60	<60	<60	<60	**940**	<60
1/23/2007 Duplicate	<60	<60	<60	<60	<60	<60	<60	<60	<60	**160**	<60	<60	<60	<60	**920**	<60
07/10/07	**24**	<15	<18	<12	<8.9	<18	<23	<12	<5.4	<11	<9.7	<13	<5.6	<11	**560**	<4.5
01/28/08	<21	<17	<20	<13	<10	<20	<26	<14	<6	<12	<11	<15	<6.3	<12	**620**	<5.1
07/23/08	**20**	<16	<18	<13	<25	<33	<19	<14	<18	<12	<14	<19	<23	<13	**460**	<6.4
07/06/09	**19**	<16	<18	<12	<24	<33	<19	<14	<18	<12	<14	<19	<22	<13	**570**	<6.3
7/6/2009 Duplicate	**17**	<16	<18	<12	<24	<33	<19	<14	<18	<12	<14	<19	<22	<13	**530**	<6.3
01/18/10	**25**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**440**	<3.0
07/15/10	**42**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**520**	<3.0
01/24/11	**21**	<11.0	<10.0	<10.0	<8.5	<15.0	<12.0	<9.0	<8.9	<9.3	<14.0	<16.0	<7.8	<11.0	**370**	<4.9
07/19/11	**17**	<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1	**180**	<0.49
01/23/12	**11**	<6	<5.5	<5.5	<4.5	<8.2	<6.6	<4.8	<4.7	<4.9	<7.7	<8.8	<4.2	<6	**330**	<3.0
07/06/12	**8.1**	**1.1**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**190**	<3.0
7/6/2012 Duplicate	**8.2**	**1.2**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**140**	<3.0
01/07/13	<11	<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11	**220**	<4.8
07/02/13	**16**	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	**370**	<4.9
01/22/14	<12	<12	<11	<11	<9	<16	<13	<9.6	<9.5	<9.9	<15	<18	<8.4	<12	**190**	<5.3
07/16/14	**11**	<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11	**230**	<4.9
01/15/15	<10	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	**300**	<3.0
1/15/2015 Duplicate	<10	<5.1	<3.0	<5.1	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.1	<3.0	<6.1	**81**	<3.0
07/09/15	**11**	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	**260**	<3.0
01/14/16	<10	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	**110**	<3.0
1/14/2016 Duplicate	<10	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	**120**	<3.0
07/07/16	**1.3**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**60**	<3.0
01/16/17	**3.6**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**170**	<3.0
07/11/17	**3.2**	<3.0	<5.1	<3.0	<3.0	<3.0	<4.1	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	**69**	<3.0
01/11/18	**2.6**	**0.52**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**72**	<3.0
07/11/18	**4.6**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	**99**	<3.0
01/24/19	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**67**	<3.0
07/11/19	**3.9**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**77**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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		**11,800**	<5
07/08/92		**17**		<1.02	**70.8**	**9.67**	**85.9**		<0.51		**3.6**		<1.02	**24.9**	<1.02		**9,380**	**27**
09/17/92		**47.8**		<1	**29.6**	<0.5	<1		**1.68**		**4.25**		**4.39**	<0.5	**102**		**11,600**	<0.5
12/17/92		**33.8**		<1	**15**	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		**19,500**	**60.7**
03/23/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		**7,470**	<2
06/29/93	**750**		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	**13,000**	
12/28/93	**840**		**52**	**170**	<10	**23**	**45**	**16**		**14**	<10	<20	<10	100	<20	<10	**5,600**	
06/22/94	**1,000**		**400**	**400**	**220**	<100	**350**	<100		<100	<100	<200	<100	<100	<200	<100	**11,000**	
07/05/95	<640		<260	<260	<260	<260	<1300		<260	<255	<260	<510	<1300	<510	<1300	<640	**5,100**	<260
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	**1,100**	<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		**15,000**	**320**
06/24/98	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		**2,500**	<300
06/08/99	<30.0		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0		**250**	<30.0
07/18/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**3.3**		**80**	<3.0
01/31/01	<3.0		**9.5**	<3.0	<3.0	<3.0	**3.8**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**7.1**		**32**	<3.0
07/11/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**16**	<3.0
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.6**	<3.0
07/23/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.7**	<3.0
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/18/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 M	<3.0	<3.0	<3.0	<3.0	<3.0 M	<3.0	<3.0 M		<3.0 M	<3.0 M
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	**5.8**
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/19/11	**19**		<1.2	<1.1	<1.1	<0.87	<1.6	<1.3	<0.93	<0.91	<0.96	<1.5	<1.7	<0.81	<1.2		**230**	<0.51
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.9**	<3.0
04/09/12																	<3.0	
07/19/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.6**	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/11/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.0**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W19

Date	2,3,4,6-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	Pentachlorophenol	Phenol
07/18/00	<300	<300	<300	**570**	<300	<300	**630**	**870**	**910**	**1,100**	**2,400**	<300	<300	**1,000**	<300	**3,600**
07/11/01	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
01/15/02	**150**	**48**	**110**	**150**	**220**	**320**	**78**	**570**	**750**	**260**	**200**	**36**	**120**	**120**	**94**	**240**
08/06/02	<150	<150	<150	**190**	**250**	<150	**410**	**490**	**590**	**530**	**720**	<150	<150	<150	<150	**2,000**
01/14/03	**16**	<3.0	**4.9**	**45**	<3.0	<3.0	<3.0	<3.0	<3.0	**29**	<3.0	<3.0	<3.0	<3.0	**44**	<3.0
07/22/03	**1,700**	<60	<60	<60	<60	<60	<60	**1,400**	<60	**170**	<60	<60	<60	<60	**710**	**960**
01/20/04	<60	<60	<60	<60J	<60	<60J	<60	<60	**95**	<60J	<60J	<60	<60	<60J	**50**	**200**
07/13/04	<60	**65J**	<60J	**72**	<60	**180**	**72**	**700**	**380**	**110**	**85J**	<60	**85**	<80	**210**	**640**
01/21/05	**41 V**	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**7900 V**	**4100 V**	**4600 V**	**4100 V**	<600 V	<600 V	<600 V	**72 V**	**5100 V**
07/20/05	**4.9**	<3.0	<3.0	<3.0	<3.0	**3.8**	<3.0	**20**	**13**	**4.1**	**18**	**4.4**	<3.0	<3.0	**21**	<3.0
01/17/06	**290 V**	<30.0	**96 V**	<1500	<1500	**400 V**	**280 V**	**7600 V**	**1900 V**	**23000 V**	**2200 V**	**200 V**	**280 V**	**78 V**	**260 V**	**7400 V**
07/20/06	**37.0**	**26**	**11**	**86**	**140**	**77.0**	**81**	**3,400**	**500**	**1,800.0**	**570**	**100.0**	**47**	**18**	**72**	**430**
01/23/07	**10.0**	<3.0	**3**	<3.0	**11**	<3.0	<3.0	<3.0	<3.0	**150.0**	**27**	**15.0**	**3.1**	**4.5**	**27**	**70**
07/11/07	**11.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**68**	<3.0
7/11/2007 Duplicate	**9.6**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**57**	<3.0
01/28/08	**6.2**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**49**	<3.0
07/24/08	**9.9**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**60**	<3.0
01/20/09	**3.3**	<3.0	<3.0	<3.0	<3.0	<3.5	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**22**	<3.0
07/07/09	**9.0**	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0	<3.0	<3.0	**7.1**	<3.0	<3.0	<3.0	**87**	<3.0
01/18/10	**4.5**	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**28**	<3.0
07/14/10	**11.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.2	<3.0	<3.0	**59**	<3.0
01/25/11	**75.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**430**	<3.0
04/05/11															**710**	
07/19/11	**27**	<1.1	<1.0	<1.0	<0.85	<1.6	<1.3	<0.91	<0.90	<0.94	<1.5	<1.7	<0.79	<1.1	**150**	<0.50
10/03/11															**210**	
01/17/12	**81**	**2.6**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**570**	<3.0
04/03/12															**270**	
07/06/12	**85**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**640**	<3.0
01/04/13	**24.0**	<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11	**260**	<4.9
07/01/13	**15.0**	<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11	**120**	<4.8
01/21/14	**50.0**	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	**35**	<7.8	<11	**310**	<4.9
07/08/14	**33.0**	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	**260**	<4.9
01/15/15	**40.0**	<5.1	<3.0	<5.1	<3.0	<15	<4.0	<3.0	<4.0	<3.0	<4.0	<6.1	<3.0	<6.1	**270**	<3.0
07/08/15	<10	<5.1	<3.0	<5.1	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.1	<3.0	<6.1	**250**	<3.0
01/14/16	**72.0**	<5.1	<3.0	<5.1	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.1	<3.0	<6.1	**610**	<3.0
07/07/16	**77.0**	<3.0	<5.1	<3.0	<3.0	<3.0	<4.1	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	**660**	<3.0
01/16/17	**25.0**	<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**230**	<3.0
07/17/17	**16.0**	<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**120**	<3.0
01/10/18	**41.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**290**	<3.0
07/11/18	**25.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**180**	<3.0
01/23/19	**11.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**89**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.1**	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/17/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**3.4**		**10**	<3.0
01/30/01	<3.0		**7.9**	<3.0	<3.0	<3.0	**27**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**8.2**		**44**	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.1		<1.1	<1.0	<1.0	<0.85	<1.5 Q	<1.2	<0.90	<0.89	<0.93	<1.4	<1.6 Q	<0.78	<1.1		**1.3 Q**	<0.49
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/19	**0.58**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.0**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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		**37,300**	<5	
06/14/92		**73.1**		<11.1	**77.9**	<5.56	<11.1		<0.556		<5.56		**1.7**	<5.56	<1.11		**33,500**	<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**		**74,300**	**119**	
03/24/93		<20		<6	<2	<2	<6000		<2		<2		<10	<10	<10		**81,440**	<2	
06/30/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	**1**		<20
12/28/93	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	**1,500**		**460**
04/25/94	**430**		<20	<10	**140**	**110**	**45**	**66**		**17**	**110**	<20	**19**	**130**	**71**	**24**	**1,100**		**27**
06/22/94	**2,900**		**930**	**1,800**	**600**	<100	**200**	310		<100	**210**	<200	**150**	**300**	**300**	<100	**6,100**		<200
10/04/94	**190**		<100	<50	<50	<50	<100	<50		<50	<50	<100	<50	<50	<100	<50	**1,400**		<100
03/09/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	**7,300**		<2000
07/06/95	<630		<250	<250	<250	<250	<1300		<250	<250	<250	<500	<1300	<500	<1300	<630	**2,600**	<250	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	**2,000**	<1000	
12/18/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	**3,200**	<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	**1,280**		<7.3	<7.1	<8	<15	<7.2	<8.7	<12	<7.9	<15	<17	<7.5	<6.9	<7.4	<8.5	**7,540**	<10	
01/21/97	**1,180**		<37	<36	<40	<78	<36	<44	<59	<40	<78	<87	<38	<35	<37	<43	**5,800**	<53	
07/11/97	**3,100**		<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		**17,000**	<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		**12,000**	<0.127	
06/24/98	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**6,800**	<1500	
01/26/99							**11,000**	**12,000**	**49,500**	**15,500**	**10,550**	**4,350**					**36,000**	**111,500**	
08/07/02	**1,400**		**920**	**910**	**3,600**	**3,300**	<750	**5,700**	**4,200**	**7,500**	**5,600**	**13,000**	<750	<750	<750		**3,900**	**19,000**	
01/14/03	**2,200**		<750	<750	**6,500**	<750	**3,300**	<750	<750	<750	**9,300**	<750	<750	<750	<750		**5,700**	<750	
01/20/05	**200 V**		<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	**190 V**	**100 V**	**540 V**	**89 JV**	<60 V	<60 V	<60 V		**1100 V**	**110 V**	
07/21/05	**620 V**		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**3200 V**	**1700 V**	**9700 V**	**1300 V**	<600 V	<600 V	<600 V		**4500 V**	**<600 V**	
07/20/06	**1,100**		<600	<600	<600	**940**	<600	<600	<600	**3,900**	**17,000**	**3,700**	**710**	<600	<600		**5,600**	<600	
01/23/07	**970**		<300	<300	<300	<300	<300	<300	<300	<300	**2,300**	<300	<300	<300	<300		**5,900**	**890**	
07/11/07	**450**		<73	<87	<58	<44	<89	<110	<61	<27	<54	<48	<65	<28	<53		**3,500**	<22	
01/28/08	**520**		<82	<97	<65	<49	<99	<130	<68	<30	<60	<53	<73	<31	<59		**5,000**	<25	
07/24/08	**470**		<86	<93	<66	<130	<170	<100	<74	<95	<65	<73	<100	<120	<67		**4,400**	<34	
01/21/09	**170**		<82	<90	<64	<130	<170	<96Q	<71	<91	<63	<70	<97	<110	<65		**2,300**	<32	
07/07/09	**580**		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130		**5,800**	<63	
01/19/10	**31**		<8.2	<9	<6.4	<13	<17	<9.6	<7.1	<9.1	<6.3	<7	<9.7	<11	<6.5		**480**	<3.2	
07/15/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.2	<3.0	<3.0		**19**	<3.0	
7/15/2010 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**52**	<3.0	

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
01/25/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 Q	<3.0	<3.0		**12**	<3.0	
04/05/11																	**7.1**		
07/19/11	**1.3**		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**24**	<0.49	
10/03/11																	**36**		
01/18/12	**130**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1,100**	<3.0	
04/03/12																	**8,000**		
07/10/12	**310**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2,600**	<3.0	
01/07/13	**730**		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		**5200**	<12	
1/7/2013 Duplicate	**850**		<28	<26	<26	<21	<38	<31	<22	<22	<23	<36	<41	<19	<28		**6900**	<12	
07/08/13	**430**		<29	<26	<26	<21	<39	<31	<23	<22	<23	<36	<42	<20	<29		**3700**	<13	
01/22/14	**520**		<120	<110	<110	<88	<160	<130	<94	<92	<97	<150	<170	<82	<120		**5100**	<52	
07/08/14	**200**		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		**2900**	<49	
01/15/15	**190**		<54	<13	<54	<20	<160	<43	<13	<43	<30	<43	<65	<29	<65		**1800**	<14	
07/09/15	**260**		<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61		**2700**	<13	
01/13/16	**150**		<52	<13	<52	<19	<160	<42	<13	<42	<29	<42	<63	<28	<63		**1400**	<14	
07/11/16	**240**		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		**3000**	<24	
01/19/17	**430**		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		**6,100**	<48	
1/19/2017 Duplicate	**460**		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		**6,100**	<48	
07/18/17	**390**		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		**4,200**	<24	
01/15/18	**440**		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		**4,900**	<26	
1/15/2018 Duplicate	**470**		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		**5,300**	<26	
07/18/18	**420 Q**		<46	<42	<52	<40	<58	<42	<48	<40	<42	<46	<60	<44	<48		**5,200**	<52	
01/28/19	**160**		<22	<20	<25	<19	<28	<20	<23	<19	<20	<22	<29	<21	<23		**3,000**	<25	
1/28/2019 Duplicate	**200**		<22	<20	<25	<19	<28	<20	<23	<19	<20	<22	<29	<21	<23		**3,100**	<25	
07/18/19	**1.0**		<3.0	<3.0	<3.0	<3.0	<3.0 Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**13**	<3.0	

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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		<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		<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	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**230**	<150	
01/11/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**330**	<30	
07/18/00	**7.4**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4.7**		**160**	**20**	
01/30/01	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**150**	<30	
07/10/01	**12**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**24**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**100**	<3.0	
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4.2**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**16**	<3.0	
01/14/03	<3.0		<3.0	<3.0	<3.0	<3.0	**3.6**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.2**	<3.0	
07/22/03	**4.4**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**5.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**44**	<3.0	
01/20/04	<15J		<15	<15	<15	<15	<15	<15	32	<15	<15	<15	<15	<15	<15J		**210**	<15	
01/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**14.0**	<3.0	
07/20/05	**6.3**		<3.0	<3.0	**3.0**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**150**	<3.0	
7/20/2005 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**59**	<3.0	

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
01/17/06	<30 V		<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V		**310 V**	<30 V	
07/18/06	<15.0		<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0		**68**	**36**	
01/24/07	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**350**	<30	
07/11/07	**3.9**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**60**	<3.0	
01/29/08	**7.7**		<4.2	<4.9	<3.3	<3.0	<5.1	<6.4	<3.5	<3.0	<3.1	<3.0	<3.7	<3.0	<3.0		**230 M**	<3.0	
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**9.6**	<3.0	
01/20/09	**8.9**		<4.2	<4.5	<3.2	<6.3	<8.4	<4.8Q	<3.6	<4.6	<3.2	<3.5	<4.9	<5.8	<3.3		**210**	<3.0	
07/06/09	**11.0**		<4	<4.4	<3.1	<6.1	<8.2	<4.7	<3.5	<4.4	<3.1	<3.4	<4.7	<5.6	<3.2		**150**	<3.0	
01/18/10	**5.9**		<4.1	<4.5	<3.2	<6.3	<8.3	<4.8	<3.5	<4.5	<3.1	<3.5	<4.8	<5.7	<3.2		**65**	<3.0	
07/13/10	**6.1**		<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0		**130**	<3.0	
7/13/2010 Duplicate	**4.6**		<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0		**93**	<3.0	
01/24/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.4**	<3.0	
07/19/11	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**3.7**	<0.49	
7/19/2011 Duplicate	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**5.6**	<0.49	
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.6**	<3.0	
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.4**	<3.0	
01/04/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**10**	<3.0	
07/05/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.2**	<3.0	
01/21/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.1**	<3.0	
07/09/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.7**	<3.0	
01/19/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.4**	<3.0	
07/08/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5.0**	<3.0	
01/14/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.9**	<3.0	
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.0**	<3.0	
01/16/17	**0.6**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.2**	<3.0	
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.0**	<3.0	
01/09/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.6**	<3.0	
07/11/18	**0.41**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**8.0**	<3.0	
01/21/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.1**	<3.0	
07/25/19	**0.22**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.7**	<3.0	

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

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
02/25/92		<10		<10	<5	<5	<10		<5		**25.7**		<10	<5	<10		**22,300**	<5
06/14/92		**69.9**		<10.5	<5.26	<5.26	<1.05		<0.526		<5.26		<1.05	<5.26	<1.05		**26,100**	<0.526
09/17/92		**74**		<1	**177**	<0.5	<1		**5.74**		**110**		<1	<0.5	**139**		**31,700**	<0.5
12/18/92		**40.6**		<1	<0.5	<0.5	<1		<0.5		**71.2**		<1	<0.5	<1		**45,100**	**152**
03/24/93		<10		<3	<1	<1	<3000		<1		<1		<5	<5	<5		**30,400**	<1
06/30/93	**1,600**		<200	<100	**130**	<100	450	<100		<100	<100	<200	<100	<100	<200	<100	**16,000**	
12/27/93	**1,600**		**380**	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	**3,500**	
04/25/94	**4,800**		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	**32,000**	
06/22/94	**2,900**		**690**	**1,100**	**250**	<100	**480**	**270**		<100	**180**	<200	<100	**280**	**230**	<100	**6,400**	
10/04/94	**4,100**		<500	<250	**450**	<250	<500	<250		<250	<250	<500	<250	<250	<500	<250	**12,000**	
03/09/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	2900	<1000	**14,000**	
07/06/95	**7,600**		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<5000	<10
09/13/95	<1000		<1000	**1,100**	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	**2,900**	<1000	<2000	<1000	**4,000**	<1000
03/21/96	<2000		<2000	<2000	<2000	<2000	<4000	<2000	<2000	<2000	<2000	<4000	<2000	<2000	<4000	<2000	**8,200**	<2000
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	**1,800**	<5000
09/25/96	**2,950**		<7.3	**87**	<8	<15	<7.2	<8.7	<12	<7.9	<15	<17	<7.5	**54**	<7.4	<8.5	**17,300**	<10
07/11/97	**5,100**		<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		**47,000**	**1,100**
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		**14,000**	<0.127
06/24/98	**1,600**		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**15,000**	<1500
01/27/99																	**18,000**	
06/09/99	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**4,600**	<1500
01/11/00	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**12,500**	<1500
07/18/00	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	**1,600**		**23,000**	<1500
01/31/01	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		**210**	<15
07/11/01	**1,100**		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**6,500**	<150
01/15/02	**260**		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**1,500**	<150
08/06/02	**890**		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**6,800**	<600
01/14/03	**300**		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		**2,700**	<60
07/24/03	**190**		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	**160**	<60	<60		**1,800**	<60
01/21/04	<300J		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		**3,600**	<300J
07/13/04	<60J		<60	<60	<60	<60	<80	<60	<60	<60	<60	<60	<60	<60	<80		**1,900**	<60
01/20/05	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**2000 V**	<300 V
07/20/05	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**1900 V**	<300 V
01/17/06	**360 V**		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**2800 V**	<300 V
07/20/06	**320**		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		**2,400**	<300
01/23/07	**120**		<60	<60	<60	<60	<60	<60	<60	<60	**72**	<60	<60	<60	<60		**960**	<60
07/10/07	**160**		<30	<35	<24	<18	<36	<45	<25	<11	<22	<19	<26	<11	<21		**1,200**	<9.1
7/10/2007 Duplicate	**160**		<35	<41	<28	<21	<42	<54	<29	<13	<26	<23	<31	<13	<25		**1,200**	<11

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

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
01/28/08	**290**		<80	<94	<63	<48	<97	<120	<67	<29	<59	<52	<71	<30	<58		**3,700**	<24
01/28/08 Duplicate	**380**		<81	<96	<64	<48	<98	<120	<67	<29	<60	<53	<72	<30	<58		**4,600**	<25
07/24/08	**680**		<170	<180	<130	<250	<340	<190	<140	<180	<130	<140	<200	<230	<130		**6,500**	<65
01/20/09	**42**		<17	<18	<13	<25	<34	<19Q	<14	<18	<13	<14	<20	<23	<13		**840**	<6.5
07/07/09	**8.5**		<8.1	<8.8	<6.2	<12	<16	<9.4	<6.9	<8.9	<6.1	<6.8	<9.5	<11	<6.3		**190**	<3.2
7/7/2009 Duplicate	**8.6**		<8.0	<8.7	<6.2	<12	<16	<9.3	<6.9	<8.8	<6.1	<6.8	<9.4	<11	<6.3		**190**	<3.1
01/18/10	**99**		<8.4	<9.1	<6.5	<13	<17	<9.8	<7.2	<9.3	<6.4	<7.1	<9.9	<12	<6.6		**1,600**	<3.3
07/15/10	**380**		<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11		**2,900**	<4.9
01/25/11	**60**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**640**	<3.0
04/06/11																	**680**	
07/20/11	<110		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**1100**	<0.49
7/20/2011 Duplicate	<110		<1.1	<1.0	<1.0	<0.85	<1.6	<1.3	<0.91	<0.90	<0.94	<1.5	<1.7	<0.79	<1.1		**1100**	<0.50
10/03/11																	**750**	
01/23/12	**27**		<23	<21	<21	<17	<31	<25	<18	<18	<19	<29	<33	<16	<23		**460**	<9.9
04/03/12																	**580**	
07/10/12	**40 V**		<11 V	<10 V	<10 V	<8.3 V	<15 V	<12 V	<8.8 V	<8.7 V	<9.1 V	<14 V	<16 V	<7.7 V	<11 V		**540 V**	<4.8 V
01/04/13	**42**		<12	<11	<11	<8.6	<16	<13	<9.2	<9.1	<9.5	<15	<17	<8	<12		**560**	<5.1
07/02/13	<22		<22	<20	<20	<17	<30	<24	<18	<17	<18	<28	<32	<15	<22		**120**	<9.7
01/22/14	<11		<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11		**59**	<4.9
07/07/14	**2.9**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**33**	<3.0
01/15/15	**11**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**92**	<3.0
07/09/15	**170**		<3.0	<3.0	<3.0	<3.0	<7.7	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.1		**2,000**	<3.0
01/13/16	**27**		<3.0	<3.0	<3.0	<3.0	<7.7	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.1		**260**	<3.0
07/07/16	**46**		<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**570**	<3.0
01/16/17	**69**		<3.0	<10	<3.0	<4.0	<5.8	<8.0	<3.0	<3.0	<3.0	<3.4	<6.0	<3.0	<4.0		**830**	<4.8
07/17/17	**2.0**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**19**	<3.0
01/10/18	**19**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**270**	<3.0
07/12/18	**0.99**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.5**	<3.0
01/24/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.8**	<3.0
07/15/19	**120**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1,800**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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		**16,600**	**74.4**
12/17/92		<1		<1	**19**	**7.9**	<1		<0.5		<0.5		<1	**81.2**	<1		**21,300**	**105**
06/30/93	**710**		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	**10,000**	
12/28/93	**3,000**		**400**	<100	**320**	<100	<200	<100		**110**	<100	<200	**370**	<100	<200	<100	**30,000**	
06/22/94	**3,000**		**210**	**980**	**150**	<100	**250**	<100		<100	<100	<200	<100	**270**	**340**	<100	**33,000**	
07/06/95	<1300		<500	<500	<500	<500	<2500		<500	<500	<500	<1000	<2500	<1000	<2500	<1300	**7,700**	<500
07/09/96	<10000		<10000	<10000	<10000	<10000	<20000	<10000	<10000	<10000	<10000	<20000	<10000	<10000	<20000	<10000	**3,900**	<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		**25,000**	**530**
06/24/98	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		**16,000**	<3000
06/08/99	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		**14,000**	<3000
07/18/00	**1,125**		**800**	<150	<150	<150	**600**	<150	<150	<150	<150	<150	<150	<150	**400**		**13,000**	**755**
01/31/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**16,000**	<1500
07/11/01	**530**		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	**90**	<60	<60		**5,200**	<60
08/06/02	**760**		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**7,000**	<600
07/22/03	**320**		<150	**340**	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**4,900**	<150
07/13/04	**30J**		**61**	**190**	<30	<30	**99**	<30J	<30	**30J**	<30	<30J	<30J	<30J	**64**		**7,400**	**110**
07/19/05	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V		**4500 V**	<600 V
07/19/06	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		**3,500**	<300
07/10/07	**520**		<79	<93	<63	<47	<96	<120	<66	<29	<58	<52	<70	<30	<57		**5,500**	<24
07/23/08	**650**		<170	<180	<130	<260	<340	<200	<150	<190	<130	<140	<200	<240	<130		**7,800**	<67
07/07/09	**510**		<160	<180	<120	<240	<330	<190	<140	<180	<120	<140	<190	<220	<130		**6,200**	<63
07/14/10	**640**		<12	<11	<11	<8.9	<16 M	<13	<9.5	<9.3	<9.8 M	<15	<17	<8.3	<12 M		**9,600**	<5.2
7/14/2010 Duplicate	**700**		<12	<11	<11	<8.7	<16	<13	<9.3	<9.1	<9.6	<15	<17	<8.1	<12		**10,000**	<5.1
07/25/11	**290**		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	<1.4	<1.6	<0.78	<1.1		**3,500**	<0.49
07/10/12	**580**		<5.6	<5.1	<5.1	<4.2	<7.7	<6.1	<4.4	<4.4	<4.6	<7.1	<8.2	<3.9	<5.6		**9,200**	**5.1**
07/05/13	**460**		<57	<52	<52	<43	<78	<63	<45	<45	<47	<73	<83	<40	<57		**6,400**	<25
07/09/14	**270**		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		**4,600**	<50
07/09/15	**330**		<26	<6.2	<26	<9.3	<77	<21	<6.2	<21	<14	<21	<31	<14	<31		**4,300**	<6.7
07/11/16	**350**		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		**5,200**	<24
07/18/17	**250**		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<21		**3,700**	<25
7/18/2017 Duplicate	**290**		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		**3,800**	<24
07/18/18	**520 Q**		<22	<20	<25	<19	<28	<20	<23	<19	<20	<22	<29	<21	<23		**5,200**	<25
07/18/19	**530**		<47	<43	<53	<41 Q	<59	<43	<49	<41	<43	<47	<61	<45	<49		**4,900**	<53
7/18/2019 Duplicate	**490**		<46	<42	<53	<40 Q	<59	<42	<48	<40	<42	<46	<61	<44	<48		**4,700**	<53

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		**34**	<15
07/18/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.6**	<3.0
01/30/01	<3.0		<60	<3.0	<3.0	<3.0	<60	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**360**	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.2**	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		**5.8**	<3.0
07/18/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**31**	<3.0
07/18/06	**39**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**27**	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
04/05/11																	**31**	
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.86	<1.6 Q	<1.3	<0.92	<0.91	<0.95	<1.5	<1.7 Q	<0.80	<1.2		<1.2 Q	<0.51
10/03/11																	<3.0	
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
04/03/12																	**28**	
07/19/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.9**	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.1**	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**0.45**	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/11/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**2.5**	<3.0
07/08/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W29-W29R

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
01/08/87																	**10,300**	
06/04/87																	**33,900**	
09/03/87																	**12,700**	
12/03/87																	**18,600**	
03/03/88																	**16,400**	
04/07/88																	**560**	
08/10/88																	**1,600**	
11/15/88																	**12,800**	
01/26/89																	**19,000**	
04/27/89																	**16,500**	
07/27/89																	**12,700**	
10/26/89																	**8,520**	
01/25/90																	**4,960**	
05/03/90																	**37**	
09/21/90																	**1,420**	
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		**1,100**	**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	**2,300**	**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		**1,500**	<0.127
06/23/98	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**5,500**	<600
06/08/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	**6.2**		**19**	<3
01/30/01	<3.0		**3.5**	<3.0	<3.0	<3.0	**5.5**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.7**	<3.0
07/11/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.2**	<3.0
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**16**	<3.0
07/24/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**18**	<3.0
07/13/04	<3.0		<3.0	<3.0	4.4	<3.0	<4.0	<3.0J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		**32**	<3.0
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**12**	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**16**	<3.0
07/10/07	**68**		**5.1**	<5.1	<3.4	<3.0	<5.2	<6.5	<3.6	<3.0	<3.2	<3.0	<3.8	<3.0	<3.1		**260**	<3.0

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W29-W29R

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
07/24/08	**4.7**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.8**	<3.0
7/24/2008 Duplicate	**5.1**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.2**	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.7**	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**50**	<3.0
07/19/11	**180**		<1.1	<1.0	<1.0	<0.83	<1.5	<1.2	<0.88	<0.87	<0.91	<1.4	<1.6	<0.77	<1.1		**1,700**	<0.48
07/09/12	**200 V**		<11 V	<10 V	<10 V	<8.4 V	<15 V	<12 V	<8.9 V	<8.8 V	<9.2 V	<14 V	<16 V	<7.8 V	<11 V		**1,800 V**	<4.9 V
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.4**	<3.0
07/07/14	**80**		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		**690**	<25
07/07/15	**300**		<52	<13	<52	<19	<160	<42	<13	<42	<29	<42	<63	<28	<63		**3,300**	<14
07/11/16	**710**		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		**6,600**	<24
7/11/2016 Duplicate	**660**		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		**6,400**	<24
07/17/17	**490**		<12	<50	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		**5,100**	<24
07/19/18	**68 Q**		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		**1,100**	<26
7/19/2018 Duplicate	**80 Q**		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		**1,100**	<13
7/16/2019	**87**		<12	<11	<13	<10 Q	<15	<11	<12	<10	<11	<12	<15	<11	<12		**410**	<13

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**7.9**	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/17/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4.2**		<3	<3.0
01/30/01	<3.0		**13**	<3.0	<3.0	<3.0	**15**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**5.7**		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/24/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.3**	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5 Q	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6 Q	<0.78	<1.1		<1.1 Q	<0.49
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/19	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W33

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	Pentachlorophenol	Phenol
08/07/02	**2,000**		<750	<750	<750	**1,000**	<750	**880**	**6,500**	**6,100**	**2,300**	**3,000**	<750	<750	<750	**9,600**	**7,100**
07/24/03	**4,000**		<1500	<1500	**1600**	<1500	<1500	<1500	<1500	**3,300**	**1,600**	**2,900**	<1500	<1500	<1500	**13,000**	<1500
07/14/04	<1500		<1500	<1500	**3900**	**1500J**	**4,000**	<1500	<1500	**9,000**	**3,300**	**6,200**	<1500	<1500	<2000	**28,000**	**23,000**
07/21/05	**1400 V**		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**6200 V**	**2800 V**	**16000 V**	**2400 V**	**600 V**	<600 V	<600 V	**8600 V**	<600 V
01/23/07	**5,700**		<3000	<3000	<3000	<3000	<3000	<3000	<3000	**7,300**	**66,000**	<3000	<3000	<3000	<3000	**30,000**	**33,000**
07/11/07	**3,100**		<410	<490	<330	<250	<500	<630	<340	<150	<300	<270	<370	<160	<300	**18,000**	<130
07/24/08	**1,900**		<450	<490	<350	<680	<910	<520	<390	<490	<340	<380	<530	<630	<350	**16,000**	<180
07/07/09	**900**		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130	**7,200**	<63
01/19/10	**630**		<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130	**2,500**	<64
07/15/10	**970**		<220	<200	<200	<160	<300	<240	<170	<170	<180	<280	<320	<150	<220	**7,200**	<96
01/26/11	**580**		<230	<210	<210	<170	<320	<250	<180	<180	<190	<290	<340 Q	<160	<230	**5,700**	<100
07/25/11	**150**		<1.1	<1.0	<1.0	<0.83	<1.5	<1.2	<0.88	<0.87	<0.91	<1.4	<1.6	<0.77	<1.1	**2,100**	<0.48
01/23/12	**990**		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57	**9,100**	<25
07/09/12	**530**		<12	<11	<11	<8.8	<16	<13	<9.4	<9.2	<9.7	<15	<17	<8.2	<12	**3,700**	<5.2
01/08/13	**1,000**		<220	<200	<200	<170	<310	<240	<180	<180	<180	<290	<330	<160	<220	**7,800**	<98
07/08/13	**360**		<220	<200	<200	<170	<300	<240	<180	<170	<180	<280	<320	<150	<220	**3,000**	<97
01/22/14	**760**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230	**5,900**	<99
07/07/14	**370**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230	**3,200**	<99
01/15/15	**1,500**		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120	**8,800**	<27
07/09/15	**220**		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120	**1,700**	<27
01/14/16	**660**		<110	<26	<110	<38	<320	<85	<26	<85	<60	<85	<130	<57	<130	**4,200**	<28
07/12/16	**430**		<25	<110	<27	<42	<61	<84	<25	<32	<25	<36	<63	<29	<42	**3,300**	<51
01/19/17	**2,000**		<48	<200	<53	<81	<120	<160	<48	<61	<48	<69	<120	<57	<81	**14,000**	<97
07/18/17	**1,200**		<32	<130	<35	<54	<78	<110	<32	<40	<32	<46	<81	<38	<54	**7,400**	<65
01/11/18	**1,500**		<120	<110	<130	<100	<150	<110	<120	<100	<110	<120	<150	<110	<120	**10,000**	<130
07/19/18	**430 Q**		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11	**2,800**	<12
01/28/19	**1,100**		<44	<40	<50	<38	<56	<40	<46	<38	<40	<44	<58	<42	<46	**8,000**	<50
07/15/19	**30**		<46	<42	<53	<40	<59	<42	<48	<40	<42	<46	<61	<44	<48	**1,500**	<53

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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		**7,180**	<0.5
08/03/92		<1		<10	**11.3**	<0.5	<10		<5		<5		<1	<0.5	<1		**14,800**	155
09/17/92		**26**		<1	**132**	**29.2**	**15.2**		<0.5		**240**		<1	<0.5	**67**		**8,350**	<0.5
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	**1,700**	<1000
07/10/96	<500		<500	<500	<500	<500	<1000	<500	<500	<500	<500	<1000	<500	<500	<1000	<500	**1,800**	<500
07/11/97	**120**		**94**	**71**	**480**	**210**	**660**	**430**	<0.194	**1400**	**1200**	**440**	<0.362	**240**	**110**		**1,600**	**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	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**67.0**	<30
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**
01/31/01	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**360**	<30
07/11/01	**11**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**3.6**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**120**	<3.0
01/15/02	**5.5**		<3.0	**3.5**	<3.0	<3.0	<3.0	<3.0	**12**	**6.8**	<3.0	**4.1**	<3.0	<3.0	<3.0		**43**	**3.7**
08/06/02	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		**31**	<30
01/15/03	**14**		<3.0	<3.0	**5.9**	**4.2**	**4.6**	<3.0	<3.0	<3.0	**8.9**	<3.0	<3.0	<3.0	<3.0		**140**	<3.0
07/22/03	**4.2**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**3.2**	<3.0	<3.0	<3.0	<3.0	<3.0		**43**	**11**
01/21/04	**3.1J**		<3.0	<3.0	<3.0J	<3.0	<3.0	<3.0	3.9	**4.4**	<3.0	<3.0	<3.0J	<3.0	<3.0J		**45**	**3**
07/14/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0J	<3.0	**5.4**	<3.0J	<3.0J	<3.0	<3.0	<4.0		**65**	**22**
01/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**5**	<3.0	**8.2**	**3.1 J**	<3.0	<3.0	<3.0		**24**	**4.5**
07/21/05	6.5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4.9**	<3.0	**4.9**	**<3.0**	<3.0	<3.0	<3.0		**81**	**21**
01/18/06	**8.5 V**		<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V		**89 V**	<6.0 V
07/18/06	<6.0		<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0		**16**	<6.0
01/23/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**11**	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**11**	<3.0
7/10/2007 Duplicate	**3**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**42**	<3.0
01/29/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**8.1**	<3.0
1/29/2008 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**8.2**	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**4.1**	<3.0
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
1/20/2009 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**8.6**	<3.0

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/24/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3**	<3.0
07/19/11	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**7.8**	<0.49
01/18/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.1**	<3.0
01/07/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**1.2**	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**3.6**	<3.0
07/09/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**6.8**	<3.0
07/07/15	**1.1**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**15**	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**5**	<3.0
07/11/17	**2.0**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**31**	<3.0
07/12/18	**2.8**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**29**	<3.0
07/09/19	**0.74**		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		**10**	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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**		**9,290**	<25.8
12/18/92		**403**		**267**	**1,710**	<50	<100		<50		<50		<100	<50	**178**		**13,900**	<50
06/21/94	**2,900**		**1,000**	**3,500**	**6,900**	**2,700**	**420**	**1,500**		<100	**5,200**	**8,400**	**310**	**550**	**1,300**	<100	**6,900**	
03/10/95	<1000		<2000	<1000	<1000	**1,500**	<2000	<1000		**3,600**	**10,000**	**3,100**	<1000	<1000	<2000	<1000	**3,700**	
09/13/95	<1000		<1000	<1000	<1000	**1,500**	<2000	<1000	<1000	**3,300**	<1000	<2000	<1000	<1000	<2000	<1000	**1,200**	<1000
12/18/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	**2,100**	**2,800**	**4,400**	<1000	<1000	<2000	<1000	**2,400**	<1000
03/20/96	<1000		<1000	<1000	**1,100**	**1,500**	<2000	<1000	**5000**	**2,300**	**6,700**	<2000	<1000	<1000	<2000	<1000	**1,900**	**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	**2,800**	<0.148	<0.269	**3,400**	<0.194	**3,800**	**3,300**	<0.128	<0.362	<0.105	<0.351		**2,300**	**3600**
01/02/98	<0.182		<0.453	**310**	**2,600**	<0.148	**2,400**	**710**	**2400**	**3,800**	**2,200**	<0.128	**840**	**1,200**	<0.351		**1,100**	<0.127
06/24/98	<150		<150	<150	<150	<150	<150	**400**	**640**	**510**	**320**	<150	<150	<150	<150		**830**	**2800**
06/09/99	<150		<150	<150	<150	<150	<150	<150	**510**	<150	**180**	<150	<150	<150	<150		**1,800**	**560**
07/19/00	<1500		<1500	<1500	**3,200**	<1500	<1500	**3,900**	**10000**	**4,200**	**5,200**	**8,900**	<1500	<1500	**3,300**		**3,300**	**13000**
08/06/02	**300**		**270**	**230**	**1,200**	**1,600**	**230**	**2,600**	**2,100**	**2,300**	**3,100**	**6,100**	<150	**190**	<150		**750**	**5,300**
01/15/03	**240**		<150	<150	**720**	**300**	<150	<150	<150	**1400**	**1500**	**1200**	<150	<150	<150		**510**	<150
07/22/03	**1,100**		<150	<150	<150	<150	<150	<150	**190**	**210**	<150	**180**	<150	<150	<150		**820**	<150
01/20/04	<150		<150	<150	<150J	<150	<150	<150	**290**	**510**	<150J	**210J**	<150	<150	<150J		**550**	**230**
07/14/04	<300		**300J**	<300J	<300J	**420J**	**630**	<300	**450J**	**4,800**	**1,100**	**1,400**	<300J	<300	<400		**1,000**	**3,200**
01/20/05	<150 V		<150 V	<150 V	<150 V	<150 V	<150 V	<150 V	**710 V**	**350 V**	**1400 V**	**360 V**	<150 V	<150 V	<150 V		**1200 V**	**340 V**
07/20/05	<60 V		<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	**<60 V**	**<60 V**	**<60 V**	**<60 V**	<60 V	<60 V	<60 V		**330 V**	**<60 V**
01/17/06	130 V		<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	**150 V**	**<60 V**	**250 V**	**<60 V**	<60 V	<60 V	<60 V		**1600 V**	**<60 V**
07/19/06	77		<60 V	<60	<60	100	<60	<60	**460**	**110**	**1,600**	**200**	**77**	<60	<60		**820**	**480**
01/23/07	**950**		<300	<300	<300	<300	<300	<300	<300	**350**	**3,200**	<300	<300	<300	<300		**8,200**	**1,200**
07/11/07	**260**		<73	<86	<58	<43	<88	<110	<61	**<26**	**<54**	<47	<65	<27	<53		**2,600**	**<22**
01/28/08	**63**		<29	<34	<23	<17	<35	<44	<24	<11	<21	<19	<26	<11	<21		**960**	<8.9
07/24/08	**630**		<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63		**4,100**	<32
01/21/09	**120**		<45	<49	<35	<69	<92	<53Q	<39	<50	<34	<39	<53	<63	<36		**1,300**	<18
07/07/09	**310**		<81	<89	<63	<120	<160	<95	<70	<90	<62	<69	<96	<110	<64		**3,400**	<32
01/19/10	**150**		<40	<43	<31	<61	<81	<46	<34	<44	<30	<34	<47	<56	<31		**910**	<16
1/19/2010 Duplicate	**130**		<40	<43	<31	<61	<81	<46	<34	<44	<30	<34	<47	<56	<31		**740**	<16
07/14/10	**1,600**		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		**9,100**	<25
01/25/11	**1,100**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230		**7,300**	<100
1/25/2011 Duplicate	**1,100**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230		**6,900**	<99
04/06/11																	**4,000**	
07/25/11	**520**		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		**3,700**	<0.49
10/03/11																	**3,500**	

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/17/12	**220**		<60	<54	<54	<45	<82	<65	<47	<47	<49	<76	<87	<41	<60		**3,800**	<26
1/17/2012 Duplicate	**140**		<56	<51	<51	<41	<76	<61	<44	<43	<45	<71	<81	<38	<56		**2,500**	<24
04/03/12																	**2,200**	
07/10/12	**110**		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		**1,200**	<4.8
01/04/13	**140**		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		**2,300**	<49
1/4/2013 Duplicate	<110		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		**1,800**	<50
07/08/13	<110		<110	<100	<100	<83	<150	<120	<88	<87	<91	<140	<160	<77	<110		**1,000**	<48
01/21/14	**170**		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		**2,700**	<49
07/08/14	<110		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		**1,100**	<49
01/15/15	<100		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		**1,600**	<13
07/09/15	**54**		<10	<3.0	<10 M	<3.7	<31 M	<8.2	<3.0	<8.2	<5.8 M	<8.2	<12 MY	<5.6	<12		**970 M**	<3.0
01/14/16	<100		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		**1,600**	<13
07/07/16	**33**		<3.0	<10.0	<3.0	<4.0	<5.9	<8.1	<3.0	<3.0	<3.0	<3.4	<6.1	<3.0	<4.0		**790**	<4.8
01/19/17	**96**		<6.2	<26	<6.7	<10	<15	<21	<6.2	<7.7	<6.2	<8.8	<15	<7.2	<10		**1,700**	<12
07/11/17	**40**		**3.0**	<10	<3.0	<4.0	<5.9	<8.1	<3.0	<3.0	<3.0	<3.4	<6.1	<3.0	<4.0		**800**	<4.8
01/09/18	**53**		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		**980**	<13
07/12/18	**26**		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11		**620**	<12
01/21/19	**30**		<4.4	<4.0	<5.0	<3.8	<5.6	<4.0	<4.6	<3.8	<4.0	<4.4	<5.8	<4.2	<4.6		**720**	>5.0
1/21/2019 Duplicate	**33**		<4.4	<4.0	<5.0	<3.8	<5.6	<4.0	<4.6	<3.8	<4.0	<4.4	<5.8	<4.2	<4.6		**720**	<5.0
7//2019																		

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.
2.) Bold Values indicate detections
3.) J = Estimated Value
4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
5.) Q = Laboratory Control Sample outside acceptance limits.
6.) Y = Replicate/Duplicate precision outside acceptance limits.
7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W40-W40R

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
01/19/10	**650**		<16	<18	<13	<25	<33	<19	<14	<18	<13	<14	<19	<23	<13		**6,400**	<6.5
07/15/10	**1,100**		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		**8,100**	<49
01/25/11	**1,400**		<560	<510	<510	<420	<770	<610	<440	<440	<460	<710	<820 Q	<390	<560		**13,000**	<240
07/25/11	**630**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		**6,400**	<99
01/18/12	<590		<12	<11	<11	<8.7	<16	<13	<9.3	<9.1	<9.6	<15	<17	<8.1	<12		**6,200**	<5.1
07/09/12	**900 M**		<11	<10	<10	<8.4	<15 M	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11 M		**10,000 M**	<4.9
01/07/13	**510**		<230	<210	<210	<170	<320	<260	<190	<180	<190	<300	<340	<160	<230		**4,400**	<100
07/08/13	**900**		<280	<250	<250	<210	<380	<300	<220	<220	<230	<350	<400	<190	<280		**8,300**	<120
01/21/14	**750**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		**7,800**	<99
07/08/14	**690**		<560	<510	<510	<410	<760	<610	<440	<430	<450	<710	<810	<380	<560		**8,500**	<240
01/15/15	**1,000**		<130	<31	<130	<46	<390	<100	<31	<100	<72	<100	<150	<70	<150		**10,000**	<34
07/09/15	**590**		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120		**6,800**	<27
01/19/16	**1,300**		<130	<30	<130	<45	<380	<100	<30	<100	<71	<100	<150	<68	<150		**12,000**	<33
07/12/16	**830**		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		**9,500**	<48
01/19/17	**940**		<49	<200	<53	<82	<120	<160	<49	<61	<49	<69	<120	<57	<82		**11,000**	<98
07/18/17	**1,700**		<60	<250	<65	<100	<150	<200	<60	<75	<60	<85	<150	<70	<100		**19,000**	<120
01/15/18	**950**		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		**10,000**	<13
07/19/18	**900 Q**		<59	<54	<66	<51	<74	<54	<61	<51	<54	<59	<77	<56	<61		**9,600**	<66
01/28/19	**670**		<45	<41	<51	<39	<57	<41	<47	<39	<41	<45	<59	<43	<47		**7,400**	<51
07/18/19	**120**		<23	<21	<26	<20 Q	<29	<21	<24	<20	<21	<23	<30	<22	<24		**2,000**	<26

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

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	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		**8,610**	<10
06/16/92		**441**		**703**	**227**	**60.9**	**170**		<5.1		**143**		<51	**44.1**	<51		**16,600**	<5.1
09/17/92		<1		<1	<0.5	<0.5	223		<0.5		<0.5		<1	<0.5	**109**		**6,070**	<0.5
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		**16,400**	<0.5
03/24/93		<8000		<2400	<800	<800	<2400		<800		<800		<4000	<4000	<4000		**14,300**	<800
06/30/93	**3,600**		<200	<100	<100	<100	<200	**3,600**		<100	<100	<200	<100	**1,600**	<200	<100	**32,000**	
12/28/93	**710**		<200	**150**	**320**	**260**	<200	**140**		**180**	**150**	<200	<100	<100	<200	<100	**9,500**	
04/25/94	**1,000**		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	**12,000**	
06/21/94	**930**		**980**	**820**	**430**	**110**	**1100**	**210**		<100	**330**	<200	**230**	**250**	**500**	<100	**4,900**	
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	**3,600**	
07/06/95	**480**		<11	<11	<11	<11	<53		<11	<10.65	<11	<21.3	<53	<21	<53	<27	**3,400**	<11
09/13/95	<1000		<1000	**3,400**	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	**9,600**	<1000
03/20/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	**7,000**	<1000
07/09/96	<2500		<2500	<2500	<2500	<2500	<5000	<2500	<2500	<2500	<2500	<5000	<2500	<2500	<5000	<2500	**10,000**	<2500
09/25/96	**1,130**		<7.3	<7.1	<8	<15	<7.2	<8.7	<12	<7.9	<15	<17	<7.5	<6.9	<7.4	<8.5	**13,800**	<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		**18,000**	<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		**3,700**	<0.127
06/24/98	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**5,200**	<600
01/26/99				**690**		**820**		**730**		**890**	**760**			**630**			**6,700**	**1,500**
06/08/99	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**5,800**	<600
01/11/00	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**7,800**	<600
07/19/00	<150		**330**	<150	<150	<150	**250**	<150	<150	<150	<150	**170**	<150	<150	**240**		**3,500**	**320**
01/31/01	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**7,600**	<600
07/11/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		**2,200**	<1500
01/15/02	**150**		<60	**120**	<60	<60	**74**	<60	**180**	**120**	**140**	**79**	**73**	**66**	**94**		**1,100**	<60
08/06/02	<300		<300	**370**	<300	<300	<300	<300		<300	<300	<300	<300	<300	<300		**3,100**	
01/14/03	**610**		**600**	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		**7,200**	<600
07/22/03	**280**		<150	**220**	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		**4,300**	**160**
01/20/04	**190J**		<150J	<150	<150J	<150	<150	<150	**270**	<150J	<150	<150J	<150	<150	<150J		**3,500**	<150
07/13/04	**<300**		780	<300	<300J	<300	930	<300	**<300**	<300	<300	<300	<300	<300J	<400		**5,900**	380
01/19/05	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**3700 V**	<300 V
07/19/05	**390 V**		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**5900 V**	320 V
01/17/06	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		**3900 V**	<300 V
07/19/06	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		**4,300**	<300
01/23/07	**150**		<60	<60	<60	<60	<60	<60	<60	<60	<60	**64**	<60	<60	<60		**1,700**	**92**
07/10/07	**180**		<38	<44	<30	<22	<45	<57	<31	<14	<28	<24	<33	<14	<27		**2,000**	<11
01/28/08	**150**		<80	<94	<63	<48	<97	<120	<67	<29	<59	<52	<71	<30	<58		**2,800**	<24
07/24/08	**630**		<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130		**6,500**	<64
01/21/09	**250**		<83	<91	<64	<130	<170	<97Q	<72	<92	<63	<71	<98	<120	<65		**4,400**	<33
1/21/2009 Duplicate	**230**		<83	<91	<64	<130	<170	<97Q	<72	<92	<63	<71	<98	<120	<65		**4,000**	<33
07/07/09	**140**		<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63		**2,800**	<32

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	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/19/10	**230**		<85	<92	<66	<130	<170	<99	<73	<94	<65	<72	<100	<120	<67		**2,000**	<33
07/14/10	**72**		<44	<40	<40	<33	<61	<48	<35	<35	<36	<57	<65	<31	<44		**1,200**	<19
01/25/11	**150**		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170 Q	<79	<110		**2,400**	<50
04/05/11																	**1,900**	
07/20/11	**64**		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	**18**	<1.6	<0.78	<1.1		**790**	<0.49
10/03/11																	**1,500**	
01/17/12	**140**		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		**2,700**	<25
04/03/12																	**7,600**	
07/10/12	**190 V**		<5.6 V	<5.1 V	<5.1 V	<4.2 V	<7.7 V	<6.1 V	<4.4 V	<4.4 V	<4.6 V	<7.1 V	<8.2 V	<3.9 V	<5.6 V		**980 V**	<3.0 V
01/04/13	**310**		<110	<100	<100	<83	<150	<120	<88	<87	<91	<140	<160	<77	<110		**3,300**	<48
07/05/13	**820**		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		**6,600**	<50
01/21/14	**380**		<120	<110	<110	<86	<160	<130	<92	<91	<95	<150	<170	<80	<120		**4,400**	<51
07/09/14	**850**		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		**8,300**	<99
01/15/15	**460**		<100	<25	<100	<38	<310	<83	<25	<83	<58	<83	<130	<56	<130		**8,500**	<27
07/08/15	**430**		<100	<24	<100	<37	<310	<82	<24	<82	<57	<82	<120	<55	<120		**8,800**	<27
01/14/16	**260**		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120		**5,200**	<27
07/12/16	**140**		<24	<100	<27	<41	<59	<82	<24	<31	<24	<35	<61	<29	<41		**6,000**	<49
01/19/17	**110**		<13	<52	<14	<21	<30	<42	<13	<16	<13	<18	<31	<15	<21		**2,600**	<25
07/18/17	**110**		<24	<100	<27	<41	<59	<82	<24	<31	<24	<35	<61	<29	<41		**4,100**	<49
01/11/18	**100**		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		**2,700**	<26
07/18/18	**100 Q**		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		**2,900**	<26
01/24/19	**66**		<23	<21	<25	<20	<28	<21	<24	<20	<21	<23	<29	<22	<24		**2,600**	<25
07/15/19	**26**		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		**670**	<26

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W69

Date	2,3,4,6-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	Pentachlorophenol	Phenol
07/24/03	**2,100**	<1500	<1500	<1500	<1500	<1500	<1500	**4,700**	**2,500**	<1500	**2,600**	<1500	<1500	<1500	**14,000**	**8,600**
01/21/04	**6,700**	<3000	<3000	<3000J	<3000	<3000J	<3000	**19,000**	**11,000**	<3000	<3,000J	<3000	<3000	<3,000J	**64,000**	**19,000**
07/14/04	**870J**	<600	<600	<600J	<600	**1,300**	<600	<600	**1,200**	<600J	<600J	<600	<600	<800	**9,600**	**3,900**
01/20/05	**1,300 V**	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	**2,200 V**	**910 V**	**3,100 V**	**770 JV**	<600 V	<600 V	<600 V	**11,000 V**	**1500 V**
01/23/08	**630**	<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130	**6,500**	<64
07/24/08	**1,100**	<160	<180	<130	<250	<330	<190	<140	<180	<130	<140	<190	<230	<130	**10,000**	<65
01/21/09	**1,000**	<170	<180	<130	<250	<340	<190Q	<140	<180	<130	<140	<200	<230	<130	**9,800**	<65
01/26/11	**520**	<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230	**6,200**	<99
07/25/11	**570**	<1.1	<1.0	<1.0	<0.83	<1.5	<1.2	<0.88	<0.87	<0.91	<1.4	<1.6	<0.77	<1.1	**4,300**	<0.48
01/18/12	**340 M**	<12	<11	<11	<8.6	<16 M	<13	<9.2 MY	<9.1 Y	<9.5 M	<15	<17 MY	<8	<12 M	**4,100 M**	<5.1 Y
07/10/12	**140**	<5.6	<5.1	<5.1	<4.1	<7.6	<6.1	<4.4	<4.3	<4.5	<7.1	<8.1	<3.8	<5.6	**1500**	<3.0
01/07/13	**560**	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	**8,900**	<49
07/08/13	**430**	<120	<110	<110	<88	<160	<130	<94	<92	<97	<150	<170	<82	<120	**5,000**	<52

Notes: Prepared By: T. Dushek, 8/5/13 Checked By: A. Voit, 9/21/13

1.) All units are in ug/L.
2.) Bold Values indicate detections
3.) J = Estimated Value
4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits
5.) Q = Laboratory Control Sample outside acceptance limits.
6.) Y = Replicate/Duplicate precision outside acceptance limits.
7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interferenc
8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW5

Date	Pentachlorophenol
01/19/10	**5.3**
07/13/10	<3
01/25/11	**6.6**
07/15/11	<1.1
01/17/12	<3
07/02/12	**4.4**
01/08/13	<3
07/10/13	<3
01/20/14	**2.0**
07/15/14	<3
01/19/15	**2.0**
07/08/15	<3
01/15/16	<3
07/11/16	**0.55**
01/23/17	**2.10**
07/20/17	**0.55 B**
01/09/18	<3.0
07/16/18	**2.60**
01/21/19	<3.0
07/16/19	**2.0**

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) B = Analyte detected in the associated Method Blank

4.) J = Estimated Value

5.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

6.) Q = Laboratory Control Sample outside acceptance limits.

7.) Y = Replicate/Duplicate precision outside acceptance limits.

8.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW9

Date	Pentachlorophenol
01/19/10	**160**
07/13/10	**45**
07/13/10 Duplicate	**58**
01/25/11	**210**
07/15/11	**98**
01/17/12	**95**
07/02/12	**130**
01/08/13	**77**
07/10/13	**200**

Notes: Prepared By: T. Dushek, 8/5/13 Checked By: A. Voit, 9/21/13

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW10A

Date	Pentachlorophenol
01/19/10	**3,200**
01/19/10 Duplicate	**3,300**
07/15/10	**1,500**
01/25/11	**1,800**
07/15/11	**610**
01/17/12	**2,300**
07/02/12	**590**
01/08/13	**1,800**
07/10/13	**950**

Prepared By: T. Dushek, 8/5/13 Checked By: A. Voit, 9/21/13

Notes:

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW11

Date	Pentachlorophenol
01/19/10	**3,900**
07/13/10	**4,800**
01/25/11	**3,100**
07/15/11	**5,000**
01/17/12	**2,200**
07/02/12	**4,200**
7/2/2012 Duplicate	**4,000**
01/08/13	**3,300**
07/10/13	**580**
01/20/14	**2,400**
1/20/14 Duplicate	**3,000**
07/15/14	**5,800**
01/19/15	**3,100**
07/08/15	**5,300**
01/15/16	**3,100**
07/11/16	**2,900**
01/23/17	**2,800**
07/20/17	**810**
01/09/18	**1,300**
07/16/18	**4,100**
01/21/19	**890**
07/16/19	**240**

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW12

Date	Pentachlorophenol
01/19/10	**3,600**
07/13/10	**2,600**
01/25/11	**7,900**
1/25/2011	
Duplicate	**7,300**
07/15/11	**4,800**
7/15/2011	
Duplicate	**3,000**
01/17/12	**7,600**
1/17/2012	
Duplicate	**8,400**
07/02/12	**9,500**
01/08/13	**5,400**
1/8/2013	
Duplicate	**5,500**
07/10/13	**6,100**
7/10/2013	
Duplicate	**5,800**
07/15/14	**5,200**
7/15/2014	
Duplicate	**6,100**
01/19/15	**10,000**
1/19/2015	
Duplicate	**10,000**
07/08/15	**4,500**
7/8/2015	
Duplicate	**4,500**
01/19/16	**5,900**
07/11/16	**4,900**
7/11/2016	
Duplicate	**4,800**
01/23/17	**5,000**
1/23/2017	
Duplicate	**4,500**
07/20/17	**2,300**
7/20/2017	
Duplicate	**2,800**
01/09/18	**2,400**
1/9/2018	
Duplicate	**2,600**
07/16/18	**2,300**
7/16/2018	
Duplicate	**1,700**
01/21/19	**3,300**
1/21/2019	
Duplicate	**3,500**
07/16/19	**400**
7/16/2019	
Duplicate	**390**

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.
2.) Bold Values indicate detections
3.) J = Estimated Value
4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
5.) Q = Laboratory Control Sample outside acceptance limits.
6.) Y = Replicate/Duplicate precision outside acceptance limits.
7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W71

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0
01/09/18	<3.0
07/10/18	<3.0
01/21/19	<3.0
07/15/19	**2.1**

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W72

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0
01/30/18	<3.0
07/10/18	<3.0
01/21/19	<3.0
07/11/19	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W73

Date	2,3,4,6-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	Pentachlorophenol	Phenol
07/06/15															<3.0	
01/15/16															<3.0	
07/01/16															<3.0	
01/23/17															<3.0	
07/10/17															<3.0	
01/30/18															<3.0	
07/10/18															<3.0	
01/22/19	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
07/11/19	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data
WAULECO, INC - Wausau Facility
Well - W74

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0
01/09/18	<3.0
07/10/18	<3.0
01/21/19	<3.0
07/11/19	<3.0

Notes: Prepared By: T. Dushek, 8/20/19 Checked By: A. Voit, 11/27/19

1.) All units are in ug/L.

2.) Bold Values indicate detections

3.) J = Estimated Value

4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.

5.) Q = Laboratory Control Sample outside acceptance limits.

6.) Y = Replicate/Duplicate precision outside acceptance limits.

7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

B3

Volatile Organic Compounds

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W01A

Parameter	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	01/31/01	07/09/01	08/06/02	07/22/03	07/13/04	07/21/05	07/18/06	07/11/07	07/23/08	07/06/09	07/13/10	07/19/11	07/06/12	07/05/13	07/07/14	07/07/15	07/06/16	07/11/17	07/12/18	07/09/19
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.2	<0.2	<0.2	<4	**<0.20**	<2.0	<0.90	<1.8	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	5	50	5	1	1	1	1	<1.5	1.0	0.3	0.3	0.3	3	**0.54**	<1.5	<0.50	<1.0	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	**1.5**	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.80	<1.6	<0.80	<0.15	<0.13	<0.14	**3.5**	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<2	<0.10	<1.0	<0.90	<1.8	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<9	<0.20	<4.5	<0.40	<0.80	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<5	<0.30	<2.5	<0.50	<1.0	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<3	<0.10	<1.5	<0.80	<1.6	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<5	<0.30	<2.5	<0.50	<1.0	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene				**140**	**430**	**68**	**320**		**89.6**	**300**	**290**	**100**	**130**	**2.8**	**180**	**45**	**34**	**18**	<0.40	**15**	**3**	**3.8**	**23**	**16**	**16**		**18**	**9**	**8.1**	**8**	**5.5**	**16**	**4.1**
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<3	<0.40	<1.5	<0.40	<0.80	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<3	<0.10	<1.5	<0.30	<0.60	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3	<0.20	<1.5	<0.70	<1.4	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.90	<1.8	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<8	<0.10	<4.0	<0.40	<0.80	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<3	<0.20	<1.5	<0.40	<0.80	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene				**38**	**110**	**21**	**130**		**14.4**	**130**	**140**	**150**	**97**	**0.45**	**97**	**35**	**21**	**10**	<0.50	**12**	**2.3**	**2.5**	**27**	**17**	**16**								
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<2	<0.10	<1.0	<0.60	<1.2	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane				<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<4	<0.10	<2.0	<1.2	<2.4	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<5	<0.10	<2.5	<0.70	<1.4	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<2	<0.20	<1.0	<0.60	<1.2	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10	<100	<10																<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether								<10																									
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<4	<0.10	<2.0	<0.60	<1.2	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10	<100	<10																<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<3	<0.20	<1.5	<0.60	<1.2	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10																<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<10	**2230**	**11.7**																<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<1	<0.10	<0.5	**0.51**	<0.80	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<5	<0.10	<2.5	<0.50	<1.0	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<2	**0.20**	<1.0	<0.40	<0.80	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<1	<0.20	<0.5	<0.60	<1.2	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<4	<0.40	<2.0	<0.80	<1.6	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene				**34**	**130**	**28**	**140**		**15.2**	**160**	**180**	**150**	**170**	**0.32**	**31**	**70**	**48**	**18**	14	**11**	**2.2**	<0.24	**16**	**6.7**	**7.9**								
sec-Butylbenzene				**12**	**24**	**8.7**	**32**		**3.8**	**14**	**48**	**31**	**18**	**4.2**	<0.5	**12**	**5.6**	**3.8**	8	**5.7**	**2.8**	**2.4**	**4.5**	**5.2**	**2.9**								
tert-Butylbenzene				<1	<1	<1	**48**		<1	<0.3	<0.3	<0.3	<1	**1.3**		<0.50	<1.0	<0.50	5.6	**3.3**	**1**	**1.4**	**3**	**2.3**	**1.9**								

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W01A

Parameter	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	01/31/01	07/09/01	08/06/02	07/22/03	07/13/04	07/21/05	07/18/06	07/11/07	07/23/08	07/06/09	07/13/10	07/19/11	07/06/12	07/05/13	07/07/14	07/07/15	07/06/16	07/11/17	07/12/18	07/09/19
Carbon disulfide	<5	<50	<5												**170**				<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<3	<0.10	<1.5	<0.60	<1.2	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3	<0.10	<1.5	<0.80	<1.6	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Dibromochloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<4	**<0.20**	<2.0	<0.40	<0.80	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<5	**0.58**	<2.5	<0.50	<1.0	<0.50	<0.70	**1.2**	**0.48**	**1.2**	<0.40	<0.40	<0.30								
Chloroform	**6.19**	<50	<5	**5.2**	**5.2**	**4.2**	**1.4**	**1.1**	**2.3**	<0.2	<0.2	<0.2	<5	**4.2**	<2.5	<0.60	<1.2	<0.60	**1.3**	**0.61**	**0.41**	**0.23**	<0.22	**0.57**	<0.23								
Chloromethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<3	**0.27**	<1.5	<0.40	<0.80	<0.40	<0.24	**0.32**	<0.30	<0.30	**0.56B**	<0.40	<0.40								
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane				<2	<2	<2	<2		<2	<0.3	<1.2	<1.2	<5	<0.10	<2.5	<0.50	<1.0	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether					<1							<0.3	<1	<0.10	<0.5	<0.50	<1.0	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<1	<0.10	<0.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<6	<0.20	<3.0	<0.50	<1.0	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene				**26**	**25**	**4.2**	**27**		**3.1**	<0.2	**38**	**12**	<1	**0.47**	**16**	**6.1**	**1.1**	**2**	<0.40	<0.60	<0.20	**0.91**	**0.31**	<0.18	<0.30								
p-Isopropyltoluene				<1	**39**	**9.7**	**50**		**4.0**	**24**	**67**	**60**	**34**	**0.89**	**47**	**18**	**11**	**5**	<0.40	**15**	**3.2**	**3.4**	**15**	**11**	**10**								
Methyl tert-butyl ether					<1							<0.2	<11	<0.30	<5.5	<0.50	<1.0	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<5	**116**	**14.1**	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<19	<0.40	<9.5	<1.0	<2.0	**3** J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<11	<10	<10	**6**	**38**	**4.2**	**19**	**2.9**	**3.8**	<0.8	**17**	**7.5**	<7	**0.89**	**6.9 e**	**0.95**	<1.0	**0.95** J	<0.60	<0.70	<0.60	<0.60	**1.3**	<0.40	<0.40	<0.31	**2.7**	**1.5**	**1.3**	**1.2**	**1.1**	**1.9**	**1.1**
n-Propylbenzene				**7**	**25**	**5.2**	**23**		**5.0**	<0.3	**76**	**10**	<3	**0.47**	**15**	**6**	**2.4**	**1.9**	<0.40	**0.57**	**0.26**	**0.27**	**0.61**	**0.5**	**0.4**								
Styrene	<5	<50	<5	**4.4**		<1	<1		<1	<0.2	<0.2	<0.2	<2	<0.10	<1.0	**14**	**4.5**	**4.7**	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<50	<5	<1	<1	<1	**6.3**	<1	<1	<0.3	<0.6	<0.6	<4	<0.10	<2.0	**4.7**	**1.5**	**1.6**	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran																			0.60	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<1	<0.20	<0.5	**0.95**	<1.0	<0.50	<7.0	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<3	<0.20	<1.5	<0.60	<1.2	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<4	<0.20	<2.0	<0.40	<0.80	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10	<100	<10																<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<4	<0.10	<2.0	<0.30	<0.60	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-				<2	**15**	**2.8**	**15**	<2	**4.6**	<0.4	**24**	<0.3	<2	<0.20	**4.4**	**2.5**	<1.2	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	**0.81**	<0.80	<0.80	<0.80
Xylene, o-				**8.9**	**30**	**6.3**	**49**	**1.4**	**7.4**	<0.2	<0.5	**24**	<1	**0.16**	<0.5	<0.50	<1.0	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		**4.2**	**1.7**	**2**	**2.3**	**1.8**	**2.4**	<0.40
Xylenes, Total	**5.88**	<50	**18.3**																	<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		**4.2**	**1.7**	**2**	**3.11**	**1.8**	**2.4**	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
* = Suspected methylene chloride laboratory contamination.

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

Parameter	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	07/22/03	07/14/04	07/21/05	7/21/2005 duplicate	07/15/10	07/20/11	07/09/12	7/9/2012 Duplicate	7/8/2013	7/16/2014	7/8/2015	7/7/2016	7/7/2016 Duplicate	7/13/2017	7/13/2017 Duplicate	7/12/2018	7/12/2018 Duplicate	7/11/2019	7/11/2019 Duplicate
1,1,1,2-Tetrachloroethane				<1	<1		<10	<0.1	<0.3	<18	<18	<25	<25	<4.8	<4.0													
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<10	<10	<30	<30	<4.2	<2.9													
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<16	<16	<7.5	<7.5	<3.8	**4.5**													
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<20	<10	<1	<0.2	<18	<18	<20	<20	<5.2	<3.0													
1,1-Dichloroethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<10	<10	<25	<25	<4.0	<2.8													
1,1-Dichloroethene	<5	<50	<5	<1	<1	<20	<10	<0.4	<0.2	<8.0	<8.0	<25	<25	<4.8	<2.9													
1,1-Dichloropropene				<1	<1		<10	<0.2	<0.3	<10	<10	<25	<25	<4.8	<4.0													
1,2,3-Trichlorobenzene				<1	<1		<10	<0.5	<0.4	<10	<10	<30	<30	<6.0	<4.0													
1,2,3-Trichloropropane				<1	<1		<10	<0.3	<0.2	<16	<16	<30	<30	<4.2	<4.0													
1,2,4-Trichlorobenzene				<1	<1		<10	<0.5	<0.3	<10	<10	<35	<35	<6.0	<3.0													
1,2,4-Trimethylbenzene				**490**	**850**		**623.6**	**1400**	**1300**	**740**	**510**	**1300**	**1200**	**600**	**520**			**600**	**680**	**710**	**750**	**880**	**110**	**130**	**1000**	**970**	**370**	**380**
1,2-Dibromo-3-chloropropane				<3	<3		<30	<0.3	<0.3	<8.0	<8.0	<55	<55	<8.0	<5.0													
1,2-Dibromoethane				<2	<2		<20	<0.2	<0.4	<6.0	<6.0	<30	<30	<3.2	<3.0													
1,2-Dichlorobenzene				<1	<1	<20	<10	<0.3	<0.3	<14	<14	<25	<25	<4.6	<4.0													
1,2-Dichloroethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<18	<18	<25	<25	<6.0	<3.0													
cis-1,2-Dichloroethene				<1	<1	<20	<10	<0.2	<0.2	<10	<10	<30	<30	<5.0	<3.0													
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.3	<8.0	<8.0	<30	<30	<5.0	<3.0													
1,2-Dichloropropane	<5	<50	<5	<1	<1	<20	<10	<0.1	<0.2	<8.0	<8.0	<25	<25	<4.4	<2.9													
1,3,5-Trimethylbenzene				**120**	**200**		**21.291**	**420**	**415**	**360**	**300**	**530**	**530**	**260**	**200**													
1,3-Dichlorobenzene				<1	<1	<20	<10	<0.7	<0.4	<10	<10	<25	<25	<5.2	<3.0													
cis-1,3-Dichloropropene	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<12	<12	<6	<6	<3.8	<2.8													
1,3-Dichloropropane				<1	<1		<10	<0.3	<0.6	<24	<14	<30	<30	<4.6	<3.0													
trans-1,3-Dichloropropene	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<14	<24	<7	<7	<3.8	<3.0													
1,4-Dichlorobenzene				<1	<1	<20	<10	<0.3	<0.3	<10	<10	<25	<25	<4.6	<3.0													
2,2-Dichloropropane				<1	<1		<10	<0.2	<0.5	<12	<12	<30	<30	<5.0	<2.8													
2-Butanone (MEK)	<10	<100	<10									<350	<350	<48	<30													
2-Chloroethyl vinyl ether						<200																						
2-Chlorotoluene				<1	<1		<10	<0.4	<0.3	<12	<12	<25	<25	<4.4	<3.0													
2-Hexanone	<10	<100	<10									<350	<350	<80	<40													
4-Chlorotoluene				<1	<1		<10	<0.3	<0.3	<12	<12	<20	<20	<4.2	<2.9													
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10									<350	<350	<60	<30													
Acetone	<10	**1620**	**16.8**									<450	<450	<100	<50													
Benzene	<5	<50	<5	**2.8**	**4**	<20	<10	<0.2	<0.3	<8.0	<8.0	<20	<20	<3.8	<3.0													
Bromobenzene				<1	<1		<10	<0.3	<0.2	<10	<10	<25	<25	<4.0Q	<3.0													
Bromochloromethane				<1	<1		<10	<0.4	<0.2	<10	<10	<25	<25	<4.4	<4.0													
Bromodichloromethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<8.0	<8.0	<6.5	<6.5	<4.0	<3.0													
Bromoform	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.2	<12	<12	<25	<25	<4.4	<2.4													
Bromomethane	<10	<100	<10	<2	<2	<40	<20	<0.3	<0.9	<16	<16	<40	<40	<10	<3.0													
n-Butylbenzene				**85**	**140**		**91.59**	**140**	**180**	**260**	**230**	**160**	**31**	**31**	**21**													
sec-Butylbenzene				**36**	**43**		<10	**30**	**72.5**	**31**	**35**	**59**	**18**	**18**	**14**													
tert-Butylbenzene				<1	<1		<10	<0.3	<0.3	<10	<10	<25	<25	<4.0	**6.2**													

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

Parameter	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	07/22/03	07/14/04	07/21/05	7/21/2005 duplicate	07/15/10	07/20/11	07/09/12	7/9/2012 Duplicate	7/8/2013	7/16/2014	7/8/2015	7/7/2016	7/7/2016 Duplicate	7/13/2017	7/13/2017 Duplicate	7/12/2018	7/12/2018 Duplicate	7/11/2019	7/11/2019 Duplicate
Carbon disulfide	<5	<50	<5									<55	<55	<10	<6.0													
Carbon tetrachloride	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.4	<12	<12	<25	<25	<4.6	<4.0													
Chlorobenzene	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<16	<16	<25	<25	<4.8	<3.0													
Chlorodibromomethane	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<8.0	<8.0	<30	<30	<3.8	<2.6													
Chloroethane	<10	<100	<10	<2	<2	<40	<20	<0.4	<0.8	<10	<10	<35	<35	<8.0	<3.0													
Chloroform	**6.24**	<50	<5	**3.2**	**4.3**	<20	<10	<0.2	<0.2	<12	<12	<25	<25	<3.0	<2.3													
Chloromethane	<10	<100	<10	<2	<2	<40	<20	<0.7	<0.9	<8.0	<8.0	<12	<12	<8.0	<4.0													
Dibromomethane				<1	<1		<10	<0.1	<0.2	<10	<10	<35	<35	<4.8	<3.0													
Dichlorodifluoromethane				<2	<2		<20	<0.3	<1.2	<10	<10	<30	<30	<5.2	<3.0													
Diisopropyl ether										<10	<10	<25	<25	<4.0	<3.0													
Ethylbenzene	**25.1**	<50	**25.2**	**17**	**18**	<20	<10	**35**	**67.5**	<10	<10	<25	**9.7**	**9.7**	**11**													
Hexachlorobutadiene				<1	<1		<10	<0.5	<0.6	<10	<10	<30	<30	<6.0	<4.0													
Isopropylbenzene				**38**	**35**		**11**	**60**	**85**	**21**	**22**	**29**	**29**	<3.6	**22**													
p-Isopropyltoluene				<1	<1		<10	<0.4	**72.5**	**48**	**47**	**80**	**87**	**25**	**26**													
Methyl tert-butyl ether (MTBE)										<10	<10	<30	<30	<5.8	<3.0													
Methylene chloride	<5	**745**	**10.4**	<3	<3	<60	<30	<0.3	<0.5	<20	**92**	**28**	**25**	**25**	**9.2 B**													
Naphthalene	**55.4**	**84.6**	**74**	**140**	**49**	**73**	**85**	**180**	**195**	**120**	**93**	**150 A**	**140 A**	**85**	**82**	**49**	**45**	**90**	**89**	**87**	**91**	**110**	**10**	**12**	**100**	**100**	**39**	**40**
n-Propylbenzene				**43**	**49**		**67.52**	<0.3	**140**	**46**	**31**	**48**	**47**	**24**	**35**													
Styrene	<5	<50	<5	**16**	<1		<10	<0.2	<0.2	**24**	<10	<25	<25	<4.0	<3.0													
Tetrachloroethene	<5	<50	<5	<1	**7.6**	<20	<10	<0.3	<0.6	<10	<10	<20	<20	<6.0	<3.0													
Tetrahydrofuran												<350	<350	<60	<40													
Toluene	**5.61**	<50	<5	**3.5**	**3.8**	<20	<10	<0.2	**40**	<10	<10	<20	<20	<4.4	<3.0													
Trichloroethene	**51.1**	<50	**27.6**	**16**	**10**	<20	<10	<0.2	<0.3	<12	<12	<7.5	<7.5	<4.2	<4.0													
Trichlorofluoromethane				<1	<1	<20	<10	<0.5	<0.6	<8.0	<8.0	<25	<25	<4.0	<4.0													
Vinyl acetate	<10	<100	<10									<400	<400	<60	<40													
Vinyl chloride	<10	<100	<10	<1	<1	<20	<10	<0.3	<0.5	<6.0	<6.0	<6.0	<6.0	<3.6	<1.9													
Xylene, m & p-				**83**	**52**	<40	**155**	**180**	**210**	**35**	**24**	<50	<50	**25**	**23**			**17**	<20	<22	**31**	**49**	<4.0	<4.0	**24**	**23**	<16	**<16**
Xylene, o-				**170**	**200**	**97**	**218**	**550**	**440**	**280**	**240**	**290**	**270**	**160**	**120**			**83**	**91**	**90**	**95**	**120**	**69**	**64**	**110**	**100**	**39**	**43**
Xylenes, Total	**181**	**257**	**292**	**253**	**252**	**97**	**373**	**730**	**650**	**315**	**264**	**290**	**270**	**185**	**143**			**100**	**91**	**90**	**126**	**169**	**69**	**64**	**134**	**123**	**39**	**43**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limit
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W03A

Parameter	07/15/10	07/20/11	07/10/12	07/05/13	07/09/14	7/9/2014 Duplicate	7/8/2015	7/8/2015 Duplicate	7/7/2016	7/17/2017	7/18/2018	7/11/2019
1,1,1,2-Tetrachloroethane	<4.8	<8.0										
1,1,1-Trichloroethane	<4.2	<5.8										
1,1,2,2-Tetrachloroethane	<3.8	<6.0										
1,1,2-Trichloroethane	<5.2	<6.0										
1,1-Dichloroethane	<4.0	<5.6										
1,1-Dichloroethene	<4.8	<5.8										
1,1-Dichloropropene	<4.8	<8.0										
1,2,3-Trichlorobenzene	<6.0	<8.0										
1,2,3-Trichloropropane	<4.2	<8.0										
1,2,4-Trichlorobenzene	<6.0	<6.0										
1,2,4-Trimethylbenzene	**1,400**	**630**		**470**	**650**	**490**	**500**	**390**	**310**	**700**	**440**	**730**
1,2-Dibromo-3-chloropropane	<8.0	<10										
1,2-Dibromoethane	<3.2	<6.0										
1,2-Dichlorobenzene	<4.6	<8.0										
1,2-Dichloroethane	<6.0	<6.0										
cis-1,2-Dichloroethene	<5.0	<6.0										
trans-1,2-Dichloroethene	<5.0	<6.0										
1,2-Dichloropropane	<4.4	<5.8										
1,3,5-Trimethylbenzene	**500**	**92**										
1,3-Dichlorobenzene	<5.2	<6.0										
cis-1,3-Dichloropropene	<3.8	<5.6										
1,3-Dichloropropane	<4.6	<6.0										
trans-1,3-Dichloropropene	<3.8	<6.0										
1,4-Dichlorobenzene	<4.6	<6.0										
2,2-Dichloropropane	<5.0	<5.6										
2-Butanone (MEK)	<48	<60										
2-Chloroethyl vinyl ether												
2-Chlorotoluene	<4.4	<6.0										
2-Hexanone	<80	<80										
4-Chlorotoluene	**48**	<5.8										
4-Methyl-2-Pentanone (MIBK)	<60	<60										
Acetone	<100	<100										
Benzene	<3.8	<6.0										
Bromobenzene	<4.0Q	<6.0										
Bromochloromethane	<4.4	<8.0										
Bromodichloromethane	<4.0	<6.0										
Bromoform	<4.4	<4.8										
Bromomethane	<10	<6.0										
n-Butylbenzene	**94**	**25**										
sec-Butylbenzene	**71**	**37**										
tert-Butylbenzene	**13**	**11**										
Carbon disulfide	<10	<12										
Carbon tetrachloride	<4.6	<8.0										
Chlorobenzene	<4.8	<6.0										
Dibromochloromethane	<3.8	<5.2										
Chloroethane	<8.0	<6.0										
Chloroform	<3.0	<4.6										
Chloromethane	<8.0	<8.0										
Dibromomethane	<4.8	<6.0										
Dichlorodifluoromethane	<5.2	<6.0										
Diisopropyl Ether	<4.0	<6.0										
Ethylbenzene	**18**	**13**										
Hexachlorobutadiene	<6.0	<8.0										
Isopropylbenzene	**22**	**41**										

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W03A

Parameter	07/15/10	07/20/11	07/10/12	07/05/13	07/09/14	7/9/2014 Duplicate	7/8/2015	7/8/2015 Duplicate	7/7/2016	7/17/2017	7/18/2018	7/11/2019
p-Isopropyltoluene	**78**	**18**										
Methyl tert-butyl ether	<5.8	<6.0										
Methylene chloride	**19**	**23 B**										
Naphthalene	**95**	**55**	**18**	**47**	**40**	**34**	**38**	**25**	**27**	**53**	**11**	**46**
n-Propylbenzene	**74**	**33**										
Styrene	<4.0	<6.0										
Tetrachloroethene	<6.0	<6.0										
Tetrahydrofuran	<60	<80										
Toluene	<4.4	<6.0										
Trichloroethene	<4.2	<8.0										
Trichlorofluoromethane	<4.0	<8.0										
Vinyl acetate	<60	<80										
Vinyl chloride	<3.6	<3.8										
Xylene, m & p-	**55**	**21**		**16**	<20	<20	<22	<22	**21**	**18**	<8.0	<16
Xylene, o-	**200**	**87**		**72**	**90**	**66**	**67**	**45**	**59**	**100**	**25**	**96**
Xylenes, Total	**255**	**108**		**88**	**90**	**66**	**67**	**45**	**80**	**118**	**25**	**96**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W03B

Parameter	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	01/31/01	07/11/01	08/06/02
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50
1,2,4-Trimethylbenzene				<1	**5**	**3.8**	**8.2**		**4.6**	<0.7	**5.8**	**1.3**	<0.2	<0.10	<0.2	<0.50
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40
1,3,5-Trimethylbenzene				<1	**2.4**	**1.8**	**3.3**		**2.4**	<0.4	**3.2**	**1.3**	<0.3	<0.10	<0.3	<0.50
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60
1,3-Dichloropropane				<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2
trans-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60
2-Butanone (MEK)	<10	<100	<10													
2-Chloroethyl vinyl ether								<10								
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60
2-Hexanone	<10	<100	<10													
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10													
Acetone	**12.3**	**1040**	<10													
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50
Bromodichloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W03B

Parameter	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	01/31/01	07/11/01	08/06/02
Bromoform	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80
n-Butylbenzene				<1	<1	**1.6**	**3**		**3.6**	<0.6	**3.2**	**3.1**	<0.4	<0.10	<0.4	<0.50
sec-Butylbenzene				<1	**1.6**	<1	<1		**1.1**	<0.3	**1.1**	<0.2	<0.3	<0.20	<0.3	<0.50
tert-Butylbenzene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50
Carbon disulfide	<5	<50	<5													
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80
Chlorodibromomethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40
Chloroethane	<10	<100	<10	<2	<10	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50
Chloroform	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.60
Chloromethane	<10	<100	<10	<2	<20	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50
Dichlorodifluoromethane				<2	<40	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50
Diisopropyl Ether					<1							<0.3	<0.1	<0.10	<0.1	<0.50
Ethylbenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50
Isopropylbenzene				<1	<1	<1	<1		<1	<0.2	**0.8**	<0.2	<0.1	<0.10	<0.1	<0.50
p-Isopropyltoluene				<1	<1	<1	<1		**1.6**	<0.4	**1.4**	0.8	<0.2	<0.10	<0.2	<0.50
Methyl tert-butyl ether					<1							<0.2	<1.1	<0.30	<1.1	<0.50
Methylene chloride	<5	**534**	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0
Naphthalene	<10	**91.6**	<10	<1	**1.5**	<1	<1	<1	**1.4**	<0.8	**1.3**	<1.1	<0.7	<0.20	<0.7	<0.50
n-Propylbenzene				<1	<1	<1	<1		**1.1**	<0.3	**1.1**	<0.2	<0.3	<0.10	<0.3	<0.50
Styrene	<5	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50
Tetrachloroethene	<5	<50	<5	<1	<1	<1	<1	**1.3**	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50
Tetrahydrofuran																
Toluene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50
Trichloroethene	<5	<50	<5	<1	**8.9**	<1	**2.2**	**1.8**	**4.4**	**1**	**3.5**	**0.3**	**0.55**	**0.76**	**0.46 e**	**2.1**
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40
Vinyl acetate	<10	<100	<10													
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30
Xylene, o-				<1	**6.4**	<1	**1.9**	<1	**2.2**	<0.2	<0.5	<0.5	<0.1	<0.20	<0.2	<0.60
Xylene, m & p-				<2	<2	<2	<2	<2	<2	<0.4	**1.4**	<0.3	<0.2	<0.10	<0.1	<0.50
Xylenes, Total	<5	<50	<5	<3	**6.4**	<3	**1.9**	<3	**2.2**	<0.6	**1.4**	<0.8	<0.3			

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W03B

Parameter	07/24/03	07/13/04	07/20/05	07/18/06	07/11/07	07/23/08	07/06/09	07/15/10	07/18/11	07/06/12	07/01/13	07/09/14	07/07/15	07/05/16	07/13/17	07/11/18	07/09/19
1,1,1,2-Tetrachloroethane	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	**12**	**11**		<0.40	<0.60	<0.50	<0.40	**0.54**	<0.40	<0.40
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	**0.58**	**0.4**								
trans-1,2-Dichloroethene	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	**1.6**	<0.30								
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)			<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether																	
2-Chlorotoluene	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone			<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)			<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone			<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20Q	<0.30								
Bromochloromethane	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W03B

Parameter	07/24/03	07/13/04	07/20/05	07/18/06	07/11/07	07/23/08	07/06/09	07/15/10	07/18/11	07/06/12	07/01/13	07/09/14	07/07/15	07/05/16	07/13/17	07/11/18	07/09/19
Bromoform	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene	<0.50	14	<0.60	<0.40	<0.24	<0.24	<0.24	**0.57**	**0.38**								
sec-Butylbenzene	<0.50	8	<0.50	<0.50	<0.29	<0.29	<0.29	**3.6**	**2.3**								
tert-Butylbenzene	<0.50	5.6	<0.50	<0.50	<0.23	<0.23	<0.23	**0.88**	**1.1**								
Carbon disulfide			<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<0.60	<0.60	<0.50	<0.50	**0.3**	**0.88**	**0.36**	**0.93**	**1.2**								
Chloromethane	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**0.93B**	<0.40	<0.40								
Dibromomethane	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	**1.7**	**0.31**								
Hexachlorobutadiene	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	**3**	**0.96**								
p-Isopropyltoluene	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<1.0	**3.1 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	**3.9**	**2.2**	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	**3.8**	**0.81**								
Styrene	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	**0.33**	<0.30								
Tetrahydrofuran		0.60	<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	**2.1**	**<0.15**	**3.6 M**	**2.8**	**2.9**	**7.7**	**3.4**	**8.8**	**6.5**								
Trichlorofluoromethane	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate			<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, o-	<0.60	<0.60	<0.40	<0.9	<0.50	<0.50	<0.50	**0.5**	**3.2**		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, m & p-	<0.50	<0.50	<1.0	<0.60	<0.50	<0.50	<0.50	**15**	<0.60		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total				<1.5	<1.0	<1.0	<1.0	**15.5**	**3.2**		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19
NOTES:
All Units are in ug/L

B = Analyte detected in associated Method Blank
J = Estimated Value

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W6R

Parameter	07/24/03	07/23/08	7/23/2008 Duplicate	07/14/10	07/25/11	07/09/12	07/08/13	7/8/2013 Duplicate	07/09/14	07/09/15	7/9/2015 Duplicate	07/12/16	07/18/17	07/12/18	07/11/19
1,1,1,2-Tetrachloroethane	<90	<30	<30	<6.0	<2.0										
1,1,1-Trichloroethane	<50	<30	<30	<5.3	<1.5										
1,1,2,2-Tetrachloroethane	<80	<7	<7	<4.8	<1.5										
1,1,2-Trichloroethane	<90	<25	<25	<6.5	<1.5										
1,1-Dichloroethane	<50	<20	<20	<5.0	<1.4										
1,1-Dichloroethene	<40	<20	<20	<6.0	**3.9**										
1,1-Dichloropropene	<50	<25	<25	<6.0	<2.0										
1,2,3-Trichlorobenzene	<50	<25	<25	<7.5	<2.0										
1,2,3-Trichloropropane	<80	<15	<15	<5.3	<2.0										
1,2,4-Trichlorobenzene	<50	<20	<20	<7.5	<1.5										
1,2,4-Trimethylbenzene	**1500**	**1400**	**1800**	**1000**	**230**		**200**	**280**	**66**	**49**	**61**	**13**	**1.1**	**14**	**120**
1,2-Dibromo-3-chloropropane	<40	<20	<20	<10	<2.5										
1,2-Dibromoethane	<30	<6.5	<6.5	<4.0	<1.5										
1,2-Dichlorobenzene	<70	<20	<20	<5.8	<2.0										
1,2-Dichloroethane	<90	<15	<15	<7.5	<1.5										
cis-1,2-Dichloroethene	<50	<20	<20	<6.3	<1.5										
trans-1,2-Dichloroethene	<40	<25	<25	<6.3	<1.5										
1,2-Dichloropropane	<40	<11	<11	<5.5	<1.5										
1,3,5-Trimethylbenzene	**680**	**560**	**720**	**520**	**150**										
1,3-Dichlorobenzene	<50	<20	<20	<6.5	<1.5										
cis-1,3-Dichloropropene	<60	<7	<7	<4.8	<1.4										
1,3-Dichloropropane	<120	<9.5	<9.5	<5.8	<1.5										
trans-1,3-Dichloropropene	<70	<7	<7	<4.8	<1.5										
1,4-Dichlorobenzene	<50	<25	<25	<5.8	<1.5										
2,2-Dichloropropane	<60	<15	<15	<6.3	<1.4										
2-Butanone (MEK)		<200	<200	<60	<15										
2-Chloroethyl vinyl ether															
2-Chlorotoluene	<60	<15	<15	<5.5	<1.5										
2-Hexanone		<200	<200	<100	<20										
4-Chlorotoluene	<60	<15	<15	<5.3	<1.5										
4-Methyl-2-Pentanone (MIBK)		<150	<150	<75	<15										
Acetone		<350	<350	<130	<25										
Benzene	<40	<8	<8	<4.8	<1.5										
Bromobenzene	<50	<15	<15	<5.0Q	<1.5										
Bromochloromethane	<50	<11	<11	<5.5	<2.0										
Bromodichloromethane	<40	<9.5	<9.5	<5.0	<1.5										
Bromoform	<60	<25	<25	<5.5	<1.2										
Bromomethane	<80	<20	<20	<13	<1.5										
n-Butylbenzene	**400**	**96**	**130**	**66**	**34**										
sec-Butylbenzene	<50	**55**	**76**	**48**	**20**										
tert-Butylbenzene	<50	**14**	**20**	<5.0	**6.7**										
Carbon disulfide		<25	<25	<13	<3.0										
Carbon tetrachloride	<60	<20	<20	<5.8	<2.0										
Chlorobenzene	<80	<15	<15	<6.0	<1.5										
Chlorodibromomethane	<40	<12	<12	<4.8	<1.3										
Chloroethane	<50	<20	<20	<10	<1.5										
Chloroform	<60	<11	<11	<3.8	**1.7**										

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W6R

Parameter	07/24/03	07/23/08	7/23/2008 Duplicate	07/14/10	07/25/11	07/09/12	07/08/13	7/8/2013 Duplicate	07/09/14	07/09/15	7/9/2015 Duplicate	07/12/16	07/18/17	07/12/18	07/11/19
Chloromethane	<40	<15	<15	<10	<2.0										
Dibromomethane	<50	<20	<20	<6.0	<1.5										
Dichlorodifluoromethane	<50	<20	<20	<6.5	<1.5										
Diisopropyl Ether	<50	<25	<25	<5.0	<1.5										
Ethylbenzene	<50	<14	<14	**7.6**	**5.9**										
Hexachlorobutadiene	<50	<30	<30	<7.5	<2.0										
Isopropylbenzene	<50	**45**	**53**	**8.1**	**17**										
p-Isopropyltoluene	**66**	**76**	**110**	**51**	**27**										
Methyl tert-butyl ether	<50	<12	<12	<7.3	<1.5										
Methylene chloride	<100	<25	<25	**33**	**2.3 B**										
Naphthalene	**200**	**100**	**110**	**96**	**36**	**2.1**	**25**	**26**	**11**	**12**	**12**	**1.6**	<0.90	**2.4**	**17**
n-Propylbenzene	**78**	**74**	**96**	**79**	**28**										
Styrene	<50	<15	<15	<5.0	<1.5										
Tetrachloroethene	<50	<20	<20	**7.7**	**4.8**										
Tetrahydrofuran		<200	<200	<75	<20										
Toluene	<50	<10	<10	<5.5	<1.5										
Trichloroethene	<60	<7.5	<7.5	<5.3	**22**										
Trichlorofluoromethane	<40	<20	<20	<5.0	<2.0										
Vinyl acetate		<55	<55	<75	<20										
Vinyl chloride	<30	<7.5	<7.5	<4.5	<0.95										
Xylene, m & p-	**82**	**40**	**42**	**22**	**12**		<9.0	<9.0	**2.7**	**5.7**	**5.7**	**1.5**	<0.80	<0.80	**12**
Xylene, o-	**300**	**190**	**210**	**170**	**93**		**48**	**45**	**40**	**41**	**41**	**9.2**	**1.5**	**11**	**54**
Xylenes, Total	**382**	**230**	**252**	**192**	**105**		**48**	**45**	**42.7**	**46.7**	**46.7**	**10.7**	**1.5**	**11**	**66**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5
1,2,4-Trimethylbenzene				<1	<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3
1,3,5-Trimethylbenzene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2
1,3-Dichloropropane				<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4
trans-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2
2-Butanone (MEK)	<10	<100	<10												
2-Chloroethyl vinyl ether								<10							
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4
2-Hexanone	<10	<100	<10												
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10												
Acetone	<10	**1980**	<10												
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4
Bromodichloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2

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

Parameter	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	01/30/01	07/10/01
Bromoform	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4
n-Butylbenzene				<1	<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4
sec-Butylbenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3
tert-Butylbenzene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1
Carbon disulfide	<5	<50	<5											<0.10	<0.3
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3		
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3
Chlorodibromomethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4
Chloroethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5
Chloroform	**8.76**	<50	<5	**1.8**	**1.6**	<1	**1.3**	<1	<1	**0.9**	**1.6**	<0.2	<0.5	**1.4**	**1.6**
Chloromethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4
Dichlorodifluoromethane				<2	<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5
Diisopropyl Ether					<1							<0.3	<0.1	<0.10	<0.1
Ethylbenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6
Isopropylbenzene				<1	<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1
p-Isopropyltoluene				<1	<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2
Methyl tert-butyl ether					<1							<0.2	<1.1	<0.30	<1.1
Methylene chloride	<5	**1210**	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9
Naphthalene	<11	<10	<10	<1	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7
n-Propylbenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3
Styrene	**6.24**	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2
Tetrachloroethene	<5	**7**	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4
Tetrahydrofuran															
Toluene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1
Trichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4
Vinyl acetate	<10	<100	<10												
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4
Xylene, m & p-				<2	<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2
Xylene, o-				<1	<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1
Xylenes, Total	<5	<50	<5												

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

Parameter	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/06/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17	07/10/18	07/08/19
1,1,1,2-Tetrachloroethane	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40 MY	<0.60 Y	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)				<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether																		
2-Chlorotoluene	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone				<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)				<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone				<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								

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

Parameter	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/06/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17	07/10/18	07/08/19
Bromoform	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene	<0.50	<0.50	14	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene	<0.50	<0.50	8	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene	<0.50	<0.50	5.6	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide				<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	**0.26**	<0.22	<0.15	**0.76**								
Chloromethane	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**0.58B**	**0.5B**	<0.40								
Dibromomethane	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<1.0	<1.0	**3** J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran			0.60	<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								
Trichlorofluoromethane	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate				<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90 MY	<1.0 Y	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50 MY	<0.50 Y	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total					<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4 MY	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01	08/06/02	07/23/03	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/18/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	07/18/18	07/09/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	<1	**1.3**		**1.8**	**3.4**	1	<0.6	<0.2	**0.11**	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<10															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<1	**2.2**	<1	<1	**1.7**	**1.7**	**1.5**	<0.3	<0.1	**0.60**	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	**0.3**	<0.19	<0.30								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		**2.9**	**1.6**	**1.8**		**3.8**	**4.5**	**3.6**	**2**	**1.4**	**0.76**	<0.4	<0.50	**2.5**	**2.6**	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		**2**	**9.4**	**7.7**		**8.4**	**12**	**9.2**	**5.7**	**5.8**	**8.6**	**2.8**	**2.6**	**7.8**	**7.3**	**5.2**	**2.9**	**4.1**	**2.6**	**5.4**	**4**	**1.4**								
tert-Butylbenzene		<1	<1	<1		1.0	<0.3	**1.2**	<0.3	<0.1	**0.13**	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	**0.86**	<0.50	**2.2**	**1.0**	**1.5**	**0.96**	<0.40	<0.40	<0.30								
Chloroform	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	**0.36**	<0.3	<0.40	**1.7**	<0.40	**1.3**	**0.77**	**1.1**	**0.68**	**0.77B**	**0.44B**	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<1	<1	**3.1**	<1	**4.0**	**4**	**0.6**	<0.2	<0.1	<0.10	<0.1	<0.50	**0.52**	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		**2.5**	**5.7**	**5.6**		**10.9**	**19**	**10**	**6.2**	**4.1**	**7.0**	**1.4**	**0.72**	**6.5**	**3.9**	**3.7**	**1.5**	**1.9**	**1.3**	**2**	<0.18	**0.35**								

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

Parameter	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	01/30/01	07/10/01	08/06/02	07/23/03	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/18/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	07/18/18	07/09/19
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	**1.4**	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene		<1	<1	**2.2**	<1	**3.1**	**7.7**	**4.6**	**1.8**	**0.81**	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.33	**1.2**	**1.3**	**1.6**	**1.8**	<0.90	**1.5**	**1.2**
n-Propylbenzene		**1.7**	<1	**3.2**		**7.8**	**12**	**4.8**	**0.8**	<0.3	**1.9**	<0.3	<0.50	**1.8**	**1.1** J	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<1	<1	<1	**1.3**	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	**0.83**	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	**1.3**	**1.8**	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	**1.1**	<0.2	**1.4**	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01	08/06/02	07/23/03	07/14/04	07/20/05	07/19/06	07/10/07	07/23/08	7/23/2008 Duplicate	07/06/09	7/6/2009 Duplicate	07/15/10	07/25/11	7/25/2011 Duplicate	07/09/12	7/9/2012 Duplicate	07/05/13	7/5/2013 Duplicate	07/10/14	07/09/15	7/9/2015 Duplicate	07/12/16	7/12/2016 Duplicate	7/18/2017	7/18/2017 Duplicate	7/18/2018	7/18/2018 Duplicate	7/15/2019	7/15/2019 Duplicate
1,1,1,2-Tetrachloroethane			<1	<1		<10	<0.1	<0.3	<6	<8	<4.0	<10	<23	<23	<0.90	<0.50	<35 *	<30	<30	<30	<15	<15	<4.8	<8.0	<8.0															
1,1,1-Trichloroethane	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6	<6	<4.0	<7.5	<13	<13	<0.50	<0.60	<25 *	<30	<30	<30	<15	<15	<4.2	<5.8	<5.8															
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	**11**	<10	<0.2	<0.2	<4	<8	<4.0	<10	<20	<20	<0.80	<0.15	<6.5 *	<7.0	<7.0	<7.0	<3.5	<3.5	<3.8	<6.0	<6.0															
1,1,2-Trichloroethane	<5	<1	<1	<1	<10	<10	<1	<0.2	<4	<4	<2.0	<5.0	<23	<23	<0.90	<0.40	<25 *	<25	<25	<25	<13	<13	<5.2	<6.0	<6.0															
1,1-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<4	<8	<2.0	<10	<13	<13	<0.50	<0.50	<20 *	<20	<20	<20	<10	<10	<4.0	<5.6	<5.6															
1,1-Dichloroethene	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<4	<18	<2.0	<23	<10	<10	<0.40	<0.50	<15 *	<20	<20	<20	<10	<10	<4.8	<5.8	<5.8															
1,1-Dichloropropene			<1	<1		<10	<0.2	<0.3	<6	<8	<4.0	<10	<13	<13	<0.50	<0.50	<30 *	<25	<25	<25	<13	<13	<4.8	<8.0	<8.0															
1,2,3-Trichlorobenzene		<1	<1	<1		<10	<0.5	<0.4	<8	<10	<6.0	<13	<13	<13	<0.50	<0.60	<25 *	<25	<25	<25	<13	<13	<6.0	<8.0	<8.0															
1,2,3-Trichloropropane			<1	<1		<10	<0.3	<0.2	<4	<6	<2.0	<7.5	<20	<20	<0.80	<0.60	<35 *	<15	<15	<15	<7.5	<7.5	<4.2	<8.0	<8.0															
1,2,4-Trichlorobenzene		<1	<1	<1		<10	<0.5	<0.3	<6	<10	<6.0	<13	<13	<13	<0.50	<0.70	<35 *	<20	<20	<20	<10	<10	<6.0	<6.0	<6.0															
1,2,4-Trimethylbenzene		**500**	**900**	**700**		**524.8**	**440**	**800**	**530**	**700**	**810**	**760**	**750**	**820**	**31**	**1000**	**700 ***	**1100**	**1300**	**1400**	**760**	**730**	**900**	**610**	**680**			**530**	**430**	**450**	**290**	**290**	**150**	**170**	**490**	**590**	**500**	**490**	**580**	**610**
1,2-Dibromo-3-chloropropane		<3	<3	<3		<30	<0.3	<0.3	<6	<6	<8.0	<7.5	<10	<10	<0.40	<1.1	<15 *	<20	<20	<20	<10	<10	<8.0	<10	<10															
1,2-Dibromoethane		<2	<2	<2		<20	<0.2	<0.4	<8	<6	<2.0	<7.5	<7.5	<7.5	<0.30	<0.60	<25 *	**6.5**	<6.5	<6.5	<3.3	<3.3	<3.2	<6.0	<6.0															
1,2-Dichlorobenzene		<1	<1	<1	<10	<10	<0.3	<0.3	<6	<6	<4.0	<7.5	<18	<18	<0.70	<0.50	<25 *	<20	<20	<20	<10	<10	<4.6	<8.0	<8.0															
1,2-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<4	<8	<4.0	<10	<23	<23	<0.90	<0.50	<25 *	<15	<15	<15	<7.5	<7.5	<6.0	<6.0	<6.0															
cis-1,2-Dichloroethene		<1	<1	<1	<10	<10	<0.2	<0.2	<4	<8	<4.0	<10	<13	<13	<0.50	<0.60	<20 *	<20	<20	<20	<10	<10	<5.0	<6.0	<6.0															
trans-1,2-Dichloroethene	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<6	<16	<2.0	<20	<10	<10	<0.40	<0.60	<20 *	<25	<25	<25	<13	<13	<5.0	<6.0	<6.0															
1,2-Dichloropropane	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<4	<6	<4.0	<7.5	<10	<10	<0.40	<0.50	<25 *	<11	<11	<11	<5.3	<5.3	<4.4	<5.8	<5.8															
1,3,5-Trimethylbenzene		**170**	**140**	**60**		**27.7**	**50**	**130**	**57**	**78**	**9.5**	**120**	**94**	**61**	**1.8**	**9.6**	**20***	**63**	**81**	**100**	**20**	**17**	**25**	**77**	**88**															
1,3-Dichlorobenzene		<1	<1	<1	<10	<10	<0.7	<0.4	<8	<8	<2.0	<5.0	<13	<13	<0.50	<0.50	<20*	<20	<20	<20	<10	<10	<5.2	<6.0	<6.0															
cis-1,3-Dichloropropene	<5		<1	<1	<10	<10	<0.3	<0.3	<6	<4	<2.0	<10	<15	<15	<0.60	<0.12	<7.5*	<7.0	<7.0	<7.0	<3.5	<3.5	<3.8	<5.6	<5.6															
1,3-Dichloropropane		<1	<1	<1		<10	<0.3	<0.6	<12	<8	<2.0	<10	<30	<30	<1.2	<0.60	<25*	<9.5	<9.5	<9.5	<4.8	<4.8	<4.6	<6.0	<6.0															
trans-1,3-Dichloropropene	<5		<1	<1	<10	<10	<0.2	<0.2	<4	<10	<2.0	<13	<18	<18	<0.70	<0.14	<7.0*	<7.0	<7.0	<7.0	<3.5	<3.5	<3.8	<6.0	<6.0															
1,4-Dichlorobenzene		<1	<1	<1	<10	<10	<0.3	<0.3	<6	<8	<2.0	<10	<13	<13	<0.50	<0.50	<30 *	<25	<25	<25	<13	<13	<4.6	<6.0	<6.0															
2,2-Dichloropropane		<1	<1	<1		<10	<0.2	<0.5	<10	<4	<4.0	<5.0	<15	<15	<0.60	<0.60	<30 *	<15	<15	<15	<7.5	<7.5	<5.0	<5.6	<5.6															
2-Butanone (MEK)	<10															<7.0	<250 *	<200	<200	<200	<100	<100	<48	<60	<60														
2-Chloroethyl vinyl ether					<100																																		
2-Chlorotoluene		<1	<1	<1		<10	<0.4	<0.3	<6	<8	<2.0	<10	<15	<15	<0.60	<0.50	<25 *	<15	<15	<15	<7.5	<7.5	<4.4	<6.0	<6.0															
2-Hexanone	<10															<7.0	<400 *	<200	<200	<200	<100	<100	<80	<80	<80														
4-Chlorotoluene		<1	<1	<1		<10	<0.3	<0.3	<6	<6	<4.0	<7.5	<15	<15	<0.60	**0.81**	<30 *	<15	<15	<15	<7.5	<7.5	<4.2	<5.8	<5.8															
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<300 *	<150	<150	<150	<75	<75	<60	<60	<60														
Acetone	<10															<9.0	<500 *	<350	<350	<350	<180	<180	<100	<100	<100														
Benzene	<5	**3.3**	**5.2**	**5**	<10	<10	<0.2	**25**	<6	<2	<2.0	<2.5	<10	<10	<0.40	**0.86**	<20 *	<8.0	<8.0	<8.0	<4.0	**4.3**	<3.8	<6.0	<6.0															
Bromobenzene		<1	<1	<1		<10	<0.3	<0.2	<4	<10	<2.0	<13	<13	<13	<0.50	<0.50	<30 *	<15	<15	<15	<7.5	<7.5	<4.0Q	<6.0 M	<6.0															
Bromochloromethane			<1	<1		<10	<0.4	<0.2	<4	<8	<2.0	<10	<13	<13	<0.50	<0.50	<35 *	<11	<11	<11	<5.3	<5.3	<4.4	<8.0	<8.0															
Bromodichloromethane	<5	<1	<1	<1	**41**	<10	<0.2	<0.2	<4	<4	<2.0	<5.0	<10	<10	<0.40	<0.13	<7.5 *	<9.5	<9.5	<9.5	<4.8	<4.8	<4.0	<6.0	<6.0															
Bromoform	<5		<1	<1	<10	<10	<0.3	<0.2	<4	<2	<4.0	<2.5	<15	<15	<0.60	<0.50	<11 *	<25	<25	<25	<13	<13	<4.4	<4.8	<4.8															
Bromomethane	<10		<2	<2	<20	<20	<0.3	<0.9	<18	<8	<8.0	<10	<20	<20	<0.80	<0.80	<45 *	<20	<20	<20	<10	<10	<10	<6.0	<6.0															
n-Butylbenzene		**110**	**58**	**85**		**71.2**	**32**	**88**	**67**	**86**	**18**	**66**	**78**	**76**	**2.9**	**22**	<20 *	**30**	**61**	<12	**21**	**24**	**23**	**15**	**17**															
sec-Butylbenzene		**14**	**24**	<1		<10	<0.3	**48**	**33**	**37**	**19**	**16 j**	**23**	**20**	**0.94 J**	**30**	<25 *	**29**	**48**	**50**	**34**	**32**	**37**	**23**	**26**															
tert-Butylbenzene		<1	<1	**250**		<10	<0.3	<0.3	<6	<2	**6.1**	<2.5	<13	<13	<0.50	**11**	<25 *	<12	<12	**36**	**12**	**11**	**6.4**	**9.3**	**9.3**															
Carbon disulfide	<5															<1.1	<50 *	<25	<25	<25	<13	<13	<10	<12	<12														
Carbon tetrachloride	<5	<1	<1	<1	<10	<10	<0.2	<0.4	<8	<6	<2.0	<7.5	<15	<15	<0.60	<0.50	<25 *	<20	<20	<20	<10	<10	<4.6	<8.0	<8.0															
Chlorobenzene	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6	<6	<2.0	<7.5	<20	<20	<0.80	<0.50	<20 *	<15	<15	<15	<7.5	<7.5	<4.8	<6.0	<6.0															
Chlorodibromomethane	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6	<8	<2.0	<10	<10	<10	<0.40	<0.60	<30 *	<12	<12	<12	<5.8	<5.8	<3.8	<5.2	<5.2															
Chloroethane	<10	<2	<2	<2	<20	<20	<0.4	<0.8	<16	<10	<8.0	<13	<13	<13	<0.50	**0.71**	<30 *	<20	<20	<20	<10	<10	<8.0	<6.0	<6.0															
Chloroform	<5	**1.4**	<1	**1.7**	<10	<10	<0.2	<0.2	<4	<10	**5.5**	<13	<15	<15	<0.60	**0.89**	<25 *	<11	<11	<11	<5.5	<5.5	<3.0	<4.6	<4.6															
Chloromethane	<10	<2	<2	<2	<20	<20	<0.7	<0.9	<18	<6	<4.0	<7.5	<10	<10	<0.40	**0.33**	<15 *	<15	<15	<15	<7.5	<7.5	<8.0	<8.0	<8.0															
Dibromomethane			<1	<1		<10	<0.1	<0.2	<4	<8	<4.0	<10	<13	<13	<0.50	<0.70	<40 *	<20	<20	<20	<10	<10	<4.8	<6.0	<6.0															
Dichlorodifluoromethane		<2	<2	<2		<20	<0.3	<1.2	<24	<10	<2.0	<13	<13	<13	<0.50	<0.60	<15 *	<20	<20	<20	<10	<10	<5.2	<6.0	<6.0															
Diisopropyl Ether		<1							<6	<2	<2.0	<2.5	<13	<13	<0.50	<0.50	<20 *	<25	<25	<25	<13	<13	<4.0	<6.0	<6.0															
Ethylbenzene	**35.2**	**20**	**38**	**33**	**40**	**34.6**	<0.2	**40**	**16**	**19**	**20**	**20**	**22**	**32**	**1.1**	**28**	<25 *	**44**	**37**	**39**	**27**	**25**	**40**	**17**	**20**															
Hexachlorobutadiene		<1	<1	<1		<10	<0.5	<0.6	<12	<12	<4.0	<15	<13	<13	<0.50	<0.60	<45 *	<30	<30	<30	<15	<15	<6.0	<8.0 M	<8.0															
Isopropylbenzene		**23**	**41**	**39**		<10	**16**	**50**	**51**	**32**	**27**	**31**	**35**	**38**	**1.6**	**45**	**35 ***	**55**	**77**	**75**	**50**	**50**	**35**	**42**	**45**															

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

Parameter	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	01/30/01	07/10/01	08/06/02	07/23/03	07/14/04	07/20/05	07/19/06	07/10/07	07/23/08	7/23/2008 Duplicate	07/06/09	7/6/2009 Duplicate	07/15/10	07/25/11	7/25/2011 Duplicate	07/09/12	7/9/2012 Duplicate	07/05/13	7/5/2013 Duplicate	07/10/14	07/09/15	7/9/2015 Duplicate	07/12/16	7/12/2016 Duplicate	7/18/2017	7/18/2017 Duplicate	7/18/2018	7/18/2018 Duplicate	7/15/2019	7/15/2019 Duplicate
p-Isopropyltoluene		<1	<1	**3.4**		<10	<0.4	**35**	**7**	<4	<2.0	**16 j**	<13	<13	<0.50	<0.40	<20 *	<8.5	<8.5	**12**	<4.3	<4.3	<4.6	<6.0	<6.0																
Methyl tert-butyl ether		<1							<4	<22	<6.0	<28	<13	<13	<0.50	<0.60	<20 *	<12	<12	<12	<5.8	<5.8	<5.8	<6.0	<6.0															
Methylene chloride	<10	<3	<3	<3	<30	<30	<0.3	<0.5	<10	<38	<8.0	<48	<25	<25	**4.7 A,B,Q**	<0.40	**65 Q***	**170 A**	<25	<25	<13	<13	**23**	**27 B**	**27 B**															
Naphthalene	**62.6**	**70**	**100**	**12**	**110**	**79.4**	**66**	**140**	**125**	**130**	**110**	**140**	**120**	**110**	**4.4**	**120 A**	**77 ***	**150**	**180**	**170**	**110**	**130**	**160**	**90**	**100**	**11 V**	**11 V**	**55**	**57**	**46**	**8.6**	**8.8**	<9.0	<9.0	**28**	**33**	**28**	**29**	**26**	**26**
n-Propylbenzene		**38**	**57**	<1		**63.5**	**34**	**78**	**49**	**54**	**48**	**50**	**59**	**66**	**2.4**	**64**	**40 ***	**90**	**89**	**87**	**67**	**66**	**93**	**46**	**51**																
Styrene	<5		<1	<1		<10	<0.2	<0.2	<4	<4	<2.0	<5.0	<13	<13	<0.50	<0.50	<25 *	<15	<15	<15	<7.5	<7.5	<4.0	<6.0	<6.0															
Tetrachloroethene	<5	<1	**3.6**	**2.8**	<10	<10	<0.3	<0.6	<12	<8	<2.0	<10	<13	<13	<0.50	**1.8**	<15 *	<20	<20	<20	<10	<10	<6.0	<6.0	<6.0															
Tetrahydrofuran																<7.0	<350 *	<200	<200	<200	<100	<100	<60	<80	<80															
Toluene	**11.3**	**8.9**	**12**	**10**	**57**	<10	<0.2	**18**	<4	**7.1**	<4.0	**<2.5**	<13	<13	<0.50	0.4	<20 *	<10	<10	<10	<5.0	<5.0	<4.4	<6.0	<6.0															
Trichloroethene	**31.5**	**22**	**30**	**25**	**20**	**25.6**	<0.2	**35**	<6	<6	**19**	**9.4 j**	<15	<15	**0.67**	**17**	<7.5 *	**23**	**19**	**29**	**17**	**16**	**21**	**9**	**9.7**															
Trichlorofluoromethane		<1	<1	<1	<10	<10	<0.5	<0.6	<12	<8	<4.0	<10	<10	<10	<0.40	<0.50	<35 *	<20	<20	<20	<10	<10	<4.0	<8.0	<8.0															
Vinyl acetate	<10															<8.0	<85 *	<55	<55	<55	<28	<28	<60	<80	<80															
Vinyl chloride	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<10	<8	<2.0	<10	<7.5	<7.5	<0.30	<0.12	<7.5 *	<7.5	<7.5	<7.5	<7.5	<3.8	<3.8	<3.6	<3.8	<3.8														
Xylene, m & p-		**65**	**61**	**16**	**300**	**92.1**	**20**	**68**	**37**	**49**	**25**	**47**	**55**	**52**	**1.8 J**	**34**	<45 *	**51**	**54**	**58**	**33**	**32**	**41**	**30**	**32**			**25**	**25**	<20	<11	<11	**15**	**16**	**18**	**19**	**29**	**29**	<16	<16
Xylene, o-		**180**	**200**	**210**	**350**	**172.8**	**80**	**170**	**96**	**110**	**9.4**	**140**	**110**	**83**	**3.1**	**23**	**32 ***	**60**	**88**	**93**	**34**	**28**	**32**	**87**	**94**			**84**	**79**	**58**	**39**	**38**	**28**	**31**	**84**	**100**	**97**	**93**	**76**	**79**
Xylenes, Total	**252**															**57**	**32 ***	**111**	**142**	**151**	**67**	**60**	**185**	**117**	**126**			**109**	**104**	**58**	**39**	**38**	**43**	**47**	**102**	**119**	**126**	**122**	**76**	**79**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference

* = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01	08/06/02	07/23/03	07/14/04	7/14/2004 duplicate	07/20/05	7/20/2005 duplicate	07/19/06	07/10/07	07/23/08	07/06/09	07/15/10	07/20/11	07/06/12	07/05/13	07/08/14	07/07/15	07/07/16	07/17/17	07/11/18	07/15/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.90	<0.50	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.80	<0.15	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.90	<0.40	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.80	<0.60	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.50	<0.70	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	**1.8**	<1		**1.0**	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.50	<0.24	<0.24	<0.24	**2.8**	**22**		**3 Y**	**1.1**	<0.50	**0.90**	<0.40	<0.40	**5.9**
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<0.40	<1.1	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.30	<0.60	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.70	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.90	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.40	<0.60	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	**3.3**								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.60	<0.12	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<1.2	<0.60	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10																<7.0	<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																											
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.60	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10																<7.0	<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.60	<0.40	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10																<7.0	<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<10																<9.0	<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20Q	<0.30								
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.40	<0.13	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								

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

Parameter	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	01/30/01	07/10/01	08/06/02	07/23/03	07/14/04	7/14/2004 duplicate	07/20/05	7/20/2005 duplicate	07/19/06	07/10/07	07/23/08	07/06/09	07/15/10	07/20/11	07/06/12	07/05/13	07/08/14	07/07/15	07/07/16	07/17/17	07/11/18	07/15/19
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.60	<0.50	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	14	<0.24	<0.24	<0.24	<0.23	**0.38**								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	**0.22**	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8	<0.29	<0.29	<0.29	<0.21	**0.95**								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.6	<0.23	<0.23	<0.23	<0.20	**0.4**								
Carbon disulfide	<5																<1.1	<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.60	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.80	<0.50	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.40	<0.40	<0.40	<0.40	<0.60	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.50	<0.70	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.60	<0.50	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.40	<0.24	<0.24	<0.30	<0.30	<0.30	**1.5B**	<0.40	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	**0.34**								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	**0.23**	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	**0.84**								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3 J,A,B,Q**	**3 J,A,B,Q**	<0.40	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<10	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	**2.8**	<0.33	**0.69**	<1.2	<0.50	<0.90	<0.90	<0.90	**0.94**
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	**0.63**								
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran																		<7.0	0.60	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	**0.63 J**	**0.75 J**	<0.15	<0.15	<0.15	<0.15	**0.98**	**0.39**	<0.21	**0.45**								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10																<8.0	<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.30	<0.12	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<1.0	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	**0.7**		<0.90 MY	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	**2.1**		**0.57 MY**	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																		<1.5	<1.0	<1.0	<1.0	<1.0	**2.8**		**0.57 MY**	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/11/01	08/06/02	07/22/03	07/13/04	07/19/05	07/19/06	07/10/07	07/23/08	07/07/09	07/14/10	07/19/11	07/09/12	07/01/13	7/1/2013 Duplicate	07/08/14	07/06/15	07/05/16	07/17/17	07/11/18	07/09/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40									
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29									
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30									
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30									
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28									
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29									
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40									
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40									
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40									
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30									
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	**7.1**	<0.2	**0.48**	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50									
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30									
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40									
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30									
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30									
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30									
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29									
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	**0.9**	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30									
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30									
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28									
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30									
trans-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30									
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30									
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28									
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0									
2-Chloroethyl vinyl ether					<10																										
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30									
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0									
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29									
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0									
Acetone	<10															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0									
Benzene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	**0.59**	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30									
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30									
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40									
Bromodichloromethane	<5	<1	<1	<1	<1	**2.1**	**1.8**	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30									

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

Parameter	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	01/30/01	07/11/01	08/06/02	07/22/03	07/13/04	07/19/05	07/19/06	07/10/07	07/23/08	07/07/09	07/14/10	07/19/11	07/09/12	07/01/13	7/1/2013 Duplicate	07/08/14	07/06/15	07/05/16	07/17/17	07/11/18	07/09/19
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24									
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30									
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	**2.3**	<0.4	**0.22**	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	**0.31**	<0.24	<0.24	<0.23	<0.29									
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	**2.4**	**1.3**	**0.86**	<0.3	<0.50	<0.50	<0.50	<0.50	<0.52	**2.2**	<0.29	**1.6**	**1.4**	**1**									
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	**0.8**	<0.1	**0.33**	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	<0.23	**0.7**	<0.20	**0.49**									
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60									
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40									
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30									
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26									
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30									
Chloroform	<5	<1	<1	**17**	**15**	**34.7**	**36.0**	<0.2	<0.2	<0.5	**0.37**	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23									
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**1.3AB**	<0.40	<0.40									
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30									
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30									
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30									
Ethylbenzene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	**0.2**	<0.1	**0.11**	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29									
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40									
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	**1.8**	<0.1	**0.29**	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30									
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30									
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30									
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40									
Naphthalene	<10	<1	<1	<1	<1	<1	<0.8	<1.1	**3.8**	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.33	**0.70**	**0.94**	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	**1**	<0.3	**0.17**	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30									
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30									
Tetrachloroethene	<5	<1	<1	<1	**1.4**	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30									
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0									
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30									
Trichloroethene	<5	<1	<1	<1	**1.3**	<1	<0.2	<0.3	**1.6**	**0.62**	**2.2**	<0.3	<0.60	<0.60	<0.60	**1.0**	**0.9**	<0.50	<0.50	<0.50	<0.50	<0.60									
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40									
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0									
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19									
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	**0.3**	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	**4.7**	<0.1	**0.65**	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/11/17	07/11/18	07/08/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	<1	<1		**2.1**	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5	0	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<10															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/11/17	07/11/18	07/08/19
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	**0.28**	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	**0.15**	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<5	<1	<1	<1	<1	<1	**5.2**	**1**	**0.7**	**1.6**	**1.8**	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	**0.23**	<0.22	<0.22	<0.15	**1.1**								
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**0.48B**	<0.40	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	2.9	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<10	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	**0.34**	<0.4	**0.76**	<0.50	0.83	**0.74**	**0.65**	**0.53**	**0.6**	**0.70**	**0.61**	**0.62**								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	**22.4**	**7.6**	**8.1**	**4.2**	**5.3**	<1	<0.2	**1.65**	**1.2**	**1.12**	**1.7**	**0.38 J**	<0.60	<0.60	<0.60	**0.21**	<0.15	**0.22**	<0.15	**0.18**	<0.21	<0.40								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19

Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/31/01	07/10/01	08/06/02	07/23/03	07/14/04	07/20/05	07/18/06	07/10/07	07/24/08	07/06/09	07/13/10	07/19/11	07/06/12	07/10/13	07/16/14	07/08/15	07/11/16	07/20/17	07/16/18	07/16/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		**3.2**	<1	**1.4**		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		**1.8**	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<10															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		**2.6**	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	**0.15**	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	1.5	<1		<1	<0.3	**0.45**	<0.2	**1.4**	**0.43**	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	**0.18**	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	**0.18**	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**0.85B**	<0.40	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<10	**1.4**	**6.6**	**4.4**	**1.2**	<1	**1.2**	<1.1	**1.85**	**1.2**	**0.83**	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.33	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		**1.7**	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<1	1.5	<1	<1	<1	<0.3	1.05	<0.6	0.51	**0.55**	<0.4	<0.50	<0.50	**0.85 J**	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								

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

Parameter	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	01/31/01	07/10/01	08/06/02	07/23/03	07/14/04	07/20/05	07/18/06	07/10/07	07/24/08	07/06/09	07/13/10	07/19/11	07/06/12	07/10/13	07/16/14	07/08/15	07/11/16	07/20/17	07/16/18	07/16/19
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	**10.6**	**2.3**	**4.9**	**3.4**	**4.6**	**1.98**	**3.3**	**2.95**	**1.8**	**1.5**	**1.5**	**0.72 J**	<0.60	**0.61**	**1.1 J**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19
NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/09/12	07/01/13
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40		
1,1,1-Trichloroethane	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29		
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30		
1,1,2-Trichloroethane	<5	<1	<1	<1	<10	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30		
1,1-Dichloroethane	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28		
1,1-Dichloroethene	<5	<1	<1	<1	<10	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29		
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40		
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40		
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40		
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30		
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50		
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30		
1,2-Dichlorobenzene		<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40		
1,2-Dichloroethane	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30		
cis-1,2-Dichloroethene		<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30		
trans-1,2-Dichloroethene	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30		
1,2-Dichloropropane	<5	<1	<1	<1	<10	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29		
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30		
1,3-Dichlorobenzene		<1	<1	<1	<10	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30		
cis-1,3-Dichloropropene	<5		<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28		
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30		
trans-1,3-Dichloropropene	<5		<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30		
1,4-Dichlorobenzene		<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30		
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28		
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0		
2-Chloroethyl vinyl ether					<100																			
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30		
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0		
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29		
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0		
Acetone	**13.3**															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0		
Benzene	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30		
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30		
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40		
Bromodichloromethane	<5	<1	<1	<1	**30**	<1	<0.2	0.3	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30		

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/09/12	07/01/13
Bromoform	<5		<1	<1	<10	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24		
Bromomethane	<10		<2	<2	<10	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30		
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29		
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30		
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40		
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60		
Carbon tetrachloride	<5	<1	<1	<1	<10	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40		
Chlorobenzene	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30		
Chlorodibromomethane	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26		
Chloroethane	<10	<2	<2	<2	<20	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30		
Chloroform	<5	<1	<1	<1	<10	<1	**22**	**22**	<0.2	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23		
Chloromethane	<10	<2	<2	<2	<20	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**0.84B**	<0.40	<0.40		
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30		
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30		
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30		
Ethylbenzene	<5	<1	<1	<1	**33**	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29		
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40		
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30		
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30		
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30		
Methylene chloride	<10	<3	<3	<3	<30	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**2.9 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40		
Naphthalene		<1	<1	<1	**110**	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.31	<0.50
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30		
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30		
Tetrachloroethene	<5	**2**	**1.8**	**1.4**	<10	<1	<0.3	0.9	<0.6	<0.4	**0.25**	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30		
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0		
Toluene	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30		
Trichloroethene	<5	<1	<1	<1	**41**	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40		
Trichlorofluoromethane		<1	<1	<1	<10	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40		
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0		
Vinyl chloride	<10	<1	<1	<1	<10	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19		
Xylene, m & p-		<2	<2	<2	120	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90
Xylene, o-		<1	<1	<1	200	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.40

Prepared By: T. Dushek, 8/7/13
Checked by: A. Voit, 9/21/13

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limits.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.
WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/12/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/13/10	07/18/11	07/09/12	07/01/13	07/08/14	07/06/15	07/05/16	07/10/17	07/10/18	07/08/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	**0.46**		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene	0	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	18.3															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1	0	<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1	0	<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	2.957	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	**0.74**								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	**4.0**								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	**2.3**								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<5	<1	<1	<1	**2.1**	**49**	**5.4**	**0.4**	<0.2	<0.5	**0.47**	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	**0.17**	**4.3**								
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	**0.99B**	<0.40	<0.40	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	**2.3**								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	**0.51 B**								
Naphthalene		<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	**3.5**	<0.34	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<1	<1	<1	<1	<1	<0.3	**1.4**	<0.6	<0.4	**0.21**	<0.4	<0.50	**0.73**	**0.61 J**	**0.7**	<0.29	<0.40	**0.78**	**0.68**	**0.36**	**1.8**								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/12/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/13/10	07/18/11	07/09/12	07/01/13	07/08/14	07/06/15	07/05/16	07/10/17	07/10/18	07/08/19
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<5	**1.3**	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	**0.44**								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	**0.9**		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	**0.9**		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W17

Parameter	07/13/04	07/20/05	07/18/06	07/10/07	07/23/08	07/06/09	7/6/2009 Duplicate	07/15/10	07/19/11	07/06/12	7/6/2012 Duplicate	7/2/2013	7/16/2014	7/9/2015	7/7/2016	7/17/2017	7/11/2018	7/11/2019
1,1,1,2-Tetrachloroethane	<4.5	<5.0	<0.70	<3.0	<3.0	<3.0	<3.0	<0.24	<0.40									
1,1,1-Trichloroethane	<2.5	<6.0	<0.50	<3.0	<3.0	<3.0	<3.0	<0.21	<0.29									
1,1,2,2-Tetrachloroethane	<4.0	<1.5	<0.13	<0.70	**6.7**	<0.70	<0.70	<0.19	<0.30									
1,1,2-Trichloroethane	<4.5	<4.0	<0.50	<2.5	<2.5	<2.5	<2.5	<0.26	<0.30									
1,1-Dichloroethane	<2.5	<5.0	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20	<0.28									
1,1-Dichloroethene	<2.0	<5.0	<0.30	<2.0	<2.0	<2.0	<2.0	<0.24	<0.29									
1,1-Dichloropropene	<2.5	<5.0	<0.60	<2.5	<2.5	<2.5	<2.5	<0.24	<0.40									
1,2,3-Trichlorobenzene	<2.5	<6.0	<0.50	<2.5	<2.5	<2.5	<2.5	<0.30	<0.40									
1,2,3-Trichloropropane	<4.0	<6.0	<0.70	<1.5	<1.5	<1.5	<1.5	<0.21	<0.40									
1,2,4-Trichlorobenzene	<2.5	<7.0	<0.70	<2.0	<2.0	<2.0	<2.0	<0.30	<0.30									
1,2,4-Trimethylbenzene	**150**	**200**	**95**	**180**	**190**	**260**	**270**	**92**	**60**			**92**	**78**	**71**	**20**	**29**	**36**	**22**
1,2-Dibromo-3-chloropropane	<2.0	<11.	<0.30	<2.0	<2.0	<2.0	<2.0	<0.40	<0.50									
1,2-Dibromoethane	<1.5	<6.0	<0.50	<0.65	<0.65	<0.65	<0.65	<0.16	<0.30									
1,2-Dichlorobenzene	<3.5	<5.0	<0.50	<2.0	<2.0	<2.0	<2.0	<0.23	<0.40									
1,2-Dichloroethane	<4.5	<5.0	<0.50	<1.5	<1.5	<1.5	<1.5	<0.30	<0.30									
cis-1,2-Dichloroethene	<2.5	<6.0	0.78	<2.0	<2.0	<2.0	<2.0	<0.25	<0.30									
trans-1,2-Dichloroethene	<2.0	<6.0	<0.40	<2.5	<2.5	<2.5	<2.5	<0.25	<0.30									
1,2-Dichloropropane	<2.0	<5.0	<0.50	<1.1	<1.1	<1.1	<1.1	<0.22	<0.29									
1,3,5-Trimethylbenzene	**57**	**72**	**33**	**72**	**79**	**110**	**120**	**39**	**19**									
1,3-Dichlorobenzene	<2.5	<5.0	<0.40	<2.0	<0.95	<2.0	<2.0	<0.26	<0.30									
cis-1,3-Dichloropropene	<3.0	<1.2	<0.15	<0.70	<0.70	<0.70	<0.70	<0.19	<0.28									
1,3-Dichloropropane	<6.0	<6.0	<0.50	<0.95	<0.95	<0.95	<0.95	<0.23	<0.30									
trans-1,3-Dichloropropene	<3.5	<1.4	<0.14	<0.70	<0.70	<0.70	<0.70	<0.19	<0.30									
1,4-Dichlorobenzene	<2.5	<5.0	<0.60	<2.5	<2.5	<2.5	<2.5	<0.23	<0.30									
2,2-Dichloropropane	<3.0	<6.0	<0.60	<1.5	<1.5	<1.5	<1.5	<0.25	<0.28									
2-Butanone (MEK)		<70.	<5.0	<20	<20	<20	<20	<2.4	<3.0									
2-Chloroethyl vinyl ether																		
2-Chlorotoluene	<3.0	<5.0	<0.50	<1.5	<1.5	<1.5	<1.5	<0.22	<0.30									
2-Hexanone		<70.	<8.0	<20	<20	<20	<20	<4.0	<4.0									
4-Chlorotoluene	<3.0	<4.0	<0.60	<1.5	<1.5	<1.5	<1.5	<0.21	<0.29									
4-Methyl-2-Pentanone (MIBK)		<70.	<6.0	<15	<15	<15	<15	<3.0	<3.0									
Acetone		<90.	**23**	<35	<35	<35	<35	<5.0	<5.0									
Benzene	<2.0	<4.0	<0.40	<0.80	<0.80	<0.80	<0.80	<0.19	<0.30									
Bromobenzene	<2.5	<5.0	<0.60	<1.5	<1.5	<1.5	<1.5	<0.20Q	<0.30									
Bromochloromethane	<2.5	<5.0	<0.70	<1.1	<1.1	<1.1	<1.1	<0.22	<0.40									
Bromodichloromethane	<2.0	<1.3	<0.15	<0.95	<0.95	<0.95	<0.95	<0.20	<0.30									
Bromoform	<3.0	<5.0	<0.21	<2.5	<2.5	<2.5	<2.5	<0.22	<0.24									
Bromomethane	<4.0	<8.0	<0.90	<2.0	<2.0	<2.0	<2.0	<0.50	<0.30									
n-Butylbenzene	**78**	**42**	**9.1**	**20**	<1.2	**37**	**41**	**9**	**4.4**									
sec-Butylbenzene	**21**	**16**	**12**	**15**	**15**	**27**	**26**	**8.3**	**17**									
tert-Butylbenzene	<2.5	**7.2**	**4.8**	**6.8**	**7.5**	**8.9**	**9**	**4**	**6.2**									
Carbon disulfide		<11.	<1.0	<2.5	<2.5	<2.5	<2.5	<0.50	<0.60									
Carbon tetrachloride	<3.0	<5.0	<0.50	<2.0	<2.0	<2.0	<2.0	<0.23	<0.40									
Chlorobenzene	<4.0	<5.0	<0.40	<1.5	<1.5	<1.5	<1.5	<0.24	<0.30									
Chlorodibromomethane	<2.0	<6.0	<0.60	<1.2	<1.2	<1.2	<1.2	<0.19	<0.26									
Chloroethane	<2.5	<7.0	<0.60	<2.0	<2.0	<2.0	<2.0	<0.40	<0.30									

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W17

Parameter	07/13/04	07/20/05	07/18/06	07/10/07	07/23/08	07/06/09	7/6/2009 Duplicate	07/15/10	07/19/11	07/06/12	7/6/2012 Duplicate	7/2/2013	7/16/2014	7/9/2015	7/7/2016	7/17/2017	7/11/2018	7/11/2019
Chloroform	<3.0	<5.0	<0.50	<1.1	<1.1	<1.1	<1.1	<0.15	<0.23									
Chloromethane	<2.0	<2.4	**0.32**	<1.5	<1.5	<1.5	<1.5	<0.40	<0.40									
Dibromomethane	<2.5	<7.0	<0.80	<2.0	<2.0	<2.0	<2.0	<0.24	<0.30									
Dichlorodifluoromethane	<2.5	<6.0	<0.29	<2.0	<2.0	<2.0	<2.0	<0.26	<0.30									
Diisopropyl Ether	<2.5	<5.0	<0.40	<2.5	<2.5	<2.5	<2.5	<0.20	<0.30									
Ethylbenzene	<2.5	<5.0	<0.50	<1.4	<1.4	<1.4	<1.4	**2.1**	**2**									
Hexachlorobutadiene	<2.5	<6.0	<0.90	<3.0	<3.0	<3.0	<3.0	<0.30	<0.40									
Isopropylbenzene	**4.1 J**	<4.0	**3.2**	**3.3**	**6.4**	**5**	**5.4**	**3.4**	**8.8**									
p-Isopropyltoluene	**16**	**28 A**	**12**	**24**	**21**	**41**	**45**	**7.4**	**4.2**									
Methyl tert-butyl ether	<2.5	<6.0	<0.40	<1.2	<1.2	<1.2	<1.2	<0.29	<0.30									
Methylene chloride	**19 J,A,B,Q**	<4.0	<1.0	**3**	<2.5	<2.5	<2.5	<0.40	<0.40									
Naphthalene	**16**	<6.0	**17**	**13**	**24**	**32**	**38**	**4.6**	<0.40	<0.32	<0.32	**19**	**8.5**	**6.9**	**3.4**	**7.1**	**4**	**2.7**
n-Propylbenzene	<2.5	<4.0	**1.9**	**2**	**1.5**	**4.6**	**4.9**	**3.5**	**4**									
Styrene	<2.5	<5.0	<0.50	<1.5	<1.5	<1.5	<1.5	<0.20	<0.30									
Tetrachloroethene	<2.5	<4.0	0.43	<2.0	<2.0	<2.0	<2.0	**0.73**	**0.67**									
Tetrahydrofuran		<70	<7.0	<20	<20	<20	<20	<3.0	<4.0									
Toluene	<2.5	<4.0	<0.40	<1.0	<1.0	<1.0	<1.0	<0.22	<0.30									
Trichloroethene	**11**	**18**	**14**	**10**	**10**	**7.6**	**8.4**	**1.1**	**0.75**									
Trichlorofluoromethane	<2.0	<5.0	<0.70	<2.0	<2.0	<2.0	<2.0	<0.20	<0.40									
Vinyl acetate		<80.	<1.7	<5.5	<5.5	<5.5	<5.5	<3.0	<4.0									
Vinyl chloride	<1.5	<1.2	<0.15	<0.75	<0.75	<0.75	<0.75	<0.18	<0.19									
Xylene, m & p-	**5.2 J**	<10.	**4.4**	**4.9**	**3.7**	**5**	**5.8**	**3.9**	**2.9**			**2.8**	<2.0	<2.2	<1.6	<0.80	<0.80	<0.80
Xylene, o-	**27**	**12**	**16**	**17**	**20**	**20**	**21**	**18**	**4.4**			**22**	**22**	**8.9**	**4.1**	**6.7**	**6.6**	**4.2**
Xylenes, Total		**12**	**20.4**	**21.9**	**23.7**	**25**	**26.8**	**21.9**	**7.3**			**24.8**	**22**	**8.9**	**4.1**	**6.7**	**6.6**	**4.2**

Prepared By: T. Dushek, 8/20/19

Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/31/01	07/11/01	08/06/02	07/23/03
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.20	<0.4	<0.90	<0.90
1,1,1-Trichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<50	<50	<5	<1	<1	<1	<1	**1.3**	<1	<0.2	<0.2	<0.2	<0.20	<0.4	<0.80	<0.80
1,1,2-Trichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90
1,1-Dichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.4	<0.50	<0.50
1,1-Dichloroethene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.20	<0.9	<0.40	<0.40
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.20	<0.4	<0.50	<0.50
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.30	<0.5	<0.50	<0.50
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.10	<0.3	<0.80	<0.80
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.30	<0.5	<0.50	<0.50
1,2,4-Trimethylbenzene				**600**	**330**	**600**	**480**		**204.1**	**380**	**50**	<0.6	<0.10	<0.2	<0.50	<0.50
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.10	<0.3	<0.30	<0.30
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70
1,2-Dichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.20	<0.4	<0.90	<0.90
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	0.2	0.2	<0.20	<0.4	<0.50	<0.50
trans-1,2-Dichloroethene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.8	<0.40	<0.40
1,2-Dichloropropane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.20	<0.3	<0.40	<0.40
1,3,5-Trimethylbenzene				**3.4**	**28**	**11**	**10**		**5.4**	<0.4	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50
cis-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.10	<0.2	<0.60	<0.60
1,3-Dichloropropane				<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.10	<0.4	<1.2	<1.2
trans-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.5	<0.70	<0.70
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.10	<0.4	<0.50	<0.50
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.20	<0.2	<0.60	<0.60
2-Butanone (MEK)	<100	<100	<10													
2-Chloroethyl vinyl ether								<10								
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.10	<0.4	<0.60	<0.60
2-Hexanone	<100	<100	<10													
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60
4-Methyl-2-Pentanone (MIBK)	<100	<100	<10													
Acetone	<100	**1950**	**25**													
Benzene	<50	<50	<5	**2.1**	**1.7**	**3.2**	**2.3**	<1	<1	<0.2	**1.1**	<0.3	<0.10	<0.1	<0.40	<0.40
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.10	<0.5	<0.50	<0.50
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.10	<0.4	<0.50	<0.50
Bromodichloromethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40
Bromoform	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.20	<0.1	<0.60	<0.60
Bromomethane	<100	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.40	<0.4	<0.80	<0.80
n-Butylbenzene				**100**	**40**	**45**	**41**		**27.1**	**22**	**6.5**	<0.3	<0.10	<0.4	<0.50	<0.50
sec-Butylbenzene				**28**	**14**	**21**	**21**		**16.1**	**14**	**10**	**0.7**	<0.20	<0.3	<0.50	<0.50
tert-Butylbenzene				<1	<1	<1	**180**		<1	<0.3	**3.8**	<0.3	<0.10	<0.1	<0.50	<0.50
Carbon disulfide	<50	<50	<5													
Carbon tetrachloride	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.10	<0.3	<0.60	<0.60
Chlorobenzene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80
Chlorodibromomethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.20	<0.4	<0.40	<0.40
Chloroethane	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.40	<0.5	<0.50	<0.50
Chloroform	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.5	<0.60	<0.60
Chloromethane	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.20	<0.3	<0.40	<0.40
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.20	<0.4	<0.50	<0.50
Dichlorodifluoromethane				<2	<5	<2	<2		<2	<0.3	<1.2	<1.2	<0.10	<0.5	<0.50	<0.50

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

Parameter	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	01/31/01	07/11/01	08/06/02	07/23/03
Diisopropyl Ether					<1							<0.3	<0.10	<0.1	<0.50	<0.50
Ethylbenzene	<50	<50	**29.8**	**21**	**18**	**34**	**20**	**8.3**	**8.3**	<0.2	**1.6**	<0.2	<0.10	<0.1	<0.50	<0.50
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50
Isopropylbenzene				**36**	**19**	**33**	**28**		**15.1**	**16**	**6.6**	<0.2	<0.10	<0.1	<0.50	<0.50
p-Isopropyltoluene				<1	**5.7**	<1	**1.8**		<1	<0.4	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50
Methyl tert-butyl ether					<1							<0.2	<0.30	<1.1	<0.50	<0.50
Methylene chloride	**742**	**644**	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<0.40	<1.9	<1.0	<1.0
Naphthalene	**44**	**46.3**	**59.3**	**100**	**70**	**90**	**18**	**75**	**68.1**	**54**	**70**	<1.1	<0.20	<0.7	<0.50	<0.50
n-Propylbenzene				**33**	**30**	**54**	**40**		**20.2**	**26**	**7.2**	<0.2	<0.10	<0.3	<0.50	<0.50
Styrene	<50	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50
Tetrachloroethene	<50	<50	<5	<1	<1	**2.5**	**2.2**	<1	**1.3**	<0.3	**2**	<0.6	<0.10	<0.4	<0.50	<0.50
Tetrahydrofuran																
Toluene	<50	<50	**6.47**	<1	**4.1**	**3.3**	**1.3**	**1.2**	<1	<0.2	<0.2	<0.2	<0.20	<0.1	<0.50	<0.50
Trichloroethene	<50	<50	<5	**6.3**	**4.3**	**7.4**	**4.4**	**2.8**	**2.9**	<0.2	**2.3**	<0.3	<0.20	<0.3	<0.60	<0.60
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.20	<0.4	<0.40	<0.40
Vinyl acetate	<100	<100	<10													
Vinyl chloride	<100	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.10	<0.4	<0.30	<0.30
Xylene, m & p-				**19**	**34**	**39**	**32**	**12**	**10.7**	<0.4	**3.2**	<0.3	<0.20	<0.2	<0.60	<0.60
Xylene, o-				**160**	**120**	**170**	**16**	**29**	**34.5**	**54**	**4.8**	<0.5	<0.10	<0.1	<0.50	<0.50
Xylenes, Total	**123**	**122**	**195**													

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

Parameter	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/19/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	07/11/18	07/08/19
1,1,1,2-Tetrachloroethane	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane	<0.40	<1.1	<0.30	<0.40	<0.40M	<0.40	<0.40	<0.50								
1,2-Dibromoethane	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)		<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether																
2-Chlorotoluene	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone		<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)		<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone		<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene	<0.50	14	<0.40	<0.24	<0.24	<0.24	<0.23	**0.41**								
sec-Butylbenzene	<0.50	8	<0.50	<0.29	<0.29	<0.29	<0.21	**17**								
tert-Butylbenzene	<0.50	5.6	<0.50	<0.23	<0.23	<0.23	<0.20	**5.7**								
Carbon disulfide		<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<0.40	<0.24	<0.30	<0.30	<0.30	**1.1AB**	<0.40	<0.40								
Dibromomethane	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								

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

Parameter	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/19/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	07/11/18	07/08/19
Diisopropyl Ether	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	**3.1 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	**0.4**	<0.40								
Naphthalene	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	**0.44**								
Tetrahydrofuran		0.60	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<0.60	**<0.15**	**0.47**	**0.31**	<0.15	**0.37**	**0.28**	<0.40								
Trichlorofluoromethane	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate		<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total			<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W19

Parameter	07/11/01	07/22/03	07/13/04	07/20/05	07/20/06	07/11/07	7/11/2007 Duplicate	07/24/08	07/07/09	07/14/10	07/19/11	07/06/12	07/01/13	07/08/14	07/08/15	07/07/16	07/17/17	07/11/18
1,1,1,2-Tetrachloroethane	<4.0	<0.9	<1.8	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40							
1,1,1-Trichloroethane	<3.0	<0.5	<1.0	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29							
1,1,2,2-Tetrachloroethane	<4.0	<0.8	<1.6	<0.15	<0.13	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30							
1,1,2-Trichloroethane	<2.0	<0.9	<1.8	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30							
1,1-Dichloroethane	<4.0	<0.5	<1.0	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28							
1,1-Dichloroethene	<9.0	<0.4	<0.80	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29							
1,1-Dichloropropene	<4.0	<0.5	<1.0	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.40							
1,2,3-Trichlorobenzene	<5.0	<0.5	<1.0	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40							
1,2,3-Trichloropropane	<3.0	<0.8	<1.6	<0.60	<0.70	<0.30	<0.30	<0.30	<0.30	<0.21	<0.40							
1,2,4-Trichlorobenzene	<5.0	<0.5	<1.0	<0.70	<0.70	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30							
1,2,4-Trimethylbenzene	**310**	**10**	**26**	**1.9**	**2.9**	**13**	**13**	**6.3**	**7.8**	**5.7**	**11**		**10**	**20**	**12**	**52**	**3.1**	**31**
1,2-Dibromo-3-chloropropane	<3.0	<0.4	<0.80	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50							
1,2-Dibromoethane	<3.0	<0.3	<0.60	<0.60	<0.50	<0.13	<0.13	<0.13	<0.13	<0.16	<0.30							
1,2-Dichlorobenzene	<3.0	<0.7	<1.4	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40							
1,2-Dichloroethane	<4.0	<0.9	<1.8	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30							
cis-1,2-Dichloroethene	<4.0	<0.5	<1.0	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30							
trans-1,2-Dichloroethene	<8.0	<0.4	<0.80	<0.60	<0.40	<0.50	<0.50	<0.50	<0.50	<0.25	<0.30							
1,2-Dichloropropane	<3.0	<0.4	<0.80	<0.50	<0.50	<0.21	<0.21	<0.21	<0.21	<0.22	<0.29							
1,3,5-Trimethylbenzene	**140**	**9.9**	**17**	**1.5**	**3.8**	**6.6**	**7**	**2.7**	**3.8**	**3.4**	**5.1**							
1,3-Dichlorobenzene	<4.0	<0.5	<1.0	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30							
cis-1,3-Dichloropropene	<2.0	<0.6	<1.2	<0.12	<0.15	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28							
1,3-Dichloropropane	<4.0	<1.2	<1.4	<0.60	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30							
trans-1,3-Dichloropropene	<5.0	<0.7	<2.4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30							
1,4-Dichlorobenzene	<4.0	<0.5	<1.0	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30							
2,2-Dichloropropane	<2.0	<0.6	<1.2	<0.60	<0.60	<0.30	<0.30	<0.30	<0.30	<0.25	<0.28							
2-Butanone (MEK)				<7.0	**7.8**	**11**	**9.9**	<4.0	<4.0	<2.4	<3.0							
2-Chlorethyl vinyl ether																		
2-Chlorotoluene	<4.0	<0.6	<1.2	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30							
2-Hexanone				<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0							
4-Chlorotoluene	<3.0	<0.6	<1.2	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29							
4-Methyl-2-Pentanone (MIBK)				<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0							
Acetone				<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0							
Benzene	<1.0	<0.40	<0.80	<0.40	<0.40	<0.16	<0.16	<0.16	<0.16	<0.19	<0.30							
Bromobenzene	<5.0	<0.5	<1.0	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.20Q	<0.30							
Bromochloromethane	<4.0	<0.5	<1.0	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40							
Bromodichloromethane	<2.0	<0.4	<0.80	<0.13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.20	<0.30							
Bromoform	<1.0	<0.6	<1.2	<0.50	<0.21	<0.50	<0.50	<0.50	<0.50	<0.22	<0.24							
Bromomethane	<4.0	<0.8	<1.6	<0.80	<0.90	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30							
n-Butylbenzene	**180**	**15**	**26**	<0.60	**2.9**	**2**	**2.3**	**1**	**1.3**	**0.37**	**1.3**							
sec-Butylbenzene	**29**	**6.7**	**4.6**	**1.4**	**3.5**	**2.9**	**3**	**3.8**	**1.7**	**2.4**	**2.5**							
tert-Butylbenzene	<1.0	**9.0**	**5.3**	<0.50	**1.3**	**1.1**	**1.1**	**1.1**	**0.62**	**0.39**	**1.1**							
Carbon disulfide				<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60							
Carbon tetrachloride	<3.0	<0.6	<1.2	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40							
Chlorobenzene	<3.0	<0.8	<1.6	<0.50	<0.40	<0.30	<0.30	<0.30	<0.30	<0.24	<0.30							
Chlorodibromomethane	<4.0	<0.4	<0.80	<0.60	<0.60	<0.23	<0.23	<0.23	<0.23	<0.19	<0.26							
Chloroethane	<5.0	**1.8**	<1.0	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30							
Chloroform	<5.0	**2.0**	**1.4 J**	**1.4**	**1.1**	**0.5**	**0.55**	**0.39**	**0.31**	**0.3**	<0.23							
Chloromethane	<3.0	<0.4	<0.80	<0.24	<0.30	<0.30	<0.30	<0.30	**0.92AB**	<0.40	<0.40							
Dibromomethane	<4.0	<0.5	<1.0	<0.70	<0.80	<0.40	<0.40	<0.40	<0.40	<0.24	<0.30							

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W19

Parameter	07/11/01	07/22/03	07/13/04	07/20/05	07/20/06	07/11/07	7/11/2007 Duplicate	07/24/08	07/07/09	07/14/10	07/19/11	07/06/12	07/01/13	07/08/14	07/08/15	07/07/16	07/17/17	07/11/18
Dichlorodifluoromethane	<5.0	<0.5	<1.0	<0.60	<0.29	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30							
Diisopropyl ether	<1.0	<0.5	<1.0	<0.50	<0.40	<0.50	<0.50	<0.50	<0.50	<0.20	<0.30							
Ethylbenzene	<1.0	<0.5	<1.0	<0.50	<0.50	**0.33**	**0.34**	<0.28	<0.28	**0.29**	<0.29							
Hexachlorobutadiene	<6.0	<0.5	<1.0 **M**	<0.60	<0.90	<0.60	<0.60	<0.60	<0.60	<0.30	<0.40							
Isopropylbenzene	**24**	**7.5**	**4.7**	**0.62**	**0.77**	**2**	**2**	**1.8**	**1.1**	**1.4**	**2.8**							
p-Isopropyltoluene	**29**	**8.2**	**7.5**	**0.55**	**2.5**	**2.4**	**2.8**	**1.2**	**1.2**	<0.23	**0.78**							
Methyl tert-butyl ether	<11	<0.5	<1.0	<0.60	<0.40	<0.23	<0.23	<0.23	<0.23	<0.29	<0.30							
Methylene chloride	<19	<1.0	**7.3 A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40							
Naphthalene	**27**	**2.4**	**2.2 J**	<0.60	<0.70	**1.4**	**1.4**	**0.85**	**1.4**	<0.40	**1.8**	<0.32	**2.3**	**2.2**	**1.8**	**3.5**	**0.98**	**2**
n-Propylbenzene	**56.0**	**7.2**	**5.6**	**1.1**	**1.2**	**3.2**	**3.3**	**2**	**1.8**	**2.8**	**3.9**							
Styrene	<2.0	**16**	**15**	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30							
Tetrachloroethene	<4.0	**2.8**	**2.3 J**	<0.40	**0.29**	<0.40	<0.40	<0.40	**0.45**	<0.30	**0.38**							
Tetrahydrofuran				<7.0	<7.0	<4.0	<4.0	<4.0	<4.0	<3.0	<4.0							
Toluene	<1.0	<0.5	<1.0	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.22	<0.30							
Trichloroethene	<3.0	**0.63**	<1.2	**0.8**	**0.43**	**0.33**	**0.31**	**0.33**	**0.25**	**0.68**	<0.40							
Trichlorofluoromethane	<4.0	<0.4	<0.80	<0.50	<0.70	<0.40	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate				<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<4.0	<0.3	<0.60	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
m & p-Xylene	**5.6**	**2.6**	**1.8 J**	<1.0	<0.9	**0.61**	**0.62**	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	**2.9**	<0.80	**0.87**
o-Xylene	**23**	**5.0**	<1.0	**0.86**	<0.60	**2.4**	**2.6**	**1.7**	**1.6**	**10**	**7.4**		**4.2**	**6.9**	**4.8**	**12**	**1.8**	**8.3**
Xylenes, Total				**0.86**	<1.5	**3.01**	**3.22**	**1.7**	**1.6**	**10**	**7.4**		**4.2**	**6.9**	**4.8**	**14.9**	**1.8**	**9.17**

Prepared By: T. Dushek, 12/5/18
Checked by: A.Voit, 12/16/18

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/08/14	07/07/15	07/05/16	07/10/17	07/10/18	07/09/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3		<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5	0	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	**22.3**															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1	0	<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1	0	<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<5	<1	<1	<1	<1	<1	<0.2	<0.2	**5.6**	<0.5	**0.41**	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**2.2AB**	<0.40	<0.40								
Dibromomethane		<1	<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3.0 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene		<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.33	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	**0.93**	**1.9**	**0.86**	**0.65**								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								

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

Parameter	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	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/08/14	07/07/15	07/05/16	07/10/17	07/10/18	07/09/19
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	08/07/02	07/21/05	07/20/06	07/11/07	07/24/08	07/07/09	07/15/10	7/15/2010 Duplicate	07/19/11	07/10/12	07/08/13	07/08/14	07/09/15	07/11/16	07/18/17	07/18/18	07/18/19
1,1,1,2-Tetrachloroethane				<10		<1	<1		<5	<0.1	<0.3	<23	<10.0	<3.5 *	<3.0	<3.0	<6	<0.24	<0.24	<0.40								
1,1,1-Trichloroethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.3	<0.3	<13	<12.0	<2.5 *	<3.0	<3.0	<6	<0.21	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2	<20	<3.0	<0.65 *	<0.70	<0.70	<1.4	<0.19	<0.19	<0.30								
1,1,2-Trichloroethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<1	<0.2	<23	<8.0	<2.5 *	<2.5	<2.5	<5	<0.26	<0.26	<0.30								
1,1-Dichloroethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2	<13	<10.0	<2.0 *	<2.0	<2.0	<4	<0.20	<0.20	<0.28								
1,1-Dichloroethene	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.4	<0.2	<10	<10.0	<1.5 *	<2.0	<2.0	<4	<0.24	<0.24	<0.29								
1,1-Dichloropropene				<10		<1	<1		<5	<0.2	<0.3	<13	<10.0	<3.0 *	<2.5	<2.5	<5	<0.24	<0.24	<0.40								
1,2,3-Trichlorobenzene				<10	<1	<1	<1		<5	<0.5	<0.4	<13	<12.0	<2.5 *	<2.5	<2.5	<5	<0.30	<0.30	<0.40								
1,2,3-Trichloropropane				<10		<1	<1		<5	<0.3	<0.2	<20	<12.0	<3.5 *	<1.5	<1.5	<3	<0.21	<0.21	<0.40								
1,2,4-Trichlorobenzene				<10	<1	<1	<1		<5	<0.5	<0.3	<13	<14.0	<3.5 *	<2.0	<2.0	<4	<0.30	<0.30	<0.30								
1,2,4-Trimethylbenzene				**1500**	**3.8**	**1500**	**1000**		**121**	**360**	**820**	**640**	**470**	**180 ***	**340**	**480**	**360**	**46**	**78**	**62**		**300**	**250**	**310**	**300**	**270**	**540**	<0.4
1,2-Dibromo-3-chloropropane				<30	<3	<3	<3		<15	<0.3	<0.3	<10	<22.	<1.5 *	<2.0	<2.0	<4	<0.40	<0.40	<0.50								
1,2-Dibromoethane				<20	<2	<2	<2		<10	<0.2	<0.4	<7.5	<12.0	<2.5 *	<0.65	<0.65	<1.3	<0.16	<0.16	<0.30								
1,2-Dichlorobenzene				<10	<1	<1	<1	<20	<5	<0.3	<0.3	<18	<10.0	<2.5 *	<2.0	<2.0	<4	<0.23	<0.23	<0.40								
1,2-Dichloroethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2	<23	<10.0	<2.5 *	<1.5	<1.5	<3	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene				<10	<1	**1.4**	<1	<20	<5	<0.2	0.2	<13	<12.0	<2.0 *	<2.0	<2.0	<4	<0.25	<0.25	<0.30								
trans-1,2-Dichloroethene	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	0.2	<10	<12.0	<2.0 *	<2.5	<2.5	<5	<0.25	<0.25	<0.30								
1,2-Dichloropropane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.1	<0.2	<10	<10.0	<2.5 *	<1.1	<1.1	<2.1	<0.22	<0.22	<0.29								
1,3,5-Trimethylbenzene				**310**	**2.9**	**360**	**220**		**23**	**24**	**110**	**330**	**380**	**6.3***	**31**	**72**	**31**	**47**	**34**	**20**								
1,3-Dichlorobenzene				<10	<1	<1	<1	<20	<5	<0.7	<0.4	<13	<10.0	<2.0*	<2.0	<0.95	<4	<0.26	<0.26	<0.30								
cis-1,3-Dichloropropene	<5	<50	<50	<10		<1	<1	<20	<5	<0.3	<0.3	<15	<2.4	<0.75*	<0.70	<0.70	<1.4	<0.19	<0.19	<0.28								
1,3-Dichloropropane				<10	<1	<1	<1		<5	<0.3	<0.6	<30	<12.0	<2.5*	<0.95	<0.95	<1.9	<0.23	<0.23	<0.30								
trans-1,3-Dichloropropene	<5	<50	<50	<10		<1	<1	<20	<5	<0.2	<0.2	<18	<2.8	<0.70*	<0.70	<0.70	<1.4	<0.19	<0.19	<0.30								
1,4-Dichlorobenzene				<10	<1	<1	<1	<20	<5	<0.3	<0.3	<13	<10.0	<3.0 *	<2.5	<2.5	<5	<0.23	<0.23	<0.30								
2,2-Dichloropropane				<10	<1	<1	<1		<5	<0.2	<0.5	<15	<12.0	<3.0 *	<1.5	<1.5	<3	<0.25	<0.25	<0.28								
2-Butanone (MEK)	<10	<100	<100										<140.	<25 *	<20	<20	<40	<2.4	<2.4	<3.0								
2-Chloroethyl vinyl ether								<200																				
2-Chlorotoluene				<10	<1	<1	<1		<5	<0.4	<0.3	<15	<10.0	<2.5 *	<1.5	<1.5	<3	<0.22	<0.22	<0.30								
2-Hexanone	<10	<100	<100										<140.	<40 *	<20	<20	<40	<4.0	<4.0	<4.0								
4-Chlorotoluene				<10	<1	<1	<1		<5	<0.3	<0.3	<15	<8.0	<3.0 *	<1.5	<1.5	<3	<0.21	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10	<100	<100										<140.	<30 *	<15	<15	<30	<3.0	<3.0	<3.0								
Acetone	**11.1**	**2120**	<100										<180.	<50 *	<35	<35	<70	<5.0	<5.0	<5.0								
Benzene	**26.1**	<50	<50	**42**	<1	**34**	**21**	<20	**7**	**10**	**32**	**15**	<8.0	**3.4 ***	**1.1**	**1.8**	**2.9**	<0.19	<0.19	<0.30								
Bromobenzene				<10	<1	<1	<1		<5	<0.3	<0.2	<13	<10.0	<3.0 *	<1.5	<1.5	<3	<0.20Q	<0.20Q	<0.30								
Bromochloromethane				<10		<1	<1		<5	<0.4	<0.2	<13	<10.0	<3.5 *	<1.1	<1.1	<2.1	<0.22	<0.22	<0.40								
Bromodichloromethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.2	<10	<2.6	<0.75 *	<0.95	<0.95	<1.9	**0.47**	**0.36**	**0.46**								
Bromoform	<5	<50	<50	<10		<1	<1	<20	<5	<0.3	<0.2	<15	<10.0	<1.1 *	<2.5	<2.5	<5	<0.22	<0.22	<0.24								
Bromomethane	<10	<100	<100	<20		<2	<2	<40	<10	<0.3	<0.9	<20	<16.0	<4.5 *	<2.0	<2.0	<4	<0.50	<0.50	<0.30								
n-Butylbenzene				**210**	**2.1**	**73**	**100**		**48**	**32**	**150**	**920**	**240**	**12 ***	**20**	**18**	**23**	**38**	**33**	**15**								
sec-Butylbenzene				**43**	<1	**29**	**58**		**19**	**12**	**55**	**130**	**140**	**16 ***	**21**	**20**	**27**	**22**	**18**	**19**								
tert-Butylbenzene				<10	<1	<1	**350**		<5	<0.3	<0.3	<13	**23**	**5.6 ***	**6.4**	**7.3**	**9**	**3.4**	**2.4**	**4.1**								
Carbon disulfide	<5	<50	<50										<22.	<5.0 *	<2.5	<2.5	<5	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.2	<0.4	<15	<10.0	<2.5 *	<2.0	<2.0	<4	<0.23	<0.23	<0.40								
Chlorobenzene	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.3	<0.3	<20	<10.0	<2.0 *	<1.5	<1.5	<3	<0.24	<0.24	<0.30								
Chlorodibromomethane	<5	<50	<50	<10	<1	<1	<1	<20	<5	<0.3	<0.3	<10	<12.0	<3.0 *	<1.2	<1.2	<2.3	<0.19	<0.19	<0.26								
Chloroethane	<10	<100	<100	<20	<2	<2	<2	<40	<10	<0.4	<0.8	<13	<14.0	<3.0 *	<2.0	<2.0	<4	<0.40	<0.40	<0.30								
Chloroform	**6.55**	<50	<50	<10	<1	**2.6**	<1	<20	<5	<0.2	<0.2	<15	<10.0	<2.5 *	<1.1	**2.2**	<2.2	**5.9**	**5.9**	**14**								
Chloromethane	<10	<100	<100	<20	<2	<2	<2	<40	<10	<0.7	<0.9	<10	<4.8	<1.5 *	<1.5	<1.5	<3	<0.40	<0.40	<0.40								
Dibromomethane				<10		<1	<1		<5	<0.1	<0.2	<13	<14.0	<4.0 *	<2.0	<2.0	<4	<0.24	<0.24	<0.30								
Dichlorodifluoromethane				<20	<2	<2	<2		<10	<0.3	<0.3	<13	<12.0	<1.5 *	<2.0	<2.0	<4	<0.26	<0.26	<0.30								
Diisopropyl Ether					<1								<10.0	<2.0 *	<2.5	<2.5	<5	<0.20	<0.20	<0.30								
Ethylbenzene	**91.6**	<50	**86.7**	**110**	<1	**77**	**60**	**28**	**10**	**16**	**50**	**22**	<10.0	**5.9 ***	**7.4**	**14**	**12**	**0.75**	**0.54**	**1.7**								
Hexachlorobutadiene				<10	<1	<1	<1		<5	<0.5	<0.6	<13	<12.0	<4.5 *	<3.0	<3.0	<6	<0.30	<0.30	<0.40								

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

Parameter	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	08/07/02	07/21/05	07/20/06	07/11/07	07/24/08	07/07/09	07/15/10	7/15/2010 Duplicate	07/19/11	07/10/12	07/08/13	07/08/14	07/09/15	07/11/16	07/18/17	07/18/18	07/18/19
Isopropylbenzene				**100**	**3.3**	**63**	**50**		**15**	**14**	**62**	**130**	**42**	**23 ***	**25**	**40**	**31**	**3.3**	**1.9**	**9.9**								
p-Isopropyltoluene				<10	<1	**28**	**58**		**13**	<0.4	**45**	**180**	**170 A**	**5 ***	**12**	**9.2**	**8.1**	**29**	**24**	**11**								
Methyl tert-butyl ether					<1							<13	<12.0	<2.0 *	<1.2	<1.2	<2.3	<0.29	<0.29	<0.30								
Methylene chloride	<5	**946**	**142**	<30	<3	<3	<3	<60	<15	<0.3	<0.5	<25	<8.0	**15 Q***	<2.5	<2.5	<5	<0.40	<0.40	**1.2 B**								
Naphthalene	**122**	<10	**108**	**260**	<1	**140**	**110**	**130**	**70**	**70**	**110**	**95**	**51**	**82 ***	**26**	**47**	**64**	**1.7**	**1.4**	**2.8**	**22**	**97**	**36**	**36**	**45**	**47**	**69**	<0.9
n-Propylbenzene				**120**	**1.6**	**120**	**120**		**25**	**28**	**92**	**120**	**98**	**11 ***	**17**	**30**	**28**	**14**	**10**	**8.8**								
Styrene	<5	<50	<50	<10		<1	<25		<5	<0.2	<0.2	**440**	<10.0	<2.5 *	<1.5	<1.5	<3	<0.20	<0.20	<0.30								
Tetrachloroethene	<5	<50	<50	<10	<1	**3.9**	**4**	<20	<5	<0.3	<0.6	**69**	<8.0	<1.5 *	<2.0	<2.0	<4	<0.30	<0.30	<0.30								
Tetrahydrofuran													<140	<35 *	<20	<20	<40	<3.0	<3.0	<4.0								
Toluene	**100**	<50	**114**	**140**	<1	**90**	**55**	<20	**6**	<0.2	**25**	**20**	<8.0	**2.8 ***	**1.8**	**8**	**4.9**	<0.22	<0.22	<0.30								
Trichloroethene	**72**	<50	**92**	**85**	<1	**71**	**28**	<20	**15**	**24**	**32**	<15	**13**	**14 ***	**5.7**	**7**	**10**	<0.21	<0.21	<0.40								
Trichlorofluoromethane				<10	<1	<1	<1	<20	<5	<0.5	<0.6	<10	<10.0	<3.5 *	<2.0	<2.0	<4	<0.20	<0.20	<0.40								
Vinyl acetate	<10	<100	<100										<160.	<8.5 *	<5.5	<5.5	<11	<3.0	<3.0	<4.0								
Vinyl chloride	<10	<100	<100	<10	<1	<1	<1	<20	<5	<0.3	<0.5	<7.5	<2.4	<0.75 *	<0.75	<0.75	<1.5	<0.18	<0.18	<0.19								
Xylene, m & p-				**700**	<2	**440**	**350**	**110**	**22**	**20**	**80**	**82**	**23**	**9.5 ***	**15**	**41**	**27**	**4.3**	**3.1**	**3**		**38**	**11**	**13**	**26**	**12**	**30**	<0.8
Xylene, o-				**640**	**2.3**	**590**	**400**	**260**	**61**	**190**	**250**	<13	**89**	**110 ***	**80**	**150**	**120**	**4.7**	**3.5**	**3.2**		**170**	**65**	**97**	**89**	**58**	**130**	<0.4
Xylenes, Total	**472**	<50	**871**										**112**	**119.5 ***	**95**	**191**	**147**	**9**	**6.6**	**6.2**		**208**	**76**	**110**	**115**	**70**	**160**	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	02/19/92	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	01/30/01	07/10/01	08/06/02	07/22/03	07/13/04	07/20/05	7/20/2005 duplicate
1,1,1,2-Tetrachloroethane				<1		<1	<1		<0.1	<0.3	<1.5	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.60
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	**55**	<0.2	<0.2	<1	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.15
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.40
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<1	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.50
1,1-Dichloropropene				<1		<1	<1		<0.2	<0.3	<1.5	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<0.5	<0.4	<2	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.60
1,2,3-Trichloropropane				<1		<1	<1		<0.3	<0.2	<1	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.60
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<0.5	<0.3	<1.5	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70
1,2,4-Trimethylbenzene				**8.8**	**5.2**	**5.2**	**47**		**7**	**58**	**28**	**37**	**1.8**	**32**	<0.50	<0.50	**0.73 J**	**40**	**22**
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<0.3	<0.3	<1.5	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<1.1
1,2-Dibromoethane				<2	<2	<2	<2		<0.2	<0.4	<2	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.60
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50
cis-1,2-Dichloroethene				**44**	<1	**17**	**3**	<1	**8**	**18**	**14**	**7.7**	**8.6**	**2.2**	**2.3**	**2.8**	<0.50	**1.8**	**1.4**
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<1.5	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.60
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<1	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50
1,3,5-Trimethylbenzene				**2.6**	**3.7**	<1	**12**		**2.8**	**20**	**12**	**15**	**0.60**	**13**	**1.4**	**1.5**	<0.50	**14**	**6.9**
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<0.7	<0.4	<2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<0.3	<0.3	<1.5	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.12
1,3-Dichloropropane				<1	<1	<1	<1		<0.3	<0.6	<3	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.60
trans-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<0.2	<0.2	<1	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane				<1	<1	<1	<1		<0.2	<0.5	<2.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60
2-Butanone (MEK)	<10	<100	<10															<7.0	<7.0
2-Chloroethyl vinyl ether								<10											
2-Chlorotoluene				<1	<1	<1	<1		<0.4	<0.3	<1.5	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50
2-Hexanone	<10	<100	<10															<7.0	<7.0
4-Chlorotoluene				<1	<1	<1	<1		<0.3	<0.3	<1.5	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.40
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10															<7.0	<7.0
Acetone	<10	**108**	**13.1**															<9.0	<9.0
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	**2**	<1.5	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40
Bromobenzene				<1	<1	<1	<1		<0.3	<0.2	<1	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane				<1		<1	<1		<0.4	<0.2	<1	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<5	<50	<5	**5.4**	<1	<1	<1	<1	<0.2	<0.2	<1	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.13
Bromoform	<5	<50	<5	<1		<1	<1	<1	<0.3	<0.2	<1	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.50
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<0.3	<0.9	<4.5	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.80

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

Parameter	02/19/92	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	01/30/01	07/10/01	08/06/02	07/22/03	07/13/04	07/20/05	7/20/2005 duplicate
n-Butylbenzene				**6.8**	**3.8**	**2**	**6**		<0.6	**6.2**	**7.5**	**6.9**	**0.11**	**4.5**	**0.98**	**0.66**	<0.50	**2.8 A**	**14**
sec-Butylbenzene				**1.9**	**2.6**	<1	**9.3**		<0.3	**6.8**	**5.5**	**4.5**	**0.39**	**2.5**	**0.8**	<0.5	<0.50	**2.8**	**8**
tert-Butylbenzene				<1	<1	<1	<1		<0.3	**26**	<1.5	<0.1	**0.12**	<0.1	**2.8**	<0.5	<0.50	**0.83**	**5.6**
Carbon disulfide	<5	<50	<5															<1.1	<1.1
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<2	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.50
Chlorodibromomethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60
Chloroethane	<10	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<4	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70
Chloroform	<5	<50	<5	**2.3**	<1	<1	<1	<1	<0.2	<0.2	<1	<0.5	**1.1**	<0.5	<0.60	<0.60	<0.60	**0.62**	**0.58**
Chloromethane	<10	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<4.5	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.24
Dibromomethane				<1		<1	<1		<0.1	<0.2	<1	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.70
Dichlorodifluoromethane				<2	<2	<2	<2		<0.3	<1.2	<6	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.60
Diisopropyl Ether					<1						<1.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<5	<50	<5	<1	<1	<1	**3.4**	**2**	<0.2	**2.8**	<1	<0.5	**0.21**	**1.2**	**0.57**	<0.50	<0.50	**1.6**	**0.91**
Hexachlorobutadiene				<1	<1	<1	<1		<0.5	<0.6	<3	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.60
Isopropylbenzene				**4.2**	**6.3**	<1	**16**		<0.2	**5.6**	**8.5**	**3.2**	**0.34**	**2.8**	**0.85**	**0.52**	<0.50	**4.2**	**2.3**
p-Isopropyltoluene				<1	<1	<1	<1		<0.4	**2.6**	<1	**2**	<0.10	**0.98**	<0.50	<0.50	<0.50	**0.59**	<.40
Methyl tert-butyl ether					<1						<1	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.60
Methylene chloride	<5	**128**	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<2.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3.0 J,A,B,Q**	<0.40	<0.40
Naphthalene	**28**	<10	<10	**3.2**	<1	<1	**19**	**30.5**	<0.8	**11**	**11**	**6.1**	**1.5**	**7.1**	<0.50	<0.50	<0.50	**4.7**	**3.6**
n-Propylbenzene				<1	2.1	<1	**11**		<0.3	**8.2**	**4.5**	**5.9**	**0.44**	**5.5**	**0.93**	**0.75**	<0.50	**7.8**	**4.2**
Styrene	<5	<50	<5	<1		<1	<1		<0.2	<0.2	<1	<0.2	<0.10	<0.2	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	**3**	<3	<0.4	**0.58**	**0.62 J**	**1.5**	**0.98**	**1.0 J**	**0.78**	**0.73**
Tetrahydrofuran																		<7.0	0.60
Toluene	<5	<50	<5	<1	<1	<1	**1.1**	**1.25**	<0.2	**1.8**	<1	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40
Trichloroethene	**221**	<50	**41.3**	**380**	**11**	**130**	**95**	**49.5**	**48**	**130**	**95**	**49**	**39**	**43**	**31**	**34**	**14**	**37**	**<0.15**
Trichlorofluoromethane				<1	<1	<1	<1	<1	<0.5	<0.6	<3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.50
Vinyl acetate	<10	<100	<10															<8.0	<8.0
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<2.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.12
Xylene, m & p-				<2	<2	<2	**16**	**8.1**	<0.4	**6**	<1.5	2.1	**0.22**	**2.2**	**0.99**	<0.60	<0.60	**1.7**	<1.0
Xylene, o-				**3.1**	**2.4**	**1.6**	**100**	**29.5**	**1.6**	**28**	**13**	**15**	**1.3**	**11**	**2.6**	**5.2**	<0.50	**12**	**5.8**
Xylenes, Total	**62**	<50	<5																**5.8**

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

Parameter	07/18/06	7/18/2006 duplicate	07/11/07	07/23/08	07/06/09	07/13/10	7/13/2010 Duplicate	07/19/11	7/19/2011 Duplicate	7/6/2012	7/5/2013	7/9/2014	7/8/2015	7/6/2016	7/11/2017	7/11/2018	7/8/2019
1,1,1,2-Tetrachloroethane	<0.70	<0.70	<1.2	<0.60	<0.60	<0.24	<0.24	<0.40	<0.40								
1,1,1-Trichloroethane	<0.50	<0.50	<1.2	<0.60	<0.60	<0.21	<0.21	<0.29	<0.29								
1,1,2,2-Tetrachloroethane	<0.13	<0.13	<0.28	<0.14	<0.14	<0.19	<0.19	<0.30	<0.30								
1,1,2-Trichloroethane	<0.50	<0.50	<1.0	<0.50	<0.50	<0.26	<0.26	<0.30	<0.30								
1,1-Dichloroethane	<0.40	<0.40	<0.80	<0.40	<0.40	<0.20	<0.20	<0.28	<0.28								
1,1-Dichloroethene	<0.30	<0.30	<0.80	<0.40	<0.40	<0.24	<0.24	<0.29	<0.29								
1,1-Dichloropropene	<0.60	<0.60	<1.0	<0.50	<0.50	<0.24	<0.24	<0.40	<0.40								
1,2,3-Trichlorobenzene	<0.50	<0.50	<1.0	<0.50	<0.50	<0.30	<0.30	<0.40	<0.40								
1,2,3-Trichloropropane	<0.70	<0.70	<0.60	<0.30	<0.30	<0.21	<0.21	<0.40	<0.40								
1,2,4-Trichlorobenzene	<0.70	<0.70	<0.80	<0.40	<0.40	<0.30	<0.30	<0.30	<0.30								
1,2,4-Trimethylbenzene	**110**	**110**	**49**	**1**	**11**	**42**	**71**	**42**	**40**		<0.40	<0.60	<0.50	**2.8**	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane	<0.30	<0.30	<0.80	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50								
1,2-Dibromoethane	<0.50	<0.50	<0.26	<0.13	<0.13	<0.16	<0.16	<0.30	<0.30								
1,2-Dichlorobenzene	<0.50	<0.50	<0.80	<0.40	<0.40	<0.23	<0.23	<0.40	<0.40								
1,2-Dichloroethane	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene	**1.4**	**1.2**	**1.2**	<0.40	**2.7**	**1.7**	**2.3**	<0.30	<0.30								
trans-1,2-Dichloroethene	<0.40	<0.40	<1.0	<0.50	<0.50	<0.25	<0.25	<0.30	<0.30								
1,2-Dichloropropane	<0.50	<0.50	<0.42	<0.21	<0.21	<0.22	<0.22	<0.29	<0.29								
1,3,5-Trimethylbenzene	**28**	**31**	**8.8**	<0.19	**3**	**2.3**	**5.7**	**24**	**22**								
1,3-Dichlorobenzene	<0.40	<0.40	<0.80	<0.40	<0.40	<0.26	<0.26	<0.30	<0.30								
cis-1,3-Dichloropropene	<0.15	<0.15	<0.28	<0.14	<0.14	<0.19	<0.19	<0.28	<0.28								
1,3-Dichloropropane	<0.50	<0.50	<0.38	<0.19	<0.19	<0.23	<0.23	<0.30	<0.30								
trans-1,3-Dichloropropene	<0.14	<0.14	<0.28	<0.14	<0.14	<0.19	<0.19	<0.30	<0.30								
1,4-Dichlorobenzene	<0.60	<0.60	<1.0	<0.50	<0.50	<0.23	<0.23	<0.30	<0.30								
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.30	<0.30	<0.25	<0.25	<0.28	<0.28								
2-Butanone (MEK)	<5.0	<5.0	<8.0	<4.0	<4.0	<2.4	<2.4	<3.0	<3.0								
2-Chloroethyl vinyl ether																	
2-Chlorotoluene	<0.50	<0.50	<0.60	<0.30	<0.30	<0.22	<0.22	<0.30	<0.30								
2-Hexanone	<8.0	<8.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene	<0.60	<0.60	<0.60	<0.30	<0.30	<0.21	<0.21	<0.29	<0.29								
4-Methyl-2-Pentanone (MIBK)	<6.0	<6.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<10.0	<10.0	<14	<7.0	<7.0	<5.0	<5.0	<5.0	<5.0								
Benzene	<0.40	<0.40	<0.32	<0.16	<0.16	<0.19	<0.19	<0.30	<0.30								
Bromobenzene	<0.60	<0.60	<0.60	<0.30	<0.30	<0.20	<0.20	<0.30	<0.30								
Bromochloromethane	<0.70	<0.70	<0.42	<0.21	<0.21	<0.22	<0.22	<0.40	<0.40								
Bromodichloromethane	<0.15	<0.15	<0.38	<0.19	<0.19	<0.20	<0.20	<0.30	<0.30								
Bromoform	<0.21	<0.21	<1.0	<0.50	<0.50	<0.22	<0.22	<0.24	<0.24								
Bromomethane	<0.90	<0.90	<0.80	<0.40	<0.40	<0.50	<0.50	<0.30	<0.30								

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

Parameter	07/18/06	7/18/2006 duplicate	07/11/07	07/23/08	07/06/09	07/13/10	7/13/2010 Duplicate	07/19/11	7/19/2011 Duplicate	7/6/2012	7/5/2013	7/9/2014	7/8/2015	7/6/2016	7/11/2017	7/11/2018	7/8/2019
n-Butylbenzene	**1.2**	**1.2**	**1.2**	<0.24	**0.27**	<0.23	**0.57**	**2.7**	**2.5**								
sec-Butylbenzene	**4.8**	**4.8**	**2.5**	**0.89**	**2.9**	**4.3**	**5.5**	**3.2**	**3**								
tert-Butylbenzene	**2**	**2.1**	**0.81**	<0.23	**0.97**	**0.95**	**1.5**	**1.1**	**1**								
Carbon disulfide	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60								
Carbon tetrachloride	<0.50	<0.50	<0.80	<0.40	<0.40	<0.23	<0.23	<0.40	<0.40								
Chlorobenzene	<0.40	<0.40	<0.60	<0.30	<0.30	<0.24	<0.24	<0.30	<0.30								
Chlorodibromomethane	<0.60	<0.60	<0.46	<0.23	<0.23	<0.19	<0.19	<0.26	<0.26								
Chloroethane	<0.60	<0.60	<0.80	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30								
Chloroform	<0.50	<0.50	<0.44	<0.22	<0.22	<0.15	<0.15	<0.23	<0.23								
Chloromethane	<0.30	<0.30	<0.60	<0.30	**0.47B**	<0.40	<0.40	<0.40	<0.40								
Dibromomethane	<0.80	<0.80	<0.80	<0.40	<0.40	<0.24	<0.24	<0.30	<0.30								
Dichlorodifluoromethane	<0.29	<0.29	<0.80	<0.40	<0.40	<0.26	<0.26	<0.30	<0.30								
Diisopropyl Ether	<0.40	<0.40	<1.0	<0.50	<0.50	<0.20	<0.20	<0.30	<0.30								
Ethylbenzene	**3.2**	**2.7**	**0.92**	<0.28	**0.72**	**0.88**	**1.7**	**0.89**	**0.73**								
Hexachlorobutadiene	<0.90	<0.90	<1.2	<0.60	<0.60	<0.30	<0.30	<0.40	<0.40								
Isopropylbenzene	**14**	**14**	**3.4**	**0.84**	**2.1**	**1.8**	**4.7**	**4.6**	**4.2**								
p-Isopropyltoluene	**1.2**	**1.1**	**0.54**	<0.17	<0.17	<0.23	<0.23	**1.7**	**1.5**								
Methyl tert-butyl ether	<0.40	<0.40	<0.46	<0.23	<0.23	<0.29	<0.29	<0.30	<0.30								
Methylene chloride	<1.0	<1.0	**4**	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40								
Naphthalene	**5.2**	**4.6**	**3.7**	**1.1**	**1.1**	<0.40	**0.63**	**3.8**	**3.4**	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene	**12**	**11**	**4.7**	<0.20	**2**	**1.6**	**3.5**	**7.4**	**6.8**								
Styrene	<0.50	<0.50	<0.60	<0.30	<0.30	<0.20	<0.20	<0.30	<0.30								
Tetrachloroethene	**1.2**	**1.3**	<0.80	**0.78**	**1.2**	**1.5**	**1.6**	**0.67**	**0.69**								
Tetrahydrofuran	<7.0	<7.0	<8.0	<4.0	<4.0	<3.0	<3.0	<4.0	<4.0								
Toluene	<0.40	<0.40	<0.40	<0.20	<0.20	<0.22	<0.22	<0.30	<0.30								
Trichloroethene	**45**	**49**	**17**	**15**	**35**	**34**	**39**	**3.8**	**3.8**								
Trichlorofluoromethane	<0.70	<0.70	<0.80	<0.40	<0.40	<0.20	<0.20	<0.40	<0.40								
Vinyl acetate	<1.7	<1.7	<2.2	<1.1	<1.1	<3.0	<3.0	<4.0	<4.0								
Vinyl chloride	<0.15	<0.15	<0.30	<0.15	<0.15	<0.18	<0.18	<0.19	<0.19								
Xylene, m & p-	**19**	**20**	**1.1**	<0.50	**0.58**	**0.82**	**1.9**	**1.1**	**0.99**		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-	**44**	**47**	**5.3**	<0.50	**14**	**3.4**	**7.4**	**2**	**1.9**		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	**63**	**67**	**6.4**	<1	**14.58**	**4.22**	**9.3**	**3.1**	**2.89**		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

Parameter	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	01/31/01	07/11/01	08/06/02	07/24/03	07/13/04
1,1,1,2-Tetrachloroethane				<1		<5	<1		<1	<0.1	<0.3	<1.5	<20	<4.0	<10	<23	<1.8	<0.90
1,1,1-Trichloroethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<13	**5.5**	<0.50
1,1,2,2-Tetrachloroethane	<5	<50	<50	<1	<1	<5	<1	**1.25**	<1	<0.2	<0.2	<1	<20	<4.0	<10	<20	<1.6	<0.80
1,1,2-Trichloroethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<1	<0.2	<1	<10	<2.0	<5.0	<23	<1.8	<0.90
1,1-Dichloroethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1	<20	<2.0	<10	<13	<1.0	<0.50
1,1-Dichloroethene	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.4	<0.2	<1	<45	<4.0	<23	<10	<0.80	<0.40
1,1-Dichloropropene				<1		<5	<1		<1	<0.2	<0.3	<1.5	<20	<4.0	<10	<13	<1.0	<0.50
1,2,3-Trichlorobenzene				<1	<1	<5	<1		<1	<0.5	<0.4	<2	<25	<6.0	<13	<13	<1.0	<0.50
1,2,3-Trichloropropane				<1		<5	<1		<1	<0.3	<0.2	<1	<15	<2.0	<7.5	<20	<1.6	<0.80
1,2,4-Trichlorobenzene				<1	<1	<5	<1		<1	<0.5	<0.3	<1.5	<25	<6.0	<13	<13	<1.0	<0.50
1,2,4-Trimethylbenzene				**960**	**550**	**600**	**500**		**94.7**	**1300**	**900**	**230**	**570**	**570**	**500**	**440**	**46**	**15**
1,2-Dibromo-3-chloropropane				<3	<3	<15	<3		<3	<0.3	<0.3	<1.5	<15	<8.0	<7.5	<10	<0.80	<0.40
1,2-Dibromoethane				<2	<2	<10	<2		<2	<0.2	<0.4	<2	<15	<2.0	<7.5	<7.5	<0.60	<0.30
1,2-Dichlorobenzene				<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<18	<1.4	<0.70
1,2-Dichloroethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1	<20	<4.0	<10	<23	<1.8	<0.90
cis-1,2-Dichloroethene				<1	<1	<5	<1	2.3	<1	<0.2	<0.2	<1	<20	<4.0	<10	<13	<1.0	<0.50
trans-1,2-Dichloroethene	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.3	<1.5	<40	<2.0	<20	<10	<0.80	<0.40
1,2-Dichloropropane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.1	<0.2	<1	<15	<4.0	<7.5	<10	<0.80	<0.40
1,3,5-Trimethylbenzene				**340**	**160**	**80**	**88**		**16.0**	**380**	**300**	**70**	**210**	**120**	**140**	**99**	**1.2**	<0.50
1,3-Dichlorobenzene				<1	<1	<5	<1	<1	<1	<0.7	<0.4	<2	<20	<2.0	<10	<13	<1.0	<0.50
cis-1,3-Dichloropropene	<5	<50	<50	<1		<5	<1	<1	<1	<0.3	<0.3	<1.5	<10	<2.0	<5.0	<15	<1.2	<0.60
1,3-Dichloropropane				<1	<1	<5	<1		<1	<0.3	<0.6	<3	<20	<2.0	<10	<30	<2.4	<1.2
trans-1,3-Dichloropropene	<5	<50	<50	<1		<5	<1	<1	<1	<0.2	<0.2	<1	<25	<2.0	<13	<18	<1.4	<0.70
1,4-Dichlorobenzene				<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<20	<2.0	<10	<13	<1.0	<0.50
2,2-Dichloropropane				<1	<1	<5	<1		<1	<0.2	<0.5	<2.5	<10	<4.0	<5.0	<15	<1.2	<0.60
2-Butanone (MEK)	<10	<100	<100															
2-Chloroethyl vinyl ether								<10										
2-Chlorotoluene				<1	<1	<5	<1		<1	<0.4	<0.3	<1.5	<20	<2.0	<10	<15	<1.2	<0.60
2-Hexanone	<10	<100	<100															
4-Chlorotoluene				<1	<1	<5	<1		<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<15	<1.2	<0.60
4-Methyl-2-Pentanone (MIBK)	<10	<100	<100															
Acetone	**10.5**	<100	<100															
Benzene	**27.5**	<50	<50	**24**	**18**	**25**	**13**	**37**	**3.8**	<0.2	**55**	**4**	**11**	**15**	**4.2 J**	**20**	**0.87**	**0.40 J**
Bromobenzene				<1	<1	<5	<1	0	<1	<0.3	<0.2	<1	<25	<2.0	<13	<13	<1.0	<0.50
Bromochloromethane				<1		<5	<1	0	<1	<0.4	<0.2	<1	<20	<2.0	<10	<13	<1.0	<0.50
Bromodichloromethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1	<10	<2.0	<5.0	<10	<0.80	<0.40
Bromoform	<5	<50	<50	<1		<5	<1	<1	<1	<0.3	<0.2	<1	<5	<4.0	<2.5	<15	<1.2	<0.60
Bromomethane	<10	<100	<100	<2		<10	<2	<2	<2	<0.3	<0.9	<4.5	<20	<8.0	<10	<20	<1.6	<0.80

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

Parameter	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	01/31/01	07/11/01	08/06/02	07/24/03	07/13/04
n-Butylbenzene				**190**	**65**	**21**	**26**		**11.1**	**100**	**120**	**29**	**76**	**11**	**39**	**56**	**5.3**	**14**
sec-Butylbenzene				**27**	**12**	**15**	**13**		**4.5**	**30**	**60**	**10**	<15	**12**	**10 J**	**25**	**2.1**	**8**
tert-Butylbenzene				<1	<1	<5	<25		<1	<0.3	<0.3	<1.5	<5	**4.6**	<2.5	<13	<1.0	5.6
Carbon disulfide	<5	<50	<50															
Carbon tetrachloride	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.4	<2	<15	<2.0	<7.5	<15	<1.2	<0.60
Chlorobenzene	<5	<50	<50	<1	<1	<5	<1	1.3	<1	<0.3	<0.3	<1.5	<15	<2.0	<7.5	<20	<1.6	<0.80
Chlorodibromomethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<20	<4.0	<10	<10	<0.80	<0.40
Chloroethane	<10	<100	<100	<2	<2	<10	<2	<2	<2	<0.4	<0.8	<4	<25	<8.0	<13	<13	<1.0	<0.50
Chloroform	**12.7**	<50	<50	**7.2**	**4.4**	<5	**2.6**	<1	<1	<0.2	<0.2	<1	<25	<2.0	<13	<15	<1.2	<0.60
Chloromethane	<10	<100	<100	<2	<2	<10	<2	**3.95**	<2	<0.7	<0.9	<4.5	<15	<4.0	<7.5	<10	<0.80	<0.40
Dibromomethane				<1		<5	<1		<1	<0.1	<0.2	<1	<20	<4.0	<10	<13	<1.0	<0.50
Dichlorodifluoromethane				<2	<2	<10	<2		<2	<0.3	<1.2	<6	<25	<2.0	<13	<13	<1.0	<0.50
Diisopropyl Ether				0	<1							<1.5	<5	<2.0	<2.5	<13	<1.0	<0.50
Ethylbenzene	**79.3**	**54.5**	<50	**49**	**31**	**42**	**27**	**67.5**	**8.5**	**35**	**60**	**7.5**	**26**	**24**	**15**	**28**	<1.0	<0.50
Hexachlorobutadiene				<1	<1	<5	<1		<1	<0.5	<0.6	<3	<30	<4.0	<15	<13	<1.0	<0.50
Isopropylbenzene				**58**	**26**	**32**	**22**		**7.3**	**40**	**60**	**16**	**34**	**19**	**19**	**33**	**1.5**	**0.52 J**
p-Isopropyltoluene				<1	**21**	**12**	<1		**3.8**	<0.4	**55**	**3.5**	<10	**6.1**	<5.0	**20**	<1.0	<0.50
Methyl tert-butyl ether					<1							<1	<55	<6.0	<28	<13	<1.0	<0.50
Methylene chloride	<5	**82.7**	**103**	<3	<3	<15	<3	<3	<3	<0.3	<0.5	<2.5	<95	<8.0	<48	<25	<2.0	**3.1 J,A,B,Q**
Naphthalene	**38.5**	**84.9**	<100	**150**	**70**	**75**	**80**	**114.5**	**19.5**	**120**	**140**	**46**	**80**	**90**	**110**	**87**	**10**	**2.1**
n-Propylbenzene				**58**	**46**	**55**	**39**		**12.5**	**90**	**95**	**18**	**63**	**36**	**33**	**47**	**1.5**	<0.50
Styrene	<5	<50	<50	<1		<5	<25		<1	<0.2	<0.2	<1	<10	<2.0	<5.0	<13	<1.0	<0.50
Tetrachloroethene	<5	<50	<50	<1	<1	<5	**1.5**	**1.45**	<1	<0.3	<0.6	<3	<20	<2.0	<10	<13	<1.0	**0.77 J**
Tetrahydrofuran																		**0.60**
Toluene	**102**	**107**	**77.5**	**85**	**45**	**65**	**42**	**98.5**	**7.8**	**45**	**60**	**3.5**	**42**	**36**	**7.8 J**	**23**	<1.0	<0.50
Trichloroethene	**72.7**	**56.8**	**63.3**	**60**	**35**	**38**	**20**	**40**	**11.1**	**15**	<0.3	**9**	<15	**24**	<7.5	**23**	**1.3**	**<0.15**
Trichlorofluoromethane				<1	<1	<5	<1	<1	<1	<0.5	<0.6	<3	<20	<4.0	<10	<10	<0.80	<0.40
Vinyl acetate	<10	<100	<100															
Vinyl chloride	<10	<100	<100	<1	<1	<5	<1	<1	<1	<0.3	<0.5	<2.5	<20	<2.0	<10	<7.5	<0.60	<0.30
Xylene, m & p-				**280**	**190**	**220**	**170**	**284.5**	**34.2**	**200**	**150**	**13**	**110**	**86**	**26**	**57**	**1.8**	<0.60
Xylene, o-				**460**	**260**	**300**	**220**	**321.5**	**43.0**	**480**	**310**	**85**	**300**	**190**	**180**	**160**	**6.4**	**1.0 J**
Xylenes, Total	**569**	**993**	**523**															

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

Parameter	07/20/05	07/20/06	7/20/2006 Duplicate	07/10/07	7/10/2007 Duplicate	07/24/08	07/07/09	7/7/2009 Duplicate	07/15/10	07/20/11	7/20/2011 Duplicate	7/10/2012	7/2/2013	7/7/2014	7/9/2015	7/7/2016	7/17/2017	7/12/2018	7/15/2019
1,1,1,2-Tetrachloroethane	<0.50	<0.70	<0.70	<0.60	<0.60	<1.2	<0.60	<0.60	<0.24	<0.40	<0.40								
1,1,1-Trichloroethane	<0.60	<0.50	<0.50	<0.60	<0.60	<1.2	<0.60	<0.60	<0.21	<0.29	<0.29								
1,1,2,2-Tetrachloroethane	<0.15	<0.13	<0.13	<0.14	<0.14	<.28	<0.14	<0.14	<0.19	<0.30	<0.30								
1,1,2-Trichloroethane	<0.40	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.26	<0.30	<0.30								
1,1-Dichloroethane	<0.50	<0.40	<0.40	<0.40	<0.40	<.80	<0.40	<0.40	<0.20	<0.28	<0.28								
1,1-Dichloroethene	<0.50	<0.30	<0.30	<0.40	<0.40	<.80	<0.40	<0.40	<0.24	<0.29	<0.29								
1,1-Dichloropropene	<0.50	<0.60	<0.60	<0.50	<0.50	<1	<0.50	<0.50	<0.24	<0.40	<0.40								
1,2,3-Trichlorobenzene	<0.60	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.30	<0.40	<0.40								
1,2,3-Trichloropropane	<0.60	<0.70	<0.70	<0.30	<0.30	<0.60	<0.30	<0.30	<0.21	<0.40	<0.40								
1,2,4-Trichlorobenzene	<0.70	<0.70	<0.70	<0.40	<0.40	<0.80	<0.40	<0.40	<0.30	<0.30	<0.30								
1,2,4-Trimethylbenzene	**19**	**49**	**61**	**1**	**52**	**140**	<0.24	<0.24	**44**	**0.66**	**0.42**		<0.40	<0.60	**1.2**	**0.5**	<0.40	<0.40	**180**
1,2-Dibromo-3-chloropropane	<1.1	<0.30	<0.30	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.50	<0.50								
1,2-Dibromoethane	<0.60	<0.50	<0.50	<0.13	<0.13	<0.26	<0.13	<0.13	<0.16	<0.30	<0.30								
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.80	<0.40	<0.40	<0.23	<0.40	<0.40								
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene	<0.60	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	**0.25**	<0.30	<0.30								
trans-1,2-Dichloroethene	<0.60	<0.40	<0.40	<0.50	<0.50	<1	<0.50	<0.50	<0.25	<0.30	<0.30								
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.21	<0.21	<0.42	<0.21	<0.21	<0.22	<0.29	<0.29								
1,3,5-Trimethylbenzene	<0.50	<0.40	<0.19	**0.28**	<0.19	**20**	<0.19	<0.19	**0.4**	**0.55**	**0.47**								
1,3-Dichlorobenzene	<0.50	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.26	<0.30	<0.30								
cis-1,3-Dichloropropene	<0.12	<0.15	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.19	<0.28	<0.28								
1,3-Dichloropropane	<0.60	<0.50	<0.19	<0.19	<0.19	<0.38	<0.19	<0.19	<0.23	<0.30	<0.30								
trans-1,3-Dichloropropene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.19	<0.30	<0.30								
1,4-Dichlorobenzene	<0.50	<0.60	<0.60	<0.50	<0.50	<1	<0.50	<0.50	<0.23	<0.30	<0.30								
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.25	<0.28	<0.28								
2-Butanone (MEK)	<7.0	<5.0	<5.0	<4.0	<4.0	<8.0	<4.0	<4.0	<2.4	<3.0	<3.0								
2-Chloroethyl vinyl ether																			
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.22	<0.30	<0.30								
2-Hexanone	<7.0	<8.0	<8.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene	<0.40	<0.60	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.21	<0.29	<0.29								
4-Methyl-2-Pentanone (MIBK)	<7.0	<6.0	<6.0	<3.0	<3.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<9.0	<10.0	<10.0	<7.0	<7.0	<14.0	<7.0	<7.0	<5.0	<5.0	<5.0								
Benzene	**0.46**	**0.94**	**1.0**	**0.96**	**1**	**4**	<0.16	<0.16	**2.3**	**0.32**	**0.39**								
Bromobenzene	<0.50	<0.60	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.20Q	<0.30	<0.30								
Bromochloromethane	<0.50	<0.70	<0.70	<0.21	<0.21	<0.42	<0.21	<0.21	<0.22	<0.40	<0.40								
Bromodichloromethane	<0.13	<0.15	<0.15	<0.19	<0.19	<0.38	<0.19	**0.26**	<0.20	<0.30	<0.30								
Bromoform	<0.50	<0.21	<0.21	<0.50	<0.50	<1	<0.50	<0.50	<0.22	<0.24	<0.24								
Bromomethane	<0.80	<0.90	<0.90	<0.40	<0.40	<0.80	<0.40	<0.40	<0.50	<0.30	<0.30								

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W26-W26R

Parameter	07/20/05	07/20/06	7/20/2006 Duplicate	07/10/07	7/10/2007 Duplicate	07/24/08	07/07/09	7/7/2009 Duplicate	07/15/10	07/20/11	7/20/2011 Duplicate	7/10/2012	7/2/2013	7/7/2014	7/9/2015	7/7/2016	7/17/2017	7/12/2018	7/15/2019
n-Butylbenzene	**0.64**	**1.1**	**1.2**	**0.6**	**0.39**	**2.5**	<0.24	<0.24	**1.6**	**0.68**	**0.65**								
sec-Butylbenzene	**2.6**	**3.2**	**3.5**	**2.9**	**3.1**	**5.6**	<0.29	<0.29	**7.1**	**5.5**	**5.5**								
tert-Butylbenzene	**1.4**	**1.6**	**1.6**	**1.5**	**1.6**	**2.5**	<0.23	<0.23	**3.1**	**2.3**	**2.4**								
Carbon disulfide	<1.1	<1.0	<1.0	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<0.60	<0.60								
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.40	<0.40	<0.80	<0.40	<0.40	<0.23	<0.40	<0.40								
Chlorobenzene	<0.50	<0.40	<0.40	<0.30	<0.30	<0.60	<0.30	<0.30	<0.24	<0.30	<0.30								
Chlorodibromomethane	<0.60	<0.60	<0.60	<0.23	<0.23	<0.46	<0.23	<0.23	<0.19	<0.26	<0.26								
Chloroethane	<0.70	<0.60	<0.60	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.30	<0.30								
Chloroform	<0.50	<0.50	<0.50	<0.22	<0.22	**0.48**	**5.9**	**6.5**	**0.42**	**0.46**	**0.45**								
Chloromethane	<0.24	<0.30	<0.30	<0.30	<0.30	<0.60	**0.88AB**	**1.3AB**	<0.40	<0.40	<0.40								
Dibromomethane	<0.70	<0.80	<0.80	<0.40	<0.40	<0.80	<0.40	<0.40	<0.24	<0.30	<0.30								
Dichlorodifluoromethane	<0.60	<0.29	<0.29	<0.40	<0.40	<0.80	<0.40	<0.40	<0.26	<0.30	<0.30								
Diisopropyl Ether	<0.50	<0.40	<0.40	<0.50	<0.50	<1	<0.50	<0.50	<0.20	<0.30	<0.30								
Ethylbenzene	<0.50	0.67	0.76	<0.28	<0.28	**8.3**	<0.28	<0.28	**0.45**	**1.2**	**1.2**								
Hexachlorobutadiene	<0.60	<0.90	<0.90	<0.60	<0.60	<1.2	<0.60	<0.60	<0.30	<0.40	<0.40								
Isopropylbenzene	**1.7**	**2.8**	**3.2**	**1.3**	**1.4**	**11**	<0.20	<0.20	**3**	**5**	**5.1**								
p-Isopropyltoluene	<0.40	<0.40	<0.40	<0.17	<0.17	**0.94**	<0.17	<0.17	<0.23	<0.30	<0.30								
Methyl tert-butyl ether	<0.60	<0.40	<0.40	<0.23	<0.23	<0.46	<0.23	<0.23	<0.29	<0.30	<0.30								
Methylene chloride	<0.40	<1.0	<1.0	<0.50	<0.50	<1	<0.50	<0.50	<0.40	<0.40	<0.40								
Naphthalene	<0.60	**3.5**	**4.1**	<0.60	<0.60	**32**	<0.60	<0.60	**15**	**8**	**8.1**	<3.1 V	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	**4.9**
n-Propylbenzene	**0.95**	**2.1**	**2.3**	**0.21**	<.20	**13**	<0.20	<0.20	**2.5**	**3.9**	**4.1**								
Styrene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.20	<0.30	**0.55**								
Tetrachloroethene	**0.62**	**0.59**	**0.70**	**0.57**	**0.55**	**1.1**	<0.40	<0.40	**0.91**	**1.4**	**1.3**								
Tetrahydrofuran	<7.0	<7.0	<7.0	<4.0	<4.0	<8.0	<4.0	<4.0	<3.0	<4.0	<4.0								
Toluene	<0.40	<0.40	<0.40	<0.20	<0.20	**6.7**	<0.20	<0.20	<0.22	<0.30	<0.30								
Trichloroethene	**1.7**	**2.2**	**2.3**	**2.3**	**2.5**	**7**	**0.2**	<0.15	**3.6**	**2.7**	**2.8**								
Trichlorofluoromethane	<0.50	<0.70	<0.70	<0.40	<0.40	<0.80	<0.40	<0.40	<0.20	<0.40	<0.40								
Vinyl acetate	<8.0	<1.7	<1.7	<1.1	<1.1	<2.2	<1.1	<1.1	<3.0	<4.0	<4.0								
Vinyl chloride	<0.12	<0.15	<0.15	<0.15	<0.15	<0.30	<0.15	<0.15	<0.18	<0.19	<0.19								
Xylene, m & p-	<1.0	**1.5**	**1.8**	**1**	**1.1**	**21**	<0.50	<0.50	**2.6**	<0.60	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	**7.7**
Xylene, o-	**0.64**	**2.6**	**2.9**	**1.1**	**1.2**	**52**	<0.50	<0.50	**2.4**	**18**	**19**		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	**25**
Xylenes, Total	**0.64**	**4.1**	**4.7**	**2.1**	**2.3**	**73**	<1.0	<1.0	**5**	**18**	**19**		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	**32.7**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

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

Parameter	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	01/30/01	07/11/01	08/06/02	07/22/03	07/13/04	07/19/05	07/19/06	07/10/07	07/23/08	07/07/09	07/14/10	7/14/2010 Duplicate	07/25/11	07/10/12	07/05/13	07/09/14	07/09/15	07/11/16	07/18/17	7/18/2017 Duplicate	7/18/2018	7/18/2019	7/18/2019 Duplicate
1,1,1,2-Tetrachloroethane			<1	<1		<10	<0.1	<0.3	<1.5	<4	<2.0	<4.0	<4.5	<2.3	<18	<10.0	<3.5 *	<3.0	<12	<6	<2.4	<2.4	<4.0										
1,1,1-Trichloroethane	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3	<2.0	<3.0	<2.5	<1.3	<10	<12.0	<2.5 *	<3.0	<12	<6	<2.1	<2.1	<2.9										
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<2.0	<4.0	<4.0	<2.0	<16	<3.0	<0.65 *	<0.70	<2.8	<1.4	<1.9	<1.9	<3.0										
1,1,2-Trichloroethane	<5	<1	<1	<1	<10	<10	<1	<0.2	<1	<2	<1.0	<2.0	<4.5	<2.3	<18	<8.0	<2.5 *	<2.5	<10	<5	<2.6	<2.6	<3.0										
1,1-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<2.0 *	<2.0	<8	<4	<2.0	<2.0	<2.8										
1,1-Dichloroethene	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<1	<9	<2.0	<9.0	<2.0	<1.0	<8.0	<10.0	<1.5 *	<2.0	<8	<4	<2.4	<2.4	<2.9										
1,1-Dichloropropene			<1	<1		<10	<0.2	<0.3	<1.5	<4	<2.0	<4.0	<2.5	<1.3	<10	<10.0	<3.0 *	<2.5	<10	<5	<2.4	<2.4	<4.0										
1,2,3-Trichlorobenzene		<1	<1	<1		<10	<0.5	<0.4	<2	<5	<3.0	<5.0	<2.5	<1.3	<10	<12.0	<2.5 *	<2.5	<10	<5	<3.0	<3.0	<4.0										
1,2,3-Trichloropropane			<1	<1		<10	<0.3	<0.2	<1	<3	<1.0	<3.0	<4.0	<2.0	<16	<12.0	<3.5 *	<1.5	<6	<3	<2.1	<2.1	<4.0										
1,2,4-Trichlorobenzene		<1	<1	<1		<10	<0.5	<0.3	<1.5	<5	<3.0	<5.0	<2.5	<1.3	<10	<14.0	<3.5 *	<2.0	<8	<4	<3.0	<3.0	<3.0										
1,2,4-Trimethylbenzene		**190**	**1100**	**540**		**387.9**	**750**	**800**	**240**	**365**	**970**	**180**	**140**	**230**	**510**	**370**	**190 ***	**390**	**350**	**400**	**710**	**650**	**540**		**470**	**450**	**550**	**720**	**600**	**610**	**720**	**150**	**110**
1,2-Dibromo-3-chloropropane		<3	<3	<3		<30	<0.3	<0.3	<1.5	<3	<4.0	<3.0	<2.0	<1.0	<8.0	<22.	<1.5 *	<2.0	<8	<4	<4.0	<4.0	<5.0										
1,2-Dibromoethane		<2	<2	<2		<20	<0.2	<0.4	<2	<3	<1.0	<3.0	<1.5	<0.75	<6.0	<12.0	<2.5 *	<0.65	<2.6	<1.3	<1.6	<1.6	<3.0										
1,2-Dichlorobenzene		<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3	<2.0	<3.0	<3.5	<1.8	<14	<10.0	<2.5 *	<2.0	<8	<4	<2.3	<2.3	<4.0										
1,2-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<2.0	<4.0	<4.5	<2.3	<18	<10.0	<2.5 *	<1.5	<6	<3	<3.0	<3.0	<3.0										
cis-1,2-Dichloroethene		<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<2.0	<4.0	<2.5	<1.3	<10	<12.0	<2.0 *	<2.0	<8	<4	<2.5	<2.5	<3.0										
trans-1,2-Dichloroethene	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<1.5	<8	<1.0	<8.0	<2.0	<1.0	<8.0	<12.0	<2.0 *	<2.5	<10	<5	<2.5	<2.5	<3.0										
1,2-Dichloropropane	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<1	<3	<2.0	<3.0	<2.0	<1.0	<8.0	<10.0	<2.5 *	<1.1	<4.2	<2.1	<2.2	<2.2	<2.9										
1,3,5-Trimethylbenzene		**95**	**230**	**130**		**86.5**	**240**	**240**	**100**	**120**	**56**	**110**	**56**	**69**	**130**	**82**	**14 ***	**110**	**62**	**74**	**62**	**49**	**90**										
1,3-Dichlorobenzene		<1	<1	<1	<10	<10	<0.7	<0.4	<2	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<2.0 *	<2.0	<8	<4	<2.6	<2.6	<3.0										
cis-1,3-Dichloropropene	<5		<1	<1	<10	<10	<0.3	<0.3	<1.5	<2	<1.0	<2.0	<3.0	<1.5	<12	<2.4	<0.75*	<0.70	<2.8	<1.4	<1.9	<1.9	<2.8										
1,3-Dichloropropane		<1	<1	<1		<10	<0.3	<0.6	<3	<4	<1.0	<4.0	<6.0	<3.0	<24	<12.0	<2.5 *	<0.95	<3.8	<1.9	<2.3	<2.3	<3.0										
trans-1,3-Dichloropropene	<5	0	<1	<1	<10	<10	<0.2	<0.2	<1	<5	<1.0	<5.0	<3.5	<1.8	<14	<2.8	<0.70*	<0.70	<2.8	<1.4	<1.9	<1.9	<3.0										
1,4-Dichlorobenzene		<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<3.0 *	<2.5	<10	<5	<2.3	<2.3	<3.0										
2,2-Dichloropropane		<1	<1	<1		<10	<0.2	<0.5	<2.5	<2	<2.0	<2.0	<3.0	<1.5	<12	<12.0	<3.0 *	<1.5	<6	<3	<2.5	<2.5	<2.8										
2-Butanone (MEK)	<10															<140.	<25 *	**81**	<80	<40	**50**	**49**	<30										
2-Chloroethyl vinyl ether					<100																												
2-Chlorotoluene		<1	<1	<1		<10	<0.4	<0.3	<1.5	<4	<1.0	<4.0	<3.0	<1.5	<12	<10.0	<2.5 *	<1.5	<6	<3	<2.2	<2.2	<3.0										
2-Hexanone	<10															<140.	<40 *	<20	<80	<40	<40	<40	<40										
4-Chlorotoluene		<1	<1	<1		<10	<0.3	<0.3	<1.5	<3	<2.0	<3.0	<3.0	<1.5	<12	<8.0	<3.0 *	<1.5	<6	<3	<2.1	<2.1	<2.9										
4-Methyl-2-Pentanone (MIBK)	<10															<140.	<30 *	<15	<60	<30	<30	<30	<30										
Acetone	**20.1**															<180.	<50 *	<35	<140	<70	<50	<50	<50										
Benzene	**12.9**	**2.4**	**11**	**7.5**	**39**	<10	<0.2	**12**	<1.5	<1	<1.0	<1.0	<2.0	<1.0	<8.0	<8.0	<2.0 *	<0.80	<3.2	<1.6	<1.9	<1.9	<3.0										
Bromobenzene		<1	<1	<1		<10	<0.3	<0.2	<1	<5	<1.0	<5.0	<2.5	<1.3	<10	<10.0	<3.0 *	<1.5	<6	<3	<2.0	<2.0	<3.0										
Bromochloromethane			<1	<1		<10	<0.4	<0.2	<1	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<3.5 *	<1.1	<4.2	<2.1	<2.2	<2.2	<4.0										
Bromodichloromethane	<5	<1	<1	<1	**31**	<10	<0.2	<0.2	<1	<2	<1.0	<2.0	<2.0	<1.0	<8.0	<2.6	<0.75 *	<0.95	<3.8	<1.9	<2.0	<2.0	<3.0										
Bromoform	<5		<1	<1	<10	<10	<0.3	<0.2	<1	<1	<2.0	<1.0	<3.0	<1.5	<12	<10.0	<1.1 *	<2.5	<10	<5	<2.2	<2.2	<2.4										
Bromomethane	<10		<2	<2	<20	<20	<0.3	<0.9	<4.5	<4	<4.0	<4.0	<4.0	<2.0	<16	<16.0	<4.5 *	<2.0	<8	<4	<5.0	<5.0	<3.0										
n-Butylbenzene		**34**	**86**	**77**		**64.5**	**120**	**120**	**60**	**84.5**	**26**	**73**	**36**	**49**	**110**	**17**	**12 ***	**15**	**14**	**15**	**18**	**22**	**19**										
sec-Butylbenzene		**5.2**	**17**	**18**		**16.8**	**28**	**32**	**23**	**11.5**	**22**	**13**	**6.2**	**9.2**	**14 J**	**12**	**14 ***	**6.1**	**8**	**10**	**20**	**18**	**14**										
tert-Butylbenzene		<1	<1	<1		<10	<0.3	<0.3	<1.5	<1	**9.2**	<1.0	<2.5	<1.3	<10	<10	**7.7 ***	**6.8**	**5.6**	**7.9**	**4.7**	**4.7**	**6.6**										
Carbon disulfide	<5															<22.	<5.0 *	<2.5	<10	<5	<5.0	<5.0	<6.0										
Carbon tetrachloride	<5	<1	<1	<1	<10	<10	<0.2	<0.4	<2	<3	<1.0	<3.0	<3.0	<1.5	<12	<10.0	<2.5 *	<2.0	<8	<4	<2.3	<2.3	<4.0										
Chlorobenzene	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3	<1.0	<3.0	<4.0	<2.0	<16	<10.0	<2.0 *	<1.5	<6	<3	<2.4	<2.4	<3.0										
Chlorodibromomethane	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<4	<2.0	<4.0	<2.0	<1.0	<8.0	<12.0	<3.0 *	<1.2	<4.6	<2.3	<1.9	<1.9	<2.6										
Chloroethane	<10	<2	<2	<2	<20	<20	<0.4	<0.8	<4	<5	<4.0	<5.0	<2.5	<1.3	<10	<14.0	<3.0 *	<2.0	<8	<4	<4.0	<4.0	<3.0										
Chloroform	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<5	<1.0	<5.0	<3.0	<1.5	<12	<10.0	<2.5 *	<1.1	<4.4	<2.2	<1.5	<1.5	**4.6**										
Chloromethane	**35.1**	<10	<2	<2	**48**	<20	<0.7	<0.9	<4.5	<3	<2.0	<3.0	<2.0	<1.0	<8.0	<4.8	<1.5 *	<1.5	<6	<3	<4.0	<4.0	<4.0										
Dibromomethane			<1	<1		<10	<0.1	<0.2	<1	<4	<2.0	<4.0	<2.5	<1.3	<10	<14.0	<4.0 *	<2.0	<8	<4	<2.4	<2.4	<3.0										
Dichlorodifluoromethane		<25	<2	<2		<20	<0.3	<1.2	<6	<5	<1.0	<5.0	<2.5	<1.3	<10	<12.0	<1.5 *	<2.0	<8	<4	<2.6	<2.6	<3.0										
Diisopropyl Ether		<1							<1.5	<1	<1.0	<1.0	<2.5	<1.3	<10	<10.0	<2.0 *	<2.5	<10	<5	<2.0	<2.0	<3.0										
Ethylbenzene	**35.4**	**4.8**	**40**	**32**	**71**	<10	**18**	**28**	**1.5**	**4.1**	**19**	<1.0	<2.5	**2.5**	**12 J**	<10.0	**7.6 ***	**6.9**	**9.5**	**13**	**26**	**23**	**14**										
Hexachlorobutadiene		<1	<1	<1		<10	<0.5	<0.6	<3	<6	<2.0	<6.0	<2.5	<1.3	<10	<12.0	<4.5 *	<3.0	<12	<6	<3.0	<3.0	<4.0										
Isopropylbenzene		**6.4**	**36**	**31**		**15.7**	**23**	**34**	**14**	**10.25**	**26**	**6.4**	**4.8**	**7.2**	**16 J**	**12**	**19 ***	**7.9**	**14**	**18**	**22**	**18**	**24**										
p-Isopropyltoluene		<1	**17**	<1		**20.3**	**30**	**39**	**18**	**24**	**12**	**12**	**7.6**	**9.8**	**19 J**	**13**	**4.6 ***	**15**	**9.9**	**13**	**6.6**	**6.5**	**9**										
Methyl tert-butyl ether		<1							<1	<11	<3.0	<11	<2.5	<1.3	<10	<12.0	<2.0 *	<1.2	<4.6	<2.3	<2.9	<2.9	<3.0										
Methylene chloride	**11**	<3	<3	<3	<30	<30	<0.3	<0.5	<2.5	<19	<4.0	<19	<5.0	<2.5	**78 A,B,Q**	<8.0	**16 Q***	**15**	<10	<5	**8.8**	**9.3**	**7.7 B**										
Naphthalene	**89.8**	**42**	**120**	**10**	**150**	**51.0**	**95**	**90**	**36**	**55**	**130**	**47**	**23**	**43**	**73**	**50**	**52 ***	**55**	**51**	**44**	**99**	**83**	**88**	**63**	**73**	**87**	**69**	**91**	**81**	**84**	**94**	**28**	**26**
n-Propylbenzene		**8.8**	**63**	**46**		**23.7**	**36**	**46**	**7.5**	**14.5**	**43**	**3.0 J**	**3.3**	**12**	**18 J**	**15**	**15 ***	**8.7**	**17**	**25**	**57**	**46**	**32**										
Styrene	<5		<1	<1		<10	<0.2	<0.2	<1	<2	<1.0	<2.0	<2.5	**3**	<10	<10.0	<2.5 *	<1.5	<6	<3	<2.0	<2.0	<3.0										
Tetrachloroethene	<5	<1	**3.2**	**2.8**	<10	<10	<0.3	<0.6	<3	<4	**1.4**	<4.0	<2.5	**2.5**	<10	<8.0	<1.5 *	<2.0	<8	<4	<3.0	<3.0	<3.0										
Tetrahydrofuran																<140	<35 *	<20	<80	<40	<30	<30	<40										
Toluene	**63.9**	**8.9**	**71**	**36**	100	<10	**6**	**18**	**1**	**6.4**	**3.4**	<1.0	<2.5	<1.3	<10	<8.0	<2.0 *	<1.0	<4	<2	<2.2	**2.8**	<3.0										
Trichloroethene	**20.8**	**4.4**	**17**	**12**	**61**	<10	**4**	**15**	<1.5	<3	**5.8**	<3.0	<3.0	<1.5	<12	**3.6**	**3.4 ***	**3.3**	**5.4**	**4.1**	**6.8**	**6.4**	<4.0										
Trichlorofluoromethane		<1	<1	<1	<10	<10	<0.5	<0.6	<3	<4	<2.0	<4.0	<2.0	<1.0	<8.0	<10.0	<3.5 *	<2.0	<8	<4	<2.0	<2.0	<4.0										

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

Parameter	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	01/30/01	07/11/01	08/06/02	07/22/03	07/13/04	07/19/05	07/19/06	07/10/07	07/23/08	07/07/09	07/14/10	7/14/2010 Duplicate	07/25/11	07/10/12	07/05/13	07/09/14	07/09/15	07/11/16	07/18/17	7/18/2017 Duplicate	7/18/2018	7/18/2019	7/18/2019 Duplicate
Vinyl acetate	<10															<160.	<8.5 *	<5.5	<22	<11	<30	<30	<40										
Vinyl chloride	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<2.5	<4	<1.0	<4.0	<1.5	<0.75	<6.0	<2.4	<0.75 *	<0.75	<3	<1.5	<1.8	<1.8	<1.9										
Xylene, m & p-		**36**	**300**	**240**	**480**	**42.6**	**46**	**70**	**22**	**19.5**	**33**	**2.7 J**	**6.9**	**9.3**	**21 J**	<20	**5.7** *	**15**	**17**	**20**	**37**	**33**	**33**		**18**	<20	<22	**45**	**33**	**33**	**39**	**6.3**	<4
Xylene, o-		**200**	**380**	**300**	**510**	**93.5**	**260**	**300**	**90**	**125**	**240**	**28**	**42**	**59**	**150**	**87**	**110** *	**100**	**120**	**170**	**260**	**240**	**180**		**130**	**150**	**130**	**130**	**79**	**80**	**92**	**20**	**13**
Xylenes, Total	**620**															**87**	**115.7** *	**115**	**137**	**190**	**297**	**273**	**213**		**148**	**150**	**130**	**175**	**112**	**113**	**131**	**26.3**	**13**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limit
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	07/08/92	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	01/30/01	07/10/01	08/06/02	07/23/03	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/18/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	07/11/18	07/08/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	**7**	**15**		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	**0.35**	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<50	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<100															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<100															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<100															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<100															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								
Bromoform	<50		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<100		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		<1	<1	1.6		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	**0.21**	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<50															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<50	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<100	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<50	**1.4**	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	**0.36**	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<100	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**1.4MB**	**0.41B**	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	**786**	<3	<3	<3	<3	<3	**0.4**	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3.1 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	<10	<1	**2.5**	**4.2**	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<50		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<50	<1	<1	<1	**1.3**	<1	**0.3**	**1.2**	**0.6**	<0.4	**0.40**	<0.4	<0.50	<0.50	**0.94 J**	**0.65**	**0.41**	<0.40	<0.40	**0.62**	**0.49**	**0.66**								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<50	**7**	**5.5**	**4.5**	**6.5**	**4.9**	**4.2**	**3.9**	**3**	**1.9**	**2.4**	**0.37 J**	**0.75**	**1.0**	**1.8 J**	**1.3**	**0.91**	**0.89**	**0.38**	**0.92**	**0.59**	**0.56**								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								

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

Parameter	07/08/92	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	01/30/01	07/10/01	08/06/02	07/23/03	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/18/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	07/11/18	07/08/19
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<100	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W29-W29R

Parameter	06/25/92	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	01/30/01	07/11/01	08/07/02	07/24/03	07/13/04	07/20/05	07/19/06	07/10/07	07/24/08	7/24/2008 Duplicate	07/07/09	07/14/10	07/19/11	07/09/12	07/02/13	07/07/14	07/07/15	07/11/16	7/11/2016 Duplicate	7/17/2017	7/19/2018	7/19/2018 Duplicate	7/16/2019
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40										
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29										
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30										
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30										
1,1-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28										
1,1-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29										
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.24	<0.40										
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40										
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.30	<0.30	<0.21	<0.40										
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30										
1,2,4-Trimethylbenzene		<1	**10**	**4.8**		**126.8**	**29**	**140**	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.24	<0.20	**1.4**		<0.40	<0.60	<0.50	**8.2**	**7.5**	**3.8**	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50										
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.13	<0.13	<0.16	<0.30										
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	**3.8**	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40										
1,2-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30										
cis-1,2-Dichloroethene		<1	<1	<1	<1	**1.4**	**0.7**	**1.3**	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	**0.44**										
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.30										
1,2-Dichloropropane	<50	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.29										
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	**6.2**	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30										
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30										
cis-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28										
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30										
trans-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30										
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30										
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.30	<0.25	<0.28										
2-Butanone (MEK)	<100															<7.0	<5.0	<4.0	<4.0	<4.0	<4.0	<2.4	<3.0										
2-Chloroethyl vinyl ether					<10																												
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30										
2-Hexanone	<100															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0										
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29										
4-Methyl-2-Pentanone (MIBK)	<100															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0										
Acetone	<100															<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0										
Benzene	<50	<1	**1.5**	<1	**2.3**	**2.9**	**1.3**	**3**	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.16	<0.19	**2.7**										
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.20Q	<0.30										
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40										
Bromodichloromethane	<50	<1	<1	<1	<1	<1	<0.2	**1.5**	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.20	<0.30										
Bromoform	<50		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.50	<0.22	<0.24										
Bromomethane	<100		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30										
n-Butylbenzene		<1	1.4	<1		**8.4**	<0.6	**12**	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.24	<0.23	<0.29										
sec-Butylbenzene		<1	<1	<1		**5.9**	**2.7**	**7.4**	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.29	<0.21	**3.1**										
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.23	<0.20	**1.8**										
Carbon disulfide	<50															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60										
Carbon tetrachloride	<50	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40										
Chlorobenzene	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.30	<0.24	<0.30										
Chlorodibromomethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.23	<0.19	<0.26										
Chloroethane	<100	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30										
Chloroform	<50	<1	<1	<1	<1	<1	<0.2	**31**	**22**	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	**3.3**	**0.26**	**0.29**	<0.22	<0.15	**1.6**										
Chloromethane	<100	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	<0.30	**0.47AB**	<0.40	<0.40										
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.40	<0.24	<0.30										
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30										
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.50	<0.20	<0.30										
Ethylbenzene	<50	<1	<1	<1	**1.2**	**3.9**	**0.3**	**6.3**	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.28	<0.22	<0.29										
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.60	<0.30	<0.40										
Isopropylbenzene		<1	**1.7**	<1		**8.7**	**3.9**	**8.9**	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.20	<0.18	**2**										
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.17	<0.23	<0.30										
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.23	<0.29	<0.30										
Methylene chloride	<50	<3	<3	<3	<3	<3	<0.3	**5**	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3.0 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40										
Naphthalene	<10	<1	1.6	<1	**2.3**	**16.2**	**2.6**	**24**	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.60	<0.40	<0.40	<3.2 V	<0.50	<1.2	<0.50	**2.5**	**2.8**	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	1.7	<1		**11.2**	**3.6**	**14**	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.30										
Styrene	<50		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30										
Tetrachloroethene	<50	<1	<1	<1	<1	<1	<0.3	**1.8**	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.40	<0.30	**0.51**										
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<4.0	<3.0	<4.0										
Toluene	<50	<1	<1	<1	<1	<1	<0.2	**1.8**	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.22	<0.30										
Trichloroethene	<50	**3.4**	**10**	**3.1**	**20**	**34.4**	**16**	**17**	<0.3	<0.3	<0.20	<0.3	<0.60	**0.79**	**0.65 J**	<0.15	<0.15	**0.61**	<0.15	<0.15	**0.28**	**1.3**	**9.2**										
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.40	<0.20	<0.40										

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W29-W29R

Parameter	06/25/92	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	01/30/01	07/11/01	08/07/02	07/24/03	07/13/04	07/20/05	07/19/06	07/10/07	07/24/08	7/24/2008 Duplicate	07/07/09	07/14/10	07/19/11	07/09/12	07/02/13	07/07/14	07/07/15	07/11/16	7/11/2016 Duplicate	7/17/2017	7/19/2018	7/19/2018 Duplicate	7/16/2019
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0										
Vinyl chloride	<100	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19										
Xylene, m & p-		<2	<2	<2	<2	**6.5**	**1.1**	**10**	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	**5.7**	**5.3**	**3.6**	<0.80	<0.80	<0.80
Xylene, o-		<1	**3.7**	<1	**6.5**	**40.2**	**8.8**	**60**	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	**2.4**	**2.2**	**1.4**	<0.40	<0.40	<0.40
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	**8.1**	**7.5**	**5**	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	06/24/92	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	01/30/01	07/10/01	08/06/02	07/24/03	07/13/04	07/20/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17	07/10/18	07/08/19
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<50	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<100															<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																									
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<100															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<100															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<100															<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30								
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30								

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

Parameter	06/24/92	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	01/30/01	07/10/01	08/06/02	07/24/03	07/13/04	07/20/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17	07/10/18	07/08/19
Bromoform	<50		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<100		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<50															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<50	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<100	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<100	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	**0.40AB**	<0.40	<0.40								
Dibromomethane			<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<50	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**3.0 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene		<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<50		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<50	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<100	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W33

Parameter	06/25/92	06/30/93	12/28/93	06/22/94	07/05/95	08/07/02	07/24/03	07/14/04	07/21/05	07/11/07	07/24/08	07/07/09	07/15/10	07/25/11	07/19/12	07/08/13	07/07/14	07/09/15	07/12/16	07/18/17	07/19/18	07/15/19
1,1,1,2-Tetrachloroethane			<1	<1		<90	<45	<45	<25	<30	<30	<30	<6.0	<0.80								
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<50	**110**	<25	<30	<30	<30	<30	<5.3	<0.58								
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<80	<40	<40	<7.5	<7.0	<7.0	<7.0	<4.8	<0.60								
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<90	<45	<45	<20	<25	<25	<25	<6.5	<0.60								
1,1-Dichloroethane	<50	<1	<1	<1	<1	<50	<25	<25	<25	<20	<20	<20	<5.0	<0.56								
1,1-Dichloroethene	<50	<1	<1	<1	<1	<40	<20	<20	<25	<20	<20	<20	<6.0	<0.58								
1,1-Dichloropropene			<1	<1		<50	<25	<25	<25	<25	<25	<25	<6.0	<0.80								
1,2,3-Trichlorobenzene		<1	<1	<1		<50	<25	<25	<30	<25	<25	<25	<7.5	<0.80								
1,2,3-Trichloropropane			<1	<1		<80	<40	<40	<30	<15	<15	<15	<5.3	<0.80								
1,2,4-Trichlorobenzene		<1	<1	<1		<50	<25	<25	<35	<20	<20	<20	<7.5	<0.60								
1,2,4-Trimethylbenzene		<1	**10**	**4.8**		**1700**	**1400**	**1200**	**1400**	**1600**	**2800**	**1300**	**1200**	**100**		**210**	**230**	**120**	**170**	**270**	**170**	**8.5**
1,2-Dibromo-3-chloropropane		<3	<3	<3		<40	<20	<20	<55	<20	<20	<20	<10	<1.0								
1,2-Dibromoethane		<2	<2	<2		<30	<15	<15	<30	<6.5	<6.5	<6.5	<4.0	<0.60								
1,2-Dichlorobenzene		<1	<1	<1	<1	<70	<35	<35	<25	<20	<20	<20	<5.8	<0.80								
1,2-Dichloroethane	<50	<1	<1	<1	<1	<90	<45	<45	<25	<15	<15	<15	<7.5	<0.60								
cis-1,2-Dichloroethene		<1	<1	<1	<1	<50	<25	<25	<30	<20	<20	<20	<6.3	<0.60								
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<40	<20	<20	<30	<25	<25	<25	<6.3	<0.60								
1,2-Dichloropropane	<50	<1	<1	<1	<1	<40	<20	<20	<25	<11	<11	<11	<5.5	<0.58								
1,3,5-Trimethylbenzene		<1	<1	<1		**2900**	**1500**	**820**	**730**	**1100**	**1000**	**770**	**650**	**65**								
1,3-Dichlorobenzene		<1	<1	<1	<1	<50	<25	<25	<25	<20	<20	<20	<6.5	<0.60								
cis-1,3-Dichloropropene	<50		<1	<1	<1	<60	<30	<30	<6	<7.0	<7.0	<7.0	<4.8	<0.56								
1,3-Dichloropropane		<1	<1	<1		<120	<60	<35	<30	<9.5	<9.5	<9.5	<5.8	<0.60								
trans-1,3-Dichloropropene	<50		<1	<1	<1	<70	<35	<60	<7	<7.0	<7.0	<7.0	<4.8	<0.60								
1,4-Dichlorobenzene		<1	<1	<1	<1	<50	<25	<25	<25	<25	<25	<25	<5.8	<0.60								
2,2-Dichloropropane		<1	<1	<1		<60	<30	<30	<30	<15	<15	<15	<6.3	<0.56								
2-Butanone (MEK)	<100								<350	<200	<200	<200	<60	<6.0								
2-Chloroethyl vinyl ether					<10																	
2-Chlorotoluene		<1	<1	<1		<60	<30	<30	<25	<15	<15	<15	<5.5	<0.60								
2-Hexanone	<100								<350	<200	<200	<200	<100	<8.0								
4-Chlorotoluene		<1	<1	<1		<60	<30	<30	<20	<15	<15	<15	<5.3	<0.58								
4-Methyl-2-Pentanone (MIBK)	<100								<350	<150	<150	<150	<75	<6.0								
Acetone	<100								<450	<350	<350	<350	<130	<10								
Benzene	<50	<1	**1.5**	<1	**2.3**	**82**	<20	<20	<20	<8.0	<8.0	<8.0	<4.8	<0.60								
Bromobenzene		<1	<1	<1		<50	<25	<25	<25	<15	<15	<15	<5.0Q	<0.60								
Bromochloromethane			<1	<1		<50	<25	<25	<25	<11	<11	<11	<5.5	<0.80								
Bromodichloromethane	<50	<1	<1	<1	<1	<40	<20	<20	<6.5	<9.5	<9.5	<9.5	<5.0	<0.60								
Bromoform	<50		<1	<1	<1	<60	<30	<30	<25	<25	<25	<25	<5.5	<0.48								
Bromomethane	<100		<2	<2	<2	<80	<40	<40	<40	<20	<20	<20	<13	<0.60								
n-Butylbenzene		<1	1.4	<1		**1800**	**1100**	**380**	**140**	**150**	**110**	**62**	**45**	**11**								
sec-Butylbenzene		<1	<1	<1		**520**	**220**	**89**	**50**	**120**	**90**	**49**	**50**	**7.1**								
tert-Butylbenzene		<1	<1	<1		<50	<25	<25	<25	**29**	**26**	**14**	**7.7**	**3.2**								
Carbon disulfide	<50								<55	<25	<25	<25	<13	<1.2								
Carbon tetrachloride	<50	<1	<1	<1	<1	<60	<30	<30	<25	<20	<20	<20	<5.8	<0.80								
Chlorobenzene	<50	<1	<1	<1	<1	<80	<40	<40	<25	<15	<15	<15	<6.0	<0.60								
Chlorodibromomethane	<50	<1	<1	<1	<1	<40	<20	<20	<30	<12	<12	<12	<4.8	<0.52								
Chloroethane	<100	<2	<2	<2	<2	<50	<25	<25	<35	<20	<20	<20	<10	<0.60								
Chloroform	<50	<1	<1	<1	<1	<60	<30	<30	<25	<11	<11	<11	<3.8	**12**								
Chloromethane	<100	<2	<2	<2	<2	<40	<20	<20	<12	<15	<15	<15	<10	<0.80								
Dibromomethane			<1	<1		<50	<25	<25	<35	<20	<20	<20	<6.0	<0.60								
Dichlorodifluoromethane		<2	<2	<2		<50	<25	<25	<30	<20	<20	<20	<6.5	<0.60								
Diisopropyl Ether		<1				<50	<25	<25	<25	<25	<25	<25	<5.0	<0.60								
Ethylbenzene	<50	<1	<1	<1	**1.2**	**110**	<25	<25	<25	**19**	**20**	**15**	**19**	<0.58								
Hexachlorobutadiene		<1	<1	<1		<50	<25	<25	<30	<30	<30	<30	<7.5	<0.80								
Isopropylbenzene		<1	**1.7**	<1		**400**	**110**	**70 J**	**38**	**58**	**67**	**37**	**17**	**2.7**								
p-Isopropyltoluene		<1	<1	<1		**550**	**270**	**110**	**77**	**160**	**130**	**75**	**48**	**11**								
Methyl tert-butyl ether		<1				<50	<25	<25	<30	<12	<12	<12	<7.3	<0.60								
Methylene chloride	<50	<3	<3	<3	<3	<100	<50	**230 A,B,Q**	**35**	<25	<25	<25	**33**	**1.8 B**								
Naphthalene	<10	<1	1.6	<1	**2.3**	<50	**190**	**120**	**110 A**	**160**	**140**	**120**	**140**	**7.2**	**5.6**	**19**	**19**	**9.4**	**9.7**	**15**	**8.3**	**1.6**
n-Propylbenzene		<1	1.7	<1		**490**	**210**	**80**	**58**	**97**	**100**	**61**	**97**	**4.4**								
Styrene	<50		<1	<1		<50	**430**	<25	<25	<15	<15	<15	<5.0	<0.60								
Tetrachloroethene	<50	<1	<1	<1	<1	**160**	<25	<25	<20	<20	<20	<20	**7.7**	<0.60								
Tetrahydrofuran									<350	<200	<200	<200	<75	<8.0								
Toluene	<50	<1	<1	<1	<1	**100**	<25	<25	<20	<10	**11**	<10	<5.5	<0.60								
Trichloroethene	<50	**3.4**	**10**	**3.1**	**20**	<60	<30	<30	<7.5	<7.5	<7.5	<7.5	<5.3	<0.80								
Trichlorofluoromethane		<1	<1	<1	<1	<40	<20	<20	<25	<20	<20	<20	<5.0	<0.80								

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W33

Parameter	06/25/92	06/30/93	12/28/93	06/22/94	07/05/95	08/07/02	07/24/03	07/14/04	07/21/05	07/11/07	07/24/08	07/07/09	07/15/10	07/25/11	07/19/12	07/08/13	07/07/14	07/09/15	07/12/16	07/18/17	07/19/18	07/15/19
Vinyl acetate	<100								<400	<55	<55	<55	<75	<8.0								
Vinyl chloride	<100	<1	<1	<1	<1	<30	<15	<15	<6.0	<7.5	<7.5	<7.5	<4.5	<0.38								
Xylene, m & p-		<2	<2	<2	<2	**590**	**260**	**110**	**110**	**170**	**230**	**160**	**130**	**1.9**		<9.0	<5.0	<5.5	**12**	<8.0	**4.1**	<0.8
Xylene, o-		<1	**3.7**	<1	**6.5**	**2200**	**740**	**570**	**360**	**430**	**490**	**370**	**310**	**9.3**		**42**	**52**	**43**	**54**	**25**	**38**	**5.1**
Xylenes, Total	<50								**470**	**600**	**720**	**530**	**440**	**11.2**		**42**	**52**	**43**	**66**	**25**	**42.1**	**5.1**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19
NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	08/03/92	09/17/92	07/10/96	07/11/97	06/25/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02	07/22/03	07/14/04	07/21/05	07/18/06	07/10/07	7/10/2007 Duplicate	07/23/08	07/06/09	07/14/10	07/19/11	07/09/12	07/02/13	07/09/14	07/07/15	07/06/16	07/11/17	07/12/18	07/09/19
1,1,1,2-Tetrachloroethane			<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<50	<50	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<50	<50	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<50	<50	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29								
1,1-Dichloropropene			<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene			<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene			<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.40	<0.3	<0.30								
1,2,4-Trimethylbenzene			**637.5**	**130**	**180**	**7.45**	**15**	**0.50**	**0.84**	**3.3**	<0.50	**7.4**	<0.40	<0.50	<0.24	<0.24	<0.24	<0.24	**1.2**	<0.30		<0.40	<0.60	<0.50	**0.58**	**0.5**	<0.40	<0.40
1,2-Dibromo-3-chloropropane			<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50								
1,2-Dibromoethane			<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene			<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene			<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<50	<50	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<50	<50	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene			**122.2**	**44**	**77**	**3.9**	**6.15**	**0.20**	**1.3**	**1.4**	<0.50	**4.0**	<0.50	<0.19	<0.19	<0.19	<0.19	<0.19	**0.35**	<0.30								
1,3-Dichlorobenzene			<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<50	<50	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane			<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<50	<50	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene			<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane			<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<100	<100											<7.0	<5.0	<4.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether																												
2-Chlorotoluene			<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<100	<100											<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0								
4-Chlorotoluene			<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<100	<100											<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0								
Acetone	<100	<100											<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<50	<50	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.16	<0.19	<0.30								
Bromobenzene			<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.20Q	<0.30								
Bromochloromethane			<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.2	**0.33**	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.20	<0.30								

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

Parameter	08/03/92	09/17/92	07/10/96	07/11/97	06/25/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02	07/22/03	07/14/04	07/21/05	07/18/06	07/10/07	7/10/2007 Duplicate	07/23/08	07/06/09	07/14/10	07/19/11	07/09/12	07/02/13	07/09/14	07/07/15	07/06/16	07/11/17	07/12/18	07/09/19
Bromoform	<50	<50	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<100	<100	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30								
n-Butylbenzene			**137.3**	**12**	**56**	**4.7**	**7.1**	<0.10	<0.4	**2.2**	**1.4**	**6.5**	<0.60	<0.40	<0.24	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene			**22.7**	**7**	**25**	**2.25**	**3.3**	**0.48**	<0.3	**0.64**	<0.50	**1.7**	<0.50	<0.50	<0.29	<0.29	<0.29	<0.29	**0.53**	<0.30								
tert-Butylbenzene			<1	<0.3	<0.3	**2.75**	**0.85**	**0.10**	<0.1	<0.50	<0.50	**1.4 J**	<0.50	<0.50	<0.23	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<50	<50											<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<50	<50	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<50	<50	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.30	<0.24	<0.30								
Chlorodibromomethane	<50	<50	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.23	<0.19	<0.26								
Chloroethane	<100	<100	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30								
Chloroform	<50	<50	**12.5**	**24**	**14**	**7.7**	**4.75**	**5.7**	**4.1**	**4.5**	**2.1**	**1.8 J**	**1.6**	**1.3**	**1.7**	**1.6**	**1.3**	**0.63**	**0.55**	**0.65**								
Chloromethane	<100	<100	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	<0.30	**0.70B**	<0.40	<0.40								
Dibromomethane			<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.40	<0.24	<0.30								
Dichlorodifluoromethane			<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
Diisopropyl Ether						<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.50	<0.20	<0.30								
Ethylbenzene	<50	<50	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.28	<0.22	<0.29								
Hexachlorobutadiene			<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.60	<0.30	<0.40								
Isopropylbenzene			**36.0**	**6.5**	**23**	**3.4**	**1.55**	**0.25**	<0.1	<0.50	<0.50	**1.6**	<0.40	<0.60	<0.20	<0.20	<0.20	<0.20	<0.18	<0.30								
p-Isopropyltoluene			**22.0**	<0.4	**25**	**1.3**	**2.7**	**0.28**	<0.2	**0.59**	<0.50	**1.8**	<0.40	<0.40	<0.17	<0.17	<0.17	<0.17	<0.23	<0.30								
Methyl tert-butyl ether						<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.23	<0.29	<0.30								
Methylene chloride	<50	**113**	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	**2.9 J,A,B,Q**	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene	**71.8**	<10	**122.4**	**7**	**14**	**1.75**	**1.75**	**0.89**	<0.7	**0.64**	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene			**123.1**	**12**	**25**	**2.8**	**3.3**	**0.48**	<0.3	**0.7**	<0.50	**2.3**	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.30								
Styrene	<50	<50	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	**0.61**	**1.3**	**4.8**	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<50	<50	<1	<0.3	<0.6	<0.6	<0.4	**0.12**	<0.4	<0.50	<0.50	**1.4 J**	<0.40	<0.29	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30								
Tetrahydrofuran													<7.0	<7.0	<4.0	<4.0	<4.0	<4.0	<3.0	<4.0								
Toluene	<50	<50	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<50	<50	**4.4**	**6**	<0.3	**4.4**	**3.75**	**3.0**	**1.6**	**1.5**	**1.2**	**0.9 J**	**1.2**	**0.81**	**0.94**	**0.73**	**0.7**	**1.4**	**1.5**	**0.94**								
Trichlorofluoromethane			<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.40	<0.20	<0.40								
Vinyl acetate	<100	<100											<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<100	<100	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-			<200	**4.5**	<0.3	**0.6**	**0.59**	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, o-			**201.6**	**32**	<0.5	<0.5	**1.55**	<0.10	**0.28**	**0.84**	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	**0.60**	<0.40	<0.40	<0.40
Xylenes, Total	**297**	**447**												<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	**0.60**	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

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

Parameter	06/17/92	06/21/94	07/09/96	07/11/97	06/24/98	06/09/99	07/19/00	07/11/01	08/06/02	07/22/03	07/14/04	07/20/05	07/19/06	7/19/2006 Duplicate	07/11/07	07/24/08	07/07/09	07/14/10	07/25/11	07/10/12	07/08/13	07/08/14	07/09/15	07/07/16	07/17/17	07/12/18
1,1,1,2-Tetrachloroethane		<1	<100	<0.1	<0.3	<3	<20	<20	<18	<9.0	<0.90	<0.50	<0.70	<0.70	<3.0	<6	<3.0	<2.4	<4.0							
1,1,1-Trichloroethane	<50	<1	<100	<0.3	<0.3	<3	<15	<15	<10	<5.0	<0.50	<0.60	<0.50	<0.50	<3.0	<6	<3.0	<2.1	<2.9							
1,1,2,2-Tetrachloroethane	<50	<1	<100	<0.2	<0.2	<2	<20	<20	<16	<8.0	<0.80	<0.15	<0.13	<0.13	<0.70	<1.4	<0.70	<1.9	<3.0							
1,1,2-Trichloroethane	<50	<1	<100	<1	<0.2	<2	<10	<10	<18	<9.0	<0.90	<0.40	<0.50	<0.50	<2.5	<5	<2.5	<2.6	<3.0							
1,1-Dichloroethane	<50	<1	<100	<0.2	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.50	<0.40	<0.40	<2.0	<4	<2.0	<2.0	<2.8							
1,1-Dichloroethene	<50	<1	<100	<0.4	<0.2	<2	<45	<45	<8.0	<4.0	<0.40	<0.50	<0.30	<0.30	<2.0	<4	<2.0	<2.4	<2.9							
1,1-Dichloropropene		<1	<100	<0.2	<0.3	<3	<20	<20	<10	<5.0	<0.50	<0.50	<0.60	<0.60	<2.5	<5	<2.5	<2.4	<4.0							
1,2,3-Trichlorobenzene		<1	<100	<0.5	<0.4	<4	<25	<25	<10	<5.0	<0.50	<0.60	<0.50	<0.50	<2.5	<5	<2.5	<3.0	<4.0							
1,2,3-Trichloropropane		<1	<100	<0.3	<0.2	<2	<15	<15	<16	<8.0	<0.80	<0.60	<0.70	<0.70	<1.5	<3	<1.5	<2.1	<4.0							
1,2,4-Trichlorobenzene		<1	<100	<0.5	<0.3	<3	<25	<25	<10	<5.0	<0.50	<0.70	<0.70	<0.70	<2.0	<4	<2.0	<3.0	<3.0							
1,2,4-Trimethylbenzene		**2400**	**606.2**	**1030**	**440**	**450**	**780**	**1200**	**530**	**210**	**24**	**8.1**	**130**	**79**	**350**	**210**	**390**	**420**	**380**		**150**	**130**	**56**	**130**	**96**	**100**
1,2-Dibromo-3-chloropropane		<3	<300	<0.3	<0.3	<3	<15	<15	<8.0	<4.0	<0.40	<1.1	<0.30	<0.30	<2.0	<4	<2.0	<4.0	<5.0							
1,2-Dibromoethane		<2	<200	<0.2	<0.4	<4	<15	<15	<6.0	<3.0	<0.30	<0.60	<0.50	<0.50	<0.65	<1.3	<0.65	<1.6	<3.0							
1,2-Dichlorobenzene		<1	<100	<0.3	<0.3	<3	<15	<15	<14	<7.0	<0.70	<0.50	<0.50	<0.50	<2.0	<4	<2.0	<2.3	<4.0							
1,2-Dichloroethane	<50	<1	<100	<0.2	<0.2	<2	<20	<20	<18	<9.0	<0.90	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<3.0	<3.0							
cis-1,2-Dichloroethene		<1	<100	<0.2	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.60	<0.40	<0.40	<2.0	<4	<2.0	<2.5	<3.0							
trans-1,2-Dichloroethene	<50	<1	<100	<0.2	<0.3	<3	<40	<40	<8.0	<4.0	<0.40	<0.60	<0.40	<0.40	<2.5	<5	<2.5	<2.5	<3.0							
1,2-Dichloropropane	<50	<1	<100	<0.1	<0.2	<2	<15	<15	<8.0	<4.0	<0.40	<0.50	<0.50	<0.50	<1.1	<2.1	<1.1	<2.2	<2.9							
1,3,5-Trimethylbenzene		**600**	**328.24**	**520**	**200**	**330**	**470**	**590**	**600**	**140**	**20**	**7.3**	**130**	**81**	**150**	**71**	**190**	**230**	**140**							
1,3-Dichlorobenzene		<1	<100	<0.7	<0.4	<4	<20	<20	<10	<5.0	<0.50	<0.50	<0.40	<0.40	<2.0	<4	<2.0	<2.6	<3.0							
cis-1,3-Dichloropropene	<50	<1	<100	<0.3	<0.3	<3	<10	<10	<12	<6.0	<0.60	<0.12	<0.14	<0.14	<0.70	<1.4	<0.70	<1.9	<2.8							
1,3-Dichloropropane		<1	<100	<0.3	<0.6	<6	<20	<25	<24	<12	<1.2	<0.60	<0.19	<0.19	<0.95	<1.9	<0.95	<2.3	<3.0							
trans-1,3-Dichloropropene	<50	<1	<100	<0.2	<0.2	<2	<25	<25	<14	<7.0	<0.70	<0.14	<0.14	<0.14	<0.70	<1.4	<0.70	<1.9	<3.0							
1,4-Dichlorobenzene		<1	<100	<0.3	<0.3	<3	<20	<20	<10	<5.0	<0.50	<0.50	<0.60	<0.60	<2.5	<5	<2.5	<2.3	<3.0							
2,2-Dichloropropane		<1	<100	<0.2	<0.5	<5	<10	<10	<12	<6.0	<0.60	<0.60	<0.60	<0.60	<1.5	<3	<1.5	<2.5	<2.8							
2-Butanone (MEK)	<100											<7.0	<5.0	<5.0	<20	<40	<20	<24	<30							
2-Chlorethyl vinyl ether																										
2-Chlorotoluene		<1	<100	<0.4	<0.3	<3	<20	<20	<12	<6.0	<0.60	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<2.2	<3.0							
2-Hexanone	<100											<7.0	<8.0	<8.0	<20	<40	<20	<40	<40							
4-Chlorotoluene		<1	<100	<0.3	<0.3	<3	<15	<15	<12	<6.0	<0.60	<0.40	<0.60	<0.60	<1.5	<3	<1.5	<2.1	<2.9							
4-Methyl-2-Pentanone (MIBK)	<100											<7.0	<6.0	<6.0	<15	<30	<15	<30	<30							
Acetone	**190**											<9.0	**12**	**16**	<35	<70	<35	<50	<50							
Benzene	<50	**5.3**	<100	<0.2	<0.3	<3	<5	<5.0	<8.0	<4.0	<0.40	<0.40	<0.40	<0.40	<0.80	<1.6	<0.80	<1.9	<3.0							
Bromobenzene		<1	<100	<0.3	<0.2	<2	<25	<25	<10	<5.0	<0.50	<0.50	<0.60	<0.60	<1.5	<3	<1.5	<2.0	<3.0							
Bromochloromethane		<1	<100	<0.4	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.50	<0.70	<0.70	<1.1	<2.1	<1.1	<2.2	<4.0							
Bromodichloromethane	<50	<1	<100	<0.2	<0.2	<2	<10	<10	<8.0	<4.0	<0.40	<0.13	<0.15	<0.15	<0.95	<1.9	<0.95	<2.0	<3.0							

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

Parameter	06/17/92	06/21/94	07/09/96	07/11/97	06/24/98	06/09/99	07/19/00	07/11/01	08/06/02	07/22/03	07/14/04	07/20/05	07/19/06	7/19/2006 Duplicate	07/11/07	07/24/08	07/07/09	07/14/10	07/25/11	07/10/12	07/08/13	07/08/14	07/09/15	07/07/16	07/17/17	07/12/18
Bromoform	<50	<1	<100	<0.3	<0.2	<2	<5	<5.0	<12	<6.0	<0.60	<0.50	<0.21	<0.21	<2.5	<5	<2.5	<2.2	<2.4							
Bromomethane	<100	<2	<200	<0.3	<0.9	<9	<20	<20	<16	<8.0	<0.80	<0.80	<0.90	<0.90	<2.0	<4	<2.0	<5.0	<3.0							
n-Butylbenzene		**320**	**631.4**	**360**	**130**	**240**	**250**	**350**	**570**	**180**	**37**	**4.5**	**19**	**22**	**29**	**15**	**41**	**42**	**12**							
sec-Butylbenzene		**160**	**238.3**	**260**	**66**	**66**	**79**	**47 J**	**78**	**26**	**9.9**	**6.1**	**10**	**11**	**21**	**12**	**30**	**27**	**15**							
tert-Butylbenzene		<25	<100	<0.3	<0.3	<3	<5	<5.0	<10	<5.0	**7**	**2.1**	**7.2**	**8.4**	**8.7**	**4.4**	**11**	**5.2**	**5.6**							
Carbon disulfide	<50											<1.1	<1.0	<1.0	<2.5	<5	<2.5	<5.0	<6.0							
Carbon tetrachloride	<50	<1	<100	<0.2	<0.4	<4	<15	<15	<12	<6.0	<0.60	<0.50	<0.50	<0.50	<2.0	<4	<2.0	<2.3	<4.0							
Chlorobenzene	<50	<1	<100	<0.3	<0.3	<3	<15	<15	<16	<8.0	<0.80	<0.50	<0.40	<0.40	<1.5	<3	<1.5	<2.4	<3.0							
Chlorodibromomethane	<50	<1	<100	<0.3	<0.3	<3	<20	<20	<8.0	<4.0	<0.40	<0.60	<0.60	<0.60	<1.2	<2.3	<1.2	<1.9	<2.6							
Chloroethane	<100	<2	<200	<0.4	<0.8	<8	<25	<25	<10	<5.0	<0.50	<0.70	<0.60	<0.60	<2.0	<4	<2.0	<4.0	<3.0							
Chloroform	<50	**3.5**	<100	<0.2	<0.2	<2	<25	<25	<12	<6.0	<0.60	<0.50	<0.50	<0.50	<1.1	<2.2	<1.1	**4.8**	**5.9**							
Chloromethane	<100	<2	<200	<0.7	<0.9	<9	<15	<15	<8.0	<4.0	<0.40	<0.24	<0.30	**0.36**	<1.5	<3	<1.5	<4.0	<4.0							
Dibromomethane		<1	<100	<0.1	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.70	<0.80	<0.80	<2.0	<4	<2.0	<2.4	<3.0							
Dichlorodifluoromethane		<2	<200	<0.3	<1.2	<12	<25	<25	<10	<5.0	<0.50	<0.60	<0.29	<0.29	<2.0	<4	<2.0	<2.6	<3.0							
Diisopropyl Ether						<3	<5	<5.0	<10	<5.0	<0.50	<0.50	<0.40	<0.40	<2.5	<5	<2.5	<2.0	<3.0							
Ethylbenzene	**69.5**	75	<100	<0.2	<0.2	<2	<5	<5.0	<10	<5.0	<0.50	<0.50	<0.50	<0.50	**2.2**	<2.8	**6.8**	**3.4**	**3**							
Hexachlorobutadiene		<1	<100	<0.5	<0.6	<6	<30	<30	<10	<5.0	<0.50	<0.60	<0.90	<0.90	<3.0	<6	<3.0	<3.0	<4.0							
Isopropylbenzene		**180**	**180.87**	**310**	**44**	**27**	**25**	**24**	**33**	<5.0	**5.7**	**0.45**	**0.99**	**1.2**	**10**	**6.7**	**16**	<1.8	**15**							
p-Isopropyltoluene		<25	<100	**480**	**56**	**78**	**78**	**64**	**110**	**37**	**9.9**	**4.6**	**23**	**27**	**30**	**13**	**42**	**38**	**13**							
Methyl tert-butyl ether						<2	<55	<55	<10	<5.0	<0.50	<0.60	<0.40	<0.40	<1.2	<2.3	<1.2	<2.9	<3.0							
Methylene chloride	<50	<3	<300	<0.3	<0.5	<5	<95	<95	<20	<10	**2.9 J,A,B,Q**	<0.40	<1.0	<1.0	**2.7**	<5	<2.5	**10**	**9.8 B**							
Naphthalene	**632**	**160**	**121.68**	<0.8	**48**	**40**	**84**	**130**	**54**	<5.0	**1.2 J**	**0.75**	**5**	**6.9**	**35**	**25**	**72**	**30**	**13**	**19**	**21**	**23**	**12**	**19**	**13**	**14**
n-Propylbenzene		**280**	<100	**710**	**54**	**34**	**41**	**53**	**58**	**14**	**5.1**	**0.98**	**2.1**	**2.5**	**16**	**10**	**27**	**17**	**21**							
Styrene	<50	<25	**309.4**	<0.2	<0.2	<2	<10	<10	**63**	**27**	**14**	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<2.0	<3.0							
Tetrachloroethene	<50	**3**	<100	<0.3	<0.6	<6	<20	<20	<10	<5.0	**5**	**0.47**	**1.6**	**2**	<2.0	<4	<2.0	<3.0	<3.0							
Tetrahydrofuran												<7.0	<7.0	<7.0	<20	<40	<20	<30	<40							
Toluene	**189**	<1	<100	<0.2	<0.2	<2	**18**	<5.0	<10	<5.0	<0.50	<0.40	<0.40	<0.40	<1.0	<2	<1.0	<2.2	<3.0							
Trichloroethene	<50	**19**	<100	<0.2	<0.3	<3	<15	<15	<12	<6.0	<0.60	**0.31**	**0.34**	**0.33**	<0.75	<1.5	<0.75	<2.1	<4.0							
Trichlorofluoromethane		<1	<100	<0.5	<0.6	<6	<20	<20	<8.0	<4.0	<0.40	<0.50	<0.70	<0.70	<2.0	<4	<2.0	<2.0	<4.0							
Vinyl acetate	<100											<8.0	<1.7	<1.7	<5.5	<11	<5.5	<30	<40							
Vinyl chloride	<100	<1	<100	<0.3	<0.5	<5	<20	<20	<6.0	<3.0	<0.30	<0.12	<0.15	<0.15	<0.75	<1.5	<0.75	<1.8	<1.9							
Xylene, m & p-		**450**	<200	**90**	**46**	**23**	**87**	**75**	**33**	**6.4**	**2**	<1.0	**1.3**	**1.8**	**9.3**	**8.3**	**22**	**17**	**19**		<4.5	<5.0	<2.2	**6**	<4.0	<4.0
Xylene, o-		**600**	<100	<0.2	<0.5	**87**	**230**	**190**	**82**	**14**	<0.50	**0.62**	**4.6**	**6.5**	**38**	**38**	**86**	**76**	**55**		**23**	**18**	**11**	**20**	**13**	**15**
Xylenes, Total	**1000**											**0.62**	**5.9**	**8.3**	**47.3**	**46.3**	**108**	**93**	**74**		**23**	**18**	**11**	**26**	**13**	**15**

Prepared By: T. Dushek, 12/5/18
Checked by: A.Voit, 12/16/18

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W40-W40R

Parameter	07/15/10	07/25/11	07/19/12	07/08/13	07/08/14	07/09/15	07/12/16	07/18/17	07/19/18	07/18/19
1,1,1,2-Tetrachloroethane	<2.4	<10								
1,1,1-Trichloroethane	<2.1	<7.3								
1,1,2,2-Tetrachloroethane	<1.9	<7.5								
1,1,2-Trichloroethane	<2.6	<7.5								
1,1-Dichloroethane	<2.0	<7.0								
1,1-Dichloroethene	<2.4	<7.3								
1,1-Dichloropropene	<2.4	<10								
1,2,3-Trichlorobenzene	<3.0	<10								
1,2,3-Trichloropropane	<2.1	<10								
1,2,4-Trichlorobenzene	<3.0	<7.5								
1,2,4-Trimethylbenzene	**2000**	**1700**		**4300**	**1600**	**1400**	**1400**	**2200**	**4400**	**1200**
1,2-Dibromo-3-chloropropane	<4.0	<13								
1,2-Dibromoethane	<1.6	<7.5								
1,2-Dichlorobenzene	<2.3	<10								
1,2-Dichloroethane	<3.0	<7.5								
cis-1,2-Dichloroethene	<2.5	<7.5								
trans-1,2-Dichloroethene	<2.5	<7.5								
1,2-Dichloropropane	<2.2	<7.3								
1,3,5-Trimethylbenzene	**590**	**610**								
1,3-Dichlorobenzene	<2.6	<7.5								
cis-1,3-Dichloropropene	<1.9	<7.0								
1,3-Dichloropropane	<2.3	<7.5								
trans-1,3-Dichloropropene	<1.9	<7.5								
1,4-Dichlorobenzene	<2.3	<7.5								
2,2-Dichloropropane	<2.5	<7.0								
2-Butanone (MEK)	<24	<75								
2-Chlorethyl vinyl ether										
2-Chlorotoluene	<2.2	<7.5								
2-Hexanone	<40	<100								
4-Chlorotoluene	<2.1	<7.3								
4-Methyl-2-Pentanone (MIBK)	<30	<75								
Acetone	<50	<130								
Benzene	**2.7**	<7.5								
Bromobenzene	<2.0Q	<7.5								
Bromochloromethane	<2.2	<10								
Bromodichloromethane	<2.0	<7.5								
Bromoform	<2.2	<6.0								
Bromomethane	<5.0	<7.5								
n-Butylbenzene	**150**	**73**								
sec-Butylbenzene	**78**	**49**								
tert-Butylbenzene	**22**	**17**								
Carbon disulfide	<5.0	<15								
Carbon tetrachloride	<2.3	<10								
Chlorobenzene	<2.4	<7.5								
Chlorodibromomethane	<1.9	<6.5								
Chloroethane	<4.0	<7.5								
Chloroform	**8**	**6.2**								
Chloromethane	<4.0	<10								
Dibromomethane	<2.4	<7.5								
Dichlorodifluoromethane	<2.6	<7.5								
Diisopropyl Ether	<2.0	<7.5								
Ethylbenzene	**38**	**36**								
Hexachlorobutadiene	<3.0	<10								

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W40-W40R

Parameter	07/15/10	07/25/11	07/19/12	07/08/13	07/08/14	07/09/15	07/12/16	07/18/17	07/19/18	07/18/19
Isopropylbenzene	**49**	**50**								
p-Isopropyltoluene	**120**	**83**								
Methyl tert-butyl ether	<2.9	<7.5								
Methylene chloride	**8.9**	**31 B**								
Naphthalene	**170**	**230**	**150 M**	**600**	**250**	**200**	**200**	**300**	**580**	**150**
n-Propylbenzene	**100**	**79**								
Styrene	<2.0	<7.5								
Tetrachloroethene	<3.0	<7.5								
Tetrahydrofuran	<30	<100								
Toluene	**12**	**14**								
Trichloroethene	**21**	**17**								
Trichlorofluoromethane	<2.0	<10								
Vinyl acetate	<30	<100								
Vinyl chloride	<1.8	<4.8								
Xylene, m & p-	**160**	**170**		**130**	<50	**66**	**120**	**89**	**100**	**31**
Xylene, o-	**460**	**450**		**680**	**440**	**380**	**450**	**440**	**790**	**270**
Xylenes, Total	**620**	**620**		**810**	**440**	**446**	**570**	**529**	**890**	**301**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W41

Parameter	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	01/31/01	07/11/01	08/06/02
1,1,1,2-Tetrachloroethane				<1		<1	<1		<10	<0.1	<0.3	<3	<4	<2.0	<2.0	<4.5
1,1,1-Trichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<3	<2.0	<1.5	<2.5
1,1,2,2-Tetrachloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4	<2.0	<2.0	<4.0
1,1,2-Trichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<1	<0.2	<2	<2	<1.0	<1.0	<4.5
1,1-Dichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4	<1.0	<2.0	<2.5
1,1-Dichloroethene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.4	<0.2	<2	<9	<2.0	<4.5	<2.0
1,1-Dichloropropene				<1		<1	<1		<10	<0.2	<0.3	<3	<4	<2.0	<2.0	<2.5
1,2,3-Trichlorobenzene				<1	<100	<1	<1		<10	<0.5	<0.4	<4	<5	<3.0	<2.5	<2.5
1,2,3-Trichloropropane				<1		<1	<1		<10	<0.3	<0.2	<2	<3	<1.0	<1.5	<4.0
1,2,4-Trichlorobenzene				<1	<100	<1	<1		<10	<0.5	<0.3	<3	<5	<3.0	<2.5	<2.5
1,2,4-Trimethylbenzene				**620**	**2200**	**110**	**20**		**137.7**	**160**	**340**	**310**	**250**	**270**	**200**	**86**
1,2-Dibromo-3-chloropropane				<3	<300	<3	<3		<30	<0.3	<0.3	<3	<3	<4.0	<1.5	<2.0
1,2-Dibromoethane				<2	<200	<2	<2		<20	<0.2	<0.4	<4	<3	<1.0	<1.5	<1.5
1,2-Dichlorobenzene				<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<3	<2.0	<1.5	<3.5
1,2-Dichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4	<2.0	<2.0	<4.5
cis-1,2-Dichloroethene				<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<4	<2.0	<2.0	<2.5
trans-1,2-Dichloroethene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	<3	<8	<1.0	<4.0	<2.0
1,2-Dichloropropane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.1	<0.2	<2	<3	<2.0	<1.5	<2.0
1,3,5-Trimethylbenzene				**230**	**2400**	**130**	**400**		**85.0**	**140**	**190**	**180**	**140**	**140**	**100**	**47**
1,3-Dichlorobenzene				<1	<100	<1	<1	<20	<10	<0.7	<0.4	<4	<4	<1.0	<2.0	<2.5
cis-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.3	<3	<2	<1.0	<1.0	<3.0
1,3-Dichloropropane				<1	<100	<1	<1		<10	<0.3	<0.6	<6	<4	<1.0	<2.0	<6.0
trans-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<20	<10	<0.2	<0.2	<2	<5	<1.0	<2.5	<3.5
1,4-Dichlorobenzene				<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<4	<1.0	<2.0	<2.5
2,2-Dichloropropane				<1	<100	<1	<1		<10	<0.2	<0.5	<5	<2	<2.0	<1.0	<3.0
2-Butanone (MEK)	<100	<100	**38.5**													
2-Chloroethyl vinyl ether								<200								
2-Chlorotoluene				<1	<100	<1	<1		<10	<0.4	<0.3	<3	<4	<1.0	<2.0	<3.0
2-Hexanone	<100	<100	<10													
4-Chlorotoluene				<1	<100	<1	<1		<10	<0.3	<0.3	<3	<3	<2.0	<1.5	<3.0
4-Methyl-2-Pentanone (MIBK)	<100	<100	<10													
Acetone	**191**	**123**	**170**													
Benzene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	<3	<1	<1.0	<0.5	<2.0
Bromobenzene				<1	<100	<1	<1		<10	<0.3	<0.2	<2	<5	<1.0	<2.5	<2.5
Bromochloromethane				<1		<1	<1		<10	<0.4	<0.2	<2	<4	<1.0	<2.0	<2.5
Bromodichloromethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2	<2	<1.0	<1.0	<2.0
Bromoform	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.2	<2	<1	<2.0	<0.5	<3.0
Bromomethane	<100	<100	<10	<2		<2	<2	<40	<20	<0.3	<0.9	<9	<4	<4.0	<2.0	<4.0
n-Butylbenzene				**230**	**4800**	**120**	**280**		**128.9**	**110**	**170**	**180**	**190**	**18**	**120**	**76**
sec-Butylbenzene				**58**	**2900**	**12**	**13**		**21.7**	<0.3	**60**	75	47	**18**	**39**	**15**
tert-Butylbenzene				<1	<100	<1	<1		<10	<0.3	**40**	<3	<1	**9.1**	<0.5	<2.5
Carbon disulfide	<50	<50	<5													
Carbon tetrachloride	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.4	<4	<3	<1.0	<1.5	<3.0
Chlorobenzene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<3	<1.0	<1.5	<4.0
Chlorodibromomethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3	<4	<2.0	<2.0	<2.0
Chloroethane	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.4	<0.8	<8	<5	<4.0	<2.5	<2.5
Chloroform	<50	<50	<5	<1	<100	<1	**2.8**	<20	<10	<0.2	<0.2	<2	<5	<1.0	<2.5	<3.0

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W41

Parameter	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	01/31/01	07/11/01	08/06/02
Chloromethane	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.7	<0.9	<9	<3	<2.0	<1.5	<2.0
Dibromomethane				<1		<1	<1		<10	<0.1	<0.2	<2	<4	<2.0	<2.0	<2.5
Dichlorodifluoromethane				<2	<200	<2	<2		<20	<0.3	<1.2	<12	<5	<1.0	<2.5	<2.5
Diisopropyl Ether					<100							<3	<1	<1.0	<0.5	<2.5
Ethylbenzene	<50	<50	<5	**6.3**	**600**	<1	<1	<20	<10	<0.2	<0.2	<2	<1	**1.4**	<0.5	<2.5
Hexachlorobutadiene				<1	<100	<1	<1		<10	<0.5	<0.6	<6	<6	<2.0	<3.0	<2.5
Isopropylbenzene				**57**	**2000**	**7.1**	**14**		**21.9**	<0.2	**68**	**60**	**22**	**8.9**	**35**	**10**
p-Isopropyltoluene				**<1**	**1200**	**13**	<1		**56.0**	<0.4	**40**	**160**	**40**	**16**	**39**	**16**
Methyl tert-butyl ether					<100							<2	<11	<3.0	<5.5	<2.5
Methylene chloride	<50	**53.7**	<10	<3	<300	<3	<3	<60	<30	<0.3	<0.5	<5	<19	<4.0	<9.5	<5.0
Naphthalene	<103	**48.1**	**52.3**	**95**	**630**	**44**	**27**	**52**	**17.2**	<0.8	**34**	**32**	**19**	**26**	**15**	**4.6**
n-Propylbenzene				**36**	**2400**	**6.6**	<1		**25.6**	**110**	**54**	**57**	**32**	**14**	**35**	**12**
Styrene	<50	<50	<5	**5.9**		<1	<1		<10	<0.2	<0.2	<2	<2	<1.0	<1.0	**18**
Tetrachloroethene	<50	<50	<5	**1.3**	<100	**3.8**	**6.5**	<20	<10	<0.3	<0.6	<6	<4	**1.6**	**10**	**4.1**
Tetrahydrofuran																
Toluene	<50	<50	<5	**7.5**	<100	**3.6**	<1	<20	<10	<0.2	<0.2	<2	**4**	<2.0	<0.5	<2.5
Trichloroethene	<50	<50	<5	**3.8**	<100	**4**	**4.4**	<20	<10	<0.2	<0.3	<3	<3	<2.0	<1.5	<3.0
Trichlorofluoromethane				<1	<100	<1	<1	<20	<10	<0.5	<0.6	<6	<4	<2.0	<2.0	<2.0
Vinyl acetate	<100	<100	<10													
Vinyl chloride	<100	<100	<10	<1	<100	<1	<1	<20	<10	<0.3	<0.5	<5	<4	<1.0	<2.0	<1.5
Xylene, m & p-				**60**	**500**	**5**	**5.8**	**77**	<20	<0.4	**48**	**22**	**11**	**7.6**	**13**	**4.7**
Xylene, o-				**190**	**2700**	**18**	**160**	**140**	<10	<0.2	<0.5	**140**	**69**	**21**	<0.5	<2.5
Xylenes, Total	**66.2**	**135**	**67.3**													

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W41

Parameter	07/22/03	07/13/04	7/13/2004 Duplicate	07/19/05	07/19/06	07/10/07	07/24/08	07/07/09	07/14/10	07/20/11	07/10/12	07/05/13	07/09/14	07/08/15	07/12/16	07/18/17	07/18/18	07/15/19
1,1,1,2-Tetrachloroethane	<4.5	<0.90	<4.5	<10.0	<3.5 *	<3.0	<3.0	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<2.5	<0.50	<2.5	<12.0	<2.5 *	<3.0	<3.0	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<4.0	<0.80	<4.0	<3.0	<0.65 *	<0.70	<0.70	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<4.5	<0.90	<4.5	<8.0	<2.5 *	<2.5	<2.5	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<2.5	<0.50	<2.5	<10.0	<2.0 *	<2.0	<2.0	<0.40	<0.20	<0.28								
1,1-Dichloroethene	<2.0	<0.40	<2.0	<10.0	<1.5 *	<2.0	<2.0	<0.40	<0.24	<0.29								
1,1-Dichloropropene	<2.5	<0.50	<2.5	<10.0	<3.0 *	<2.5	<2.5	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene	<2.5	<0.50	<2.5	<12.0	<2.5 *	<2.5	<2.5	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane	<4.0	<0.80	<4.0	<12.0	<3.5 *	<1.5	<1.5	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene	<2.5	<0.50	<2.5	<14.0	<3.5 *	<2.0	<2.0	<0.40	<0.30	<0.30								
1,2,4-Trimethylbenzene	**130**	**4.0**	**90**	**220**	**200** *	**1**	**29**	**120**	**49**	**150**		**54**	**170**	**230**	**300**	**160**	**220**	**310**
1,2-Dibromo-3-chloropropane	<2.0	<0.40	<2.0	<22.	<1.5 *	<2.0	<2.0	<0.40	<0.40	<0.50								
1,2-Dibromoethane	<1.5	<0.30	<1.5	<12.0	<2.5 *	<0.65	<0.65	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene	<3.5	<0.70	<3.5	<10.0	<2.5 *	<2.0	<2.0	<0.40	<0.23	<0.40								
1,2-Dichloroethane	<4.5	<0.90	<4.5	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.30	<0.30								
cis-1,2-Dichloroethene	<2.5	<0.50	<2.5	<12.0	<2.0 *	<2.0	<2.0	<0.40	<0.25	<0.30								
trans-1,2-Dichloroethene	<2.0	<0.40	<2.0	<12.0	<2.0 *	<2.5	<2.5	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<2.0	<0.40	<2.0	<10.0	<2.5 *	<1.1	<1.1	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene	**75**	**2.4**	**55**	**140**	**110***	**150**	**27**	**120**	**47**	**60**								
1,3-Dichlorobenzene	<2.5	<0.50	<2.5	<10.0	<2.0*	<2.0	<0.95	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<3.0	<0.60	<3.0	<2.4	<0.75*	<0.70	<0.70	<0.14	<0.19	<0.28								
1,3-Dichloropropane	<6.0	<1.2	<6.0	<12.0	<2.5 *	<0.95	<0.95	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<3.5	<0.70	<3.5	<2.8	<0.70*	<0.70	<0.70	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene	<2.5	<0.50	<2.5	<10.0	<3.0 *	<2.5	<2.5	<0.50	<0.23	<0.30								
2,2-Dichloropropane	<3.0	<0.60	<3.0	<12.0	<3.0 *	<1.5	<1.5	<0.30	<0.25	<0.28								
2-Butanone (MEK)				<140.	**46** *	**27**	<20	**9.7**	**2.4**	**3.8**								
2-Chloroethyl vinyl ether																		
2-Chlorotoluene	<3.0	<0.60	<3.0	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.22	<0.30								
2-Hexanone				<140.	<40 *	<20	<20	<4.0	<4.0	<4.0								
4-Chlorotoluene	<3.0	<0.60	<3.0	<8.0	<3.0 *	<1.5	<1.5	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)				<140.	<30 *	<15	<15	<3.0	<3.0	<3.0								
Acetone				<180.	**55** *	**43**	<35	<7.0	<5.0	<5.0								
Benzene	<2.0	<0.40	<2.0	<8.0	<2.0 *	<0.80	<0.80	<0.16	<0.19	<0.30								
Bromobenzene	<2.5	<0.50	<2.5	<10.0	<3.0 *	<1.5	<1.5	<0.30	<0.20	<0.30								
Bromochloromethane	<2.5	<0.50	<2.5	<10.0	<3.5 *	<1.1	<1.1	<0.21	<0.22	<0.40								
Bromodichloromethane	<2.0	<0.40	<2.0	<2.6	<0.75 *	<0.95	<0.95	<0.19	<0.20	<0.30								
Bromoform	<3.0	<0.60	<3.0	<10.0	<1.1 *	<2.5	<2.5	<0.50	<0.22	<0.24								
Bromomethane	<4.0	<0.80	<4.0	<16.0	<4.5 *	<2.0	<2.0	<0.40	<0.50	<0.30								
n-Butylbenzene	**150**	**14**	**64**	**18**	**21** *	**26**	**10**	**28**	**11**	**6.1**								
sec-Butylbenzene	**35**	**8**	**21**	**14**	**20** *	**20**	**7.4**	**18**	**9.2**	**4.7**								
tert-Butylbenzene	<2.5	5.6	<2.5	<10.0	**10** *	**9.7**	**2.4**	**9.4**	**3.5**	**4.5**								
Carbon disulfide				<22.	<5.0 *	<2.5	<2.5	<0.50	<0.50	<0.60								
Carbon tetrachloride	<3.0	<0.60	<3.0	<10.0	<2.5 *	<2.0	<2.0	<0.40	<0.23	<0.40								
Chlorobenzene	<4.0	<0.80	<4.0	<10.0	<2.0 *	<1.5	<1.5	<0.30	<0.24	<0.30								
Chlorodibromomethane	<2.0	<0.40	<2.0	<12.0	<3.0 *	<1.2	<1.2	<0.23	<0.19	<0.26								
Chloroethane	<2.5	<0.50	<2.5	<14.0	**4.9** *	**3.4**	<2.0	<0.40	<0.40	<0.30								
Chloroform	<3.0	<0.60	<3.0	<10.0	<2.5 *	<1.1	<1.1	<0.22	<0.15	**11**								

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W41

Parameter	07/22/03	07/13/04	7/13/2004 Duplicate	07/19/05	07/19/06	07/10/07	07/24/08	07/07/09	07/14/10	07/20/11	07/10/12	07/05/13	07/09/14	07/08/15	07/12/16	07/18/17	07/18/18	07/15/19
Chloromethane	<2.0	<0.40	<2.0	<4.8	**2.3** *	**2.8**	<1.5	**0.68AB**	<0.40	<0.40								
Dibromomethane	<2.5	<0.50	<2.5	<14.0	<4.0 *	<2.0	<2.0	<0.40	<0.24	<0.30								
Dichlorodifluoromethane	<2.5	<0.50	<2.5	<12.0	<1.5 *	<2.0	<2.0	<0.40	<0.26	<0.30								
Diisopropyl Ether	<2.5	<0.50	<2.5	<10.0	<2.0 *	<2.5	<2.5	<0.50	<0.20	<0.30								
Ethylbenzene	<2.5	<0.50	<2.5	<10.0	<2.5 *	<1.4	<1.4	**0.47**	**0.41**	**0.91**								
Hexachlorobutadiene	<2.5	<0.50	<2.5	<12.0	<4.5 *	<3.0	<3.0	<0.60	<0.30	<0.40								
Isopropylbenzene	<2.5	**0.92 J**	**18**	<8.0	**7.4** *	**7.1**	<1	**3.8**	**0.27**	**7.7**								
p-Isopropyltoluene	**42**	<0.50	<2.5	**19**	**24** *	**23**	**8.8**	**22**	**8.7**	**3.3**								
Methyl tert-butyl ether	<2.5	<0.50	<2.5	<12.0	<2.0 *	<1.2	<1.2	<0.23	<0.29	<0.30								
Methylene chloride	<5.0	**3.0 J,A,B,Q**	**25 A,B,Q**	<8.0	**19 Q***	**12**	<2.5	<0.50	<0.40	**0.54 B**								
Naphthalene	**10**	**0.84 J**	**5.5 J**	<12.0	**9.4** *	**11**	<3.0	**5.2**	<0.40	**22**	<1.6 V	**25**	**50**	**52**	**42**	**26**	**40**	**38**
n-Propylbenzene	**23**	**0.78 J**	**16**	**12**	**14** *	**15**	**3**	**8.5**	**3.7**	**11**								
Styrene	**65**	**2.1**	**36**	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.20	<0.30								
Tetrachloroethene	**9.0**	<0.50	**5.7 J**	<8.0	**2.1** *	<2.0	**3**	**2.4**	**1.8**	**2.3**								
Tetrahydrofuran		0.60		<140	<35 *	<20	<20	<4.0	<3.0	<4.0								
Toluene	<2.5	<0.50	<2.5	<8.0	<2.0 *	<1.0	<1.0	<0.20	<0.22	<0.30								
Trichloroethene	<3.0	<0.15	<3.0	<3.0	<0.75 *	<0.75	<0.75	**0.36**	<0.21	<0.40								
Trichlorofluoromethane	<2.0	<0.40	<2.0	<10.0	<3.5 *	<2.0	<2.0	<0.40	<0.20	<0.40								
Vinyl acetate				<160.	<8.5 *	<5.5	<5.5	<1.1	<3.0	<4.0								
Vinyl chloride	<1.5	<0.30	<1.5	<2.4	<0.75 *	<0.75	<0.75	<0.15	<0.18	<0.19								
Xylene, m & p-	**14**	<0.60	**7.1 J**	<20.0	<4.5 *	**4.1**	<2.5	**2.3**	**2.1**	**3.6**		**5.1**	**6.8**	**8.1**	**16**	<8.0	**6**	<8
Xylene, o-	<2.5	<0.50	<2.5	**15**	**18** *	**19**	**12**	**17**	**14**	**31**		**57**	**96**	**89**	**110**	**56**	**50**	**45**
Xylenes, Total				**15**	**18** *	**23.1**	**12**	**19.3**	**16.1**	**34.6**		**62.1**	**102.8**	**97.1**	**126**	**56**	**56**	**45**

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W69

Parameter	07/14/04	7/14/2004 Duplicate	07/23/08	07/25/11	07/10/12	07/08/13
1,1,1,2-Tetrachloroethane	<18	<18	<6	<0.80		
1,1,1-Trichloroethane	<10	<10	<6	<0.58		
1,1,2,2-Tetrachloroethane	<16	<16	<1.4	<0.60		
1,1,2-Trichloroethane	<18	<18	<5	<0.60		
1,1-Dichloroethane	<10	<10	<4	<0.56		
1,1-Dichloroethene	<8.0	<8.0	<4	<0.58		
1,1-Dichloropropene	<10	<10	<5	<0.80		
1,2,3-Trichlorobenzene	<10	<10	<5	<0.80		
1,2,3-Trichloropropane	<16	<16	<3	<0.80		
1,2,4-Trichlorobenzene	<10	<10	<4	<0.60		
1,2,4-Trimethylbenzene	**740**	**1700**	**620**	**140**		**210**
1,2-Dibromo-3-chloropropane	<8.0	<8.0	<4	<1.0		
1,2-Dibromoethane	<6.0	<6.0	<1.3	<0.60		
1,2-Dichlorobenzene	<14	<14	<4	<0.80		
1,2-Dichloroethane	<18	<18	<3	<0.60		
cis-1,2-Dichloroethene	<10	<10	<4	<0.60		
trans-1,2-Dichloroethene	<8.0	<8.0	<5	<0.60		
1,2-Dichloropropane	<8.0	<8.0	<2.1	<0.58		
1,3,5-Trimethylbenzene	**320**	**820**	**170**	**72**		
1,3-Dichlorobenzene	<10	<10	<4	<0.60		
cis-1,3-Dichloropropene	<12	<12	<1.4	<0.56		
1,3-Dichloropropane	<24	<24	<1.9	<0.60		
trans-1,3-Dichloropropene	<14	<14	<1.4	<0.60		
1,4-Dichlorobenzene	<10	<10	<5	<0.60		
2,2-Dichloropropane	<12	<12	<3	<0.56		
2-Butanone (MEK)			<40	<6.0		
2-Chloroethyl vinyl ether						
2-Chlorotoluene	<12	<12	<3	<0.60		
2-Hexanone			<40	<8.0		
4-Chlorotoluene	<12	<12	<3	<0.58		
4-Methyl-2-Pentanone (MIBK)			<30	<6.0		
Acetone			<70	<10		
Benzene	<8.0	<8.0	<1.6	<0.60		
Bromobenzene	<10	<10	<3	<0.60		
Bromochloromethane	<10	<10	<2.1	<0.80		
Bromodichloromethane	<8.0	<8.0	<1.9	<0.60		
Bromoform	<12	<12	<5	<0.48		
Bromomethane	<16	<16	<4	<0.60		
n-Butylbenzene	**270**	**760**	**14**	**21**		
sec-Butylbenzene	**45**	**130**	**13**	**16**		
tert-Butylbenzene	<10	<10	**4.1**	**3.7**		

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W69

Parameter	07/14/04	7/14/2004 Duplicate	07/23/08	07/25/11	07/10/12	07/08/13
Carbon disulfide			<5	<1.2		
Carbon tetrachloride	<12	<12	<4	<0.80		
Chlorobenzene	<16	<16	<3	<0.60		
Chlorodibromomethane	<8.0	<8.0	<2.3	<0.52		
Chloroethane	<10	<10	<4	<0.60		
Chloroform	<12	<12	<2.2	<0.46		
Chloromethane	<8	<8	<3	<0.80		
Dibromomethane	<10	<10	<4	<0.60		
Dichlorodifluoromethane	<10	<10	<4	<0.60		
Diisopropyl Ether	<10	<10	<5	<0.60		
Ethylbenzene	<10	**16**	**24**	**3.5**		
Hexachlorobutadiene	<10	<10	<6	<0.80		
Isopropylbenzene	**46**	**110**	**40**	**9.5**		
p-Isopropyltoluene	**56**	**180**	**15**	**16**		
Methyl tert-butyl ether	<10	<10	<2.3	<0.60		
Methylene chloride	**76**	**78**	<5	<0.80		
Naphthalene	**32**	**46**	**33**	**7**	**2.8**	**23**
n-Propylbenzene	**78**	**190**	**67**	**18**		
Styrene	<10	<10	<3	<0.60		
Tetrachloroethene	**15**	**49**	<4	**2.4**		
Tetrahydrofuran			<40	<8.0		
Toluene	<10	<10	**4.5**	**0.75**		
Trichloroethene	<12	<12	**8.5**	**3.2**		
Trichlorofluoromethane	<8.0	<8.0	<4	<0.80		
Vinyl acetate			<11	<8.0		
Vinyl chloride	<6.0	<6.0	<1.5	<0.38		
Xylene, m & p-	**54**	**96**	**76**	**9.6**		**10**
Xylene, o-	**230**	**470**	**220**	**56**		**52**
Xylenes, Total	**284**	**566**	**296**	**65.6**		**62**

Prepared By: T. Dushek, 8/7/13

Checked by: A.Voit, 9/21/13

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W71

Parameter	07/01/16	07/10/17	07/10/18	07/15/19
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,1-Dichloropropene				
1,2,3-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
cis-1,2-Dichloroethene				
trans-1,2-Dichloroethene				
1,2-Dichloropropane				
1,3,5-Trimethylbenzene				
1,3-Dichlorobenzene				
cis-1,3-Dichloropropene				
1,3-Dichloropropane				
trans-1,3-Dichloropropene				
1,4-Dichlorobenzene				
2,2-Dichloropropane				
2-Butanone (MEK)				
2-Chlorethyl vinyl ether				
2-Chlorotoluene				
2-Hexanone				
4-Chlorotoluene				
4-Methyl-2-Pentanone (MIBK)				
Acetone				
Benzene				
Bromobenzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
Carbon disulfide				
Carbon tetrachloride				
Chlorobenzene				
Chlorodibromomethane				
Chloroethane				
Chloroform				
Chloromethane				
Dibromomethane				
Dichlorodifluoromethane				
Diisopropyl Ether				
Ethylbenzene				
Hexachlorobutadiene				

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W71

Parameter	07/01/16	07/10/17	07/10/18	07/15/19
Isopropylbenzene				
p-Isopropyltoluene				
Methyl tert-butyl ether				
Methylene chloride				
Naphthalene	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene				
Styrene				
Tetrachloroethene				
Tetrahydrofuran				
Toluene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl acetate				
Vinyl chloride				
Xylene, m & p-	<0.80	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19
NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W72

Parameter	07/01/16	07/10/17	07/10/18	07/11/19
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,1-Dichloropropene				
1,2,3-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
cis-1,2-Dichloroethene				
trans-1,2-Dichloroethene				
1,2-Dichloropropane				
1,3,5-Trimethylbenzene				
1,3-Dichlorobenzene				
cis-1,3-Dichloropropene				
1,3-Dichloropropane				
trans-1,3-Dichloropropene				
1,4-Dichlorobenzene				
2,2-Dichloropropane				
2-Butanone (MEK)				
2-Chlorethyl vinyl ether				
2-Chlorotoluene				
2-Hexanone				
4-Chlorotoluene				
4-Methyl-2-Pentanone (MIBK)				
Acetone				
Benzene				
Bromobenzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
Carbon disulfide				
Carbon tetrachloride				
Chlorobenzene				
Chlorodibromomethane				
Chloroethane				
Chloroform				
Chloromethane				
Dibromomethane				
Dichlorodifluoromethane				
Diisopropyl Ether				
Ethylbenzene				
Hexachlorobutadiene				

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W72

Parameter	07/01/16	07/10/17	07/10/18	07/11/19
Isopropylbenzene				
p-Isopropyltoluene				
Methyl tert-butyl ether				
Methylene chloride				
Naphthalene	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene				
Styrene				
Tetrachloroethene				
Tetrahydrofuran				
Toluene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl acetate				
Vinyl chloride				
Xylene, m & p-	<0.80	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19
NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W73

Parameter	07/01/16	07/10/17	07/10/18	07/11/19
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,1-Dichloropropene				
1,2,3-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
cis-1,2-Dichloroethene				
trans-1,2-Dichloroethene				
1,2-Dichloropropane				
1,3,5-Trimethylbenzene				
1,3-Dichlorobenzene				
cis-1,3-Dichloropropene				
1,3-Dichloropropane				
trans-1,3-Dichloropropene				
1,4-Dichlorobenzene				
2,2-Dichloropropane				
2-Butanone (MEK)				
2-Chlorethyl vinyl ether				
2-Chlorotoluene				
2-Hexanone				
4-Chlorotoluene				
4-Methyl-2-Pentanone (MIBK)				
Acetone				
Benzene				
Bromobenzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
Carbon disulfide				
Carbon tetrachloride				
Chlorobenzene				
Chlorodibromomethane				
Chloroethane				
Chloroform				
Chloromethane				
Dibromomethane				
Dichlorodifluoromethane				
Diisopropyl Ether				
Ethylbenzene				
Hexachlorobutadiene				

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W73

Parameter	07/01/16	07/10/17	07/10/18	07/11/19
Isopropylbenzene				
p-Isopropyltoluene				
Methyl tert-butyl ether				
Methylene chloride				
Naphthalene	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene				
Styrene				
Tetrachloroethene				
Tetrahydrofuran				
Toluene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl acetate				
Vinyl chloride				
Xylene, m & p-	<0.80	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19
NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W74

Parameter	07/01/16	07/10/17	07/10/18	07/11/19
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,1-Dichloropropene				
1,2,3-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene	<0.40	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
cis-1,2-Dichloroethene				
trans-1,2-Dichloroethene				
1,2-Dichloropropane				
1,3,5-Trimethylbenzene				
1,3-Dichlorobenzene				
cis-1,3-Dichloropropene				
1,3-Dichloropropane				
trans-1,3-Dichloropropene				
1,4-Dichlorobenzene				
2,2-Dichloropropane				
2-Butanone (MEK)				
2-Chlorethyl vinyl ether				
2-Chlorotoluene				
2-Hexanone				
4-Chlorotoluene				
4-Methyl-2-Pentanone (MIBK)				
Acetone				
Benzene				
Bromobenzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
Carbon disulfide				
Carbon tetrachloride				
Chlorobenzene				
Chlorodibromomethane				
Chloroethane				
Chloroform				
Chloromethane				
Dibromomethane				
Dichlorodifluoromethane				
Diisopropyl Ether				
Ethylbenzene				
Hexachlorobutadiene				

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - W74

Parameter	07/01/16	07/10/17	07/10/18	07/11/19
Isopropylbenzene				
p-Isopropyltoluene				
Methyl tert-butyl ether				
Methylene chloride				
Naphthalene	<0.90	<0.90	<0.90	<0.90
n-Propylbenzene				
Styrene				
Tetrachloroethene				
Tetrahydrofuran				
Toluene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl acetate				
Vinyl chloride				
Xylene, m & p-	<0.80	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:
All Units are in ug/L
Bold values indicate detections
A = Analyte averaged calibration criteria within acceptable limits
B = Analyte detected in associated Method Blank
M = Matrix spike or matrix spike duplicate outside acceptance limts.
J = Estimated Value
Q = Lab Control Sample outside acceptance limits
***** = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW5

Parameter	07/11/16	07/20/17	07/16/18	07/16/19
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,1-Dichloropropene				
1,2,3-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene	**0.50**	<0.40	<0.40	<0.40
1,2-Dibromo-3-chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
cis-1,2-Dichloroethene				
trans-1,2-Dichloroethene				
1,2-Dichloropropane				
1,3,5-Trimethylbenzene				
1,3-Dichlorobenzene				
cis-1,3-Dichloropropene				
1,3-Dichloropropane				
trans-1,3-Dichloropropene				
1,4-Dichlorobenzene				
2,2-Dichloropropane				
2-Butanone (MEK)				
2-Chlorethyl vinyl ether				
2-Chlorotoluene				
2-Hexanone				
4-Chlorotoluene				
4-Methyl-2-Pentanone (MIBK)				
Acetone				
Benzene				
Bromobenzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
Carbon disulfide				
Carbon tetrachloride				
Chlorobenzene				
Chlorodibromomethane				
Chloroethane				
Chloroform				
Chloromethane				
Dibromomethane				
Dichlorodifluoromethane				
Diisopropyl Ether				
Ethylbenzene				
Hexachlorobutadiene				
Isopropylbenzene				

Volatile Organic Compounds - Historical Data
WAULECO, INC - Wausau Facility
Well - DFOMW5

Parameter	07/11/16	07/20/17	07/16/18	07/16/19
p-Isopropyltoluene				
Methyl tert-butyl ether				
Methylene chloride				
Naphthalene	**3.3**	**3**	**5.8**	**0.97**
n-Propylbenzene				
Styrene				
Tetrachloroethene				
Tetrahydrofuran				
Toluene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl acetate				
Vinyl chloride				
Xylene, m & p-	<0.80	<0.80	<0.80	<0.80
Xylene, o-	**0.53**	<0.40	<0.40	<0.40
Xylenes, Total	**0.53**	<1.20	<1.20	<1.20

Prepared By: T. Dushek, 8/20/19
Checked by: A. Voit, 11/27/19

NOTES:

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limts.

J = Estimated Value

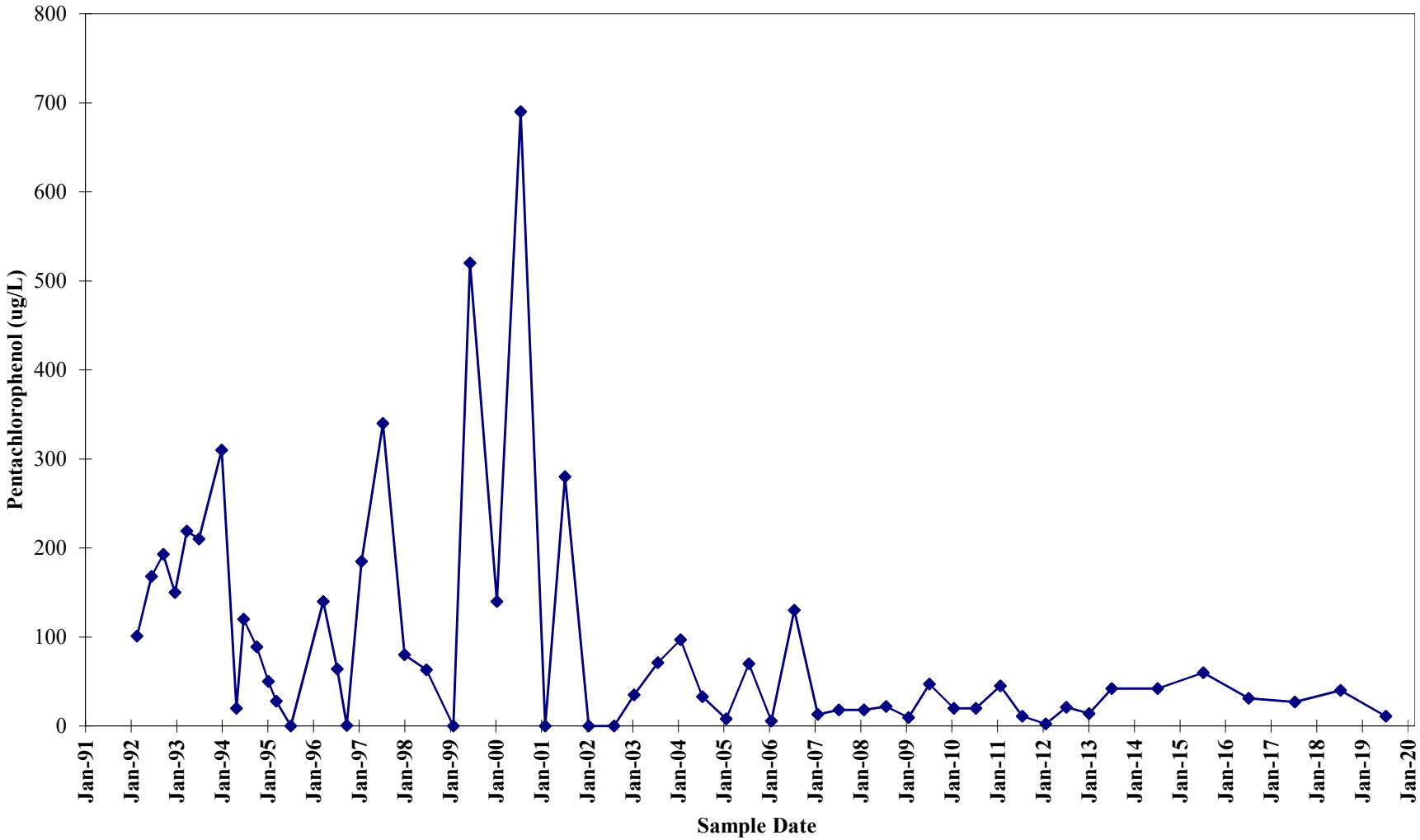
Q = Lab Control Sample outside acceptance limits

***** = Suspected methylene chloride laboratory contamination.

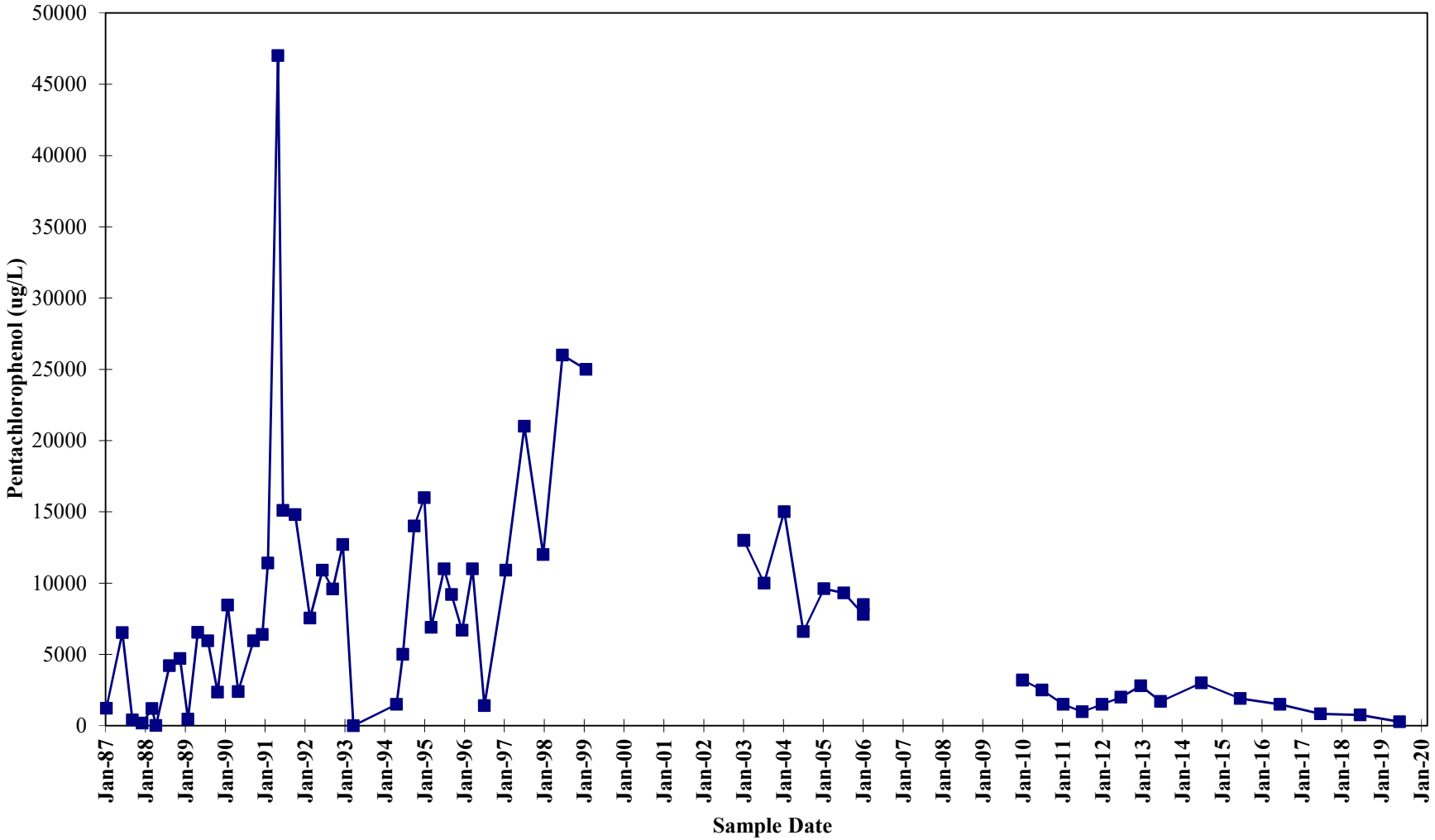
APPENDIX C

HISTORICAL PCP ANALYSIS RESULTS

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W01A

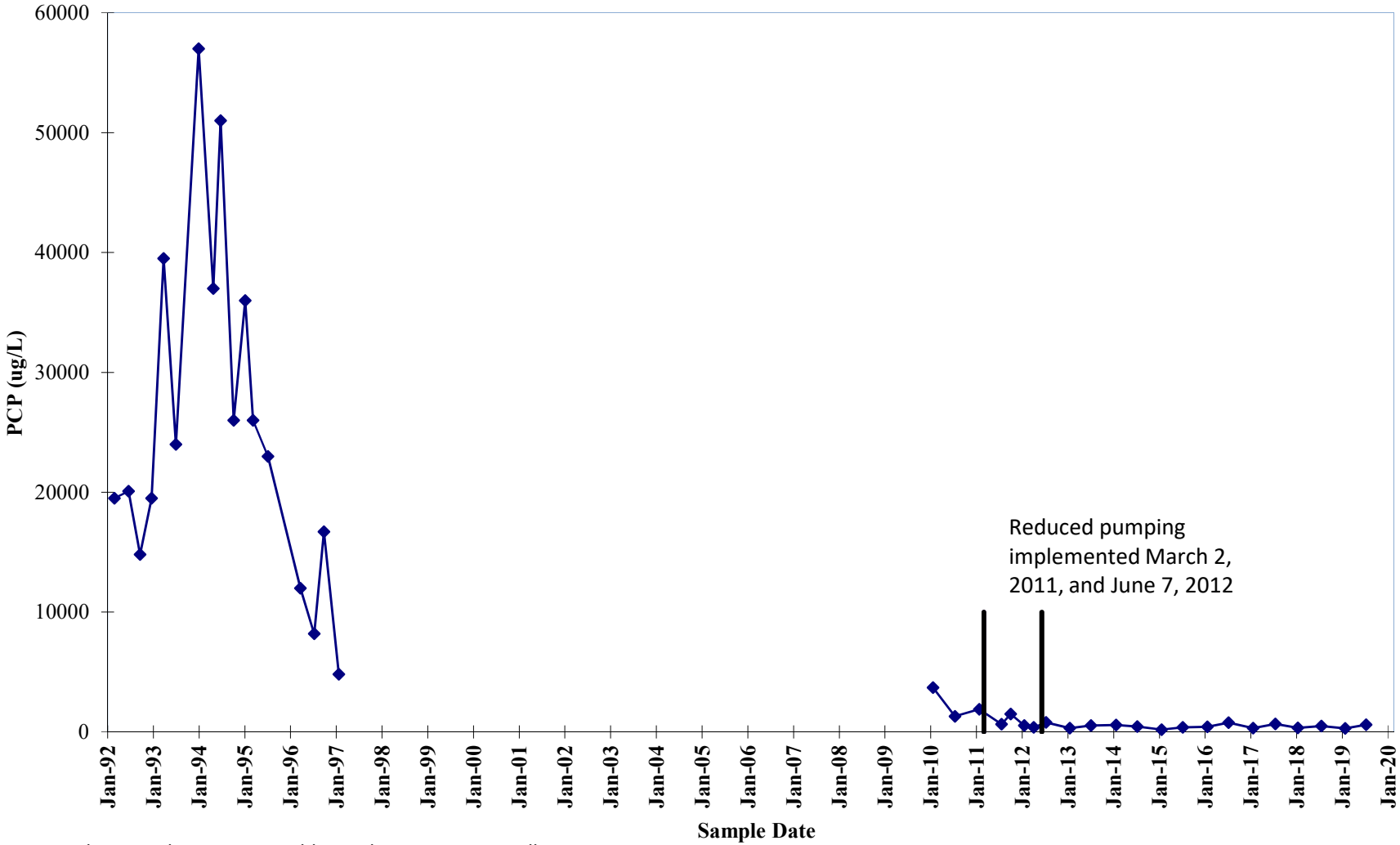


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W02



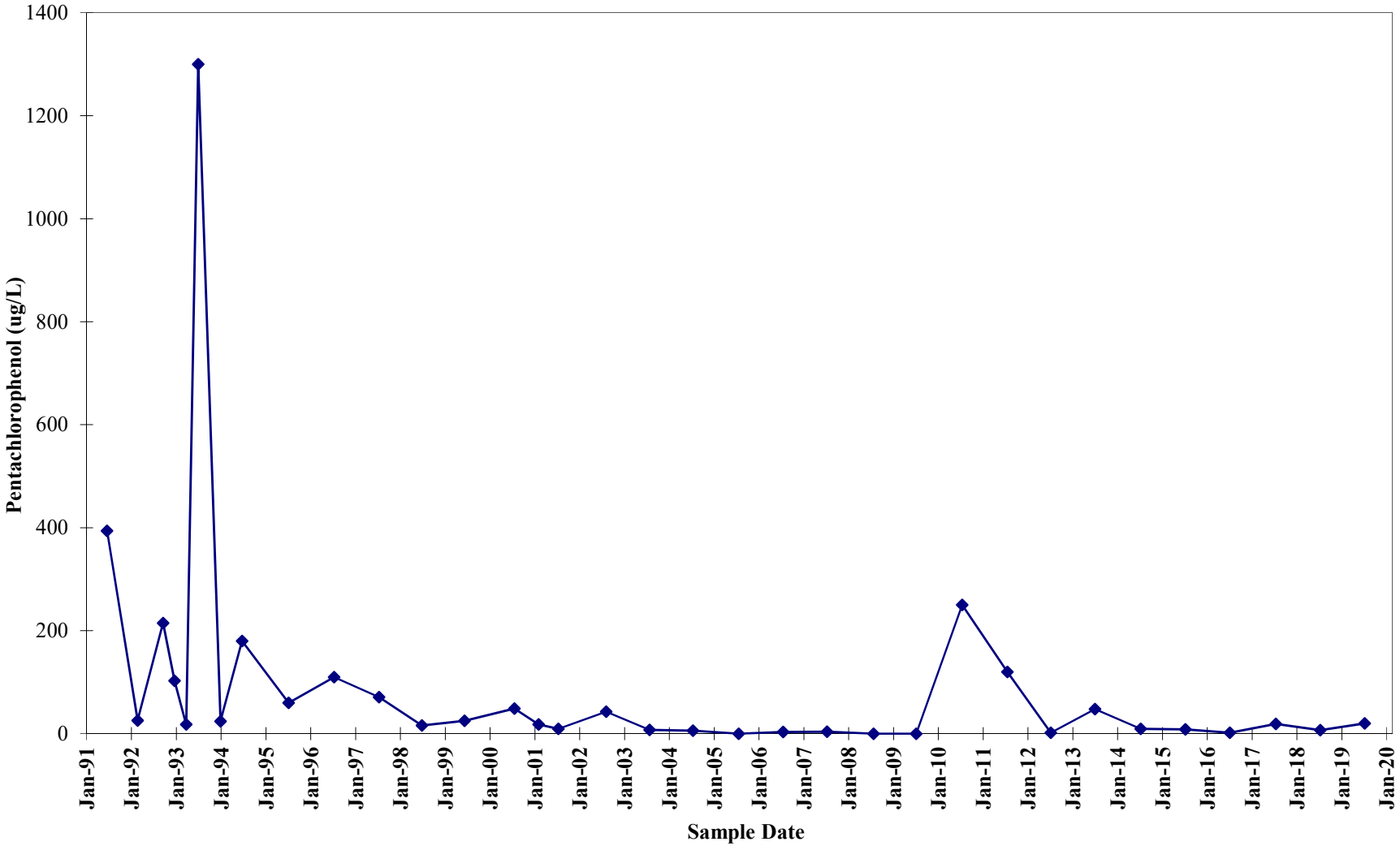
PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W03A

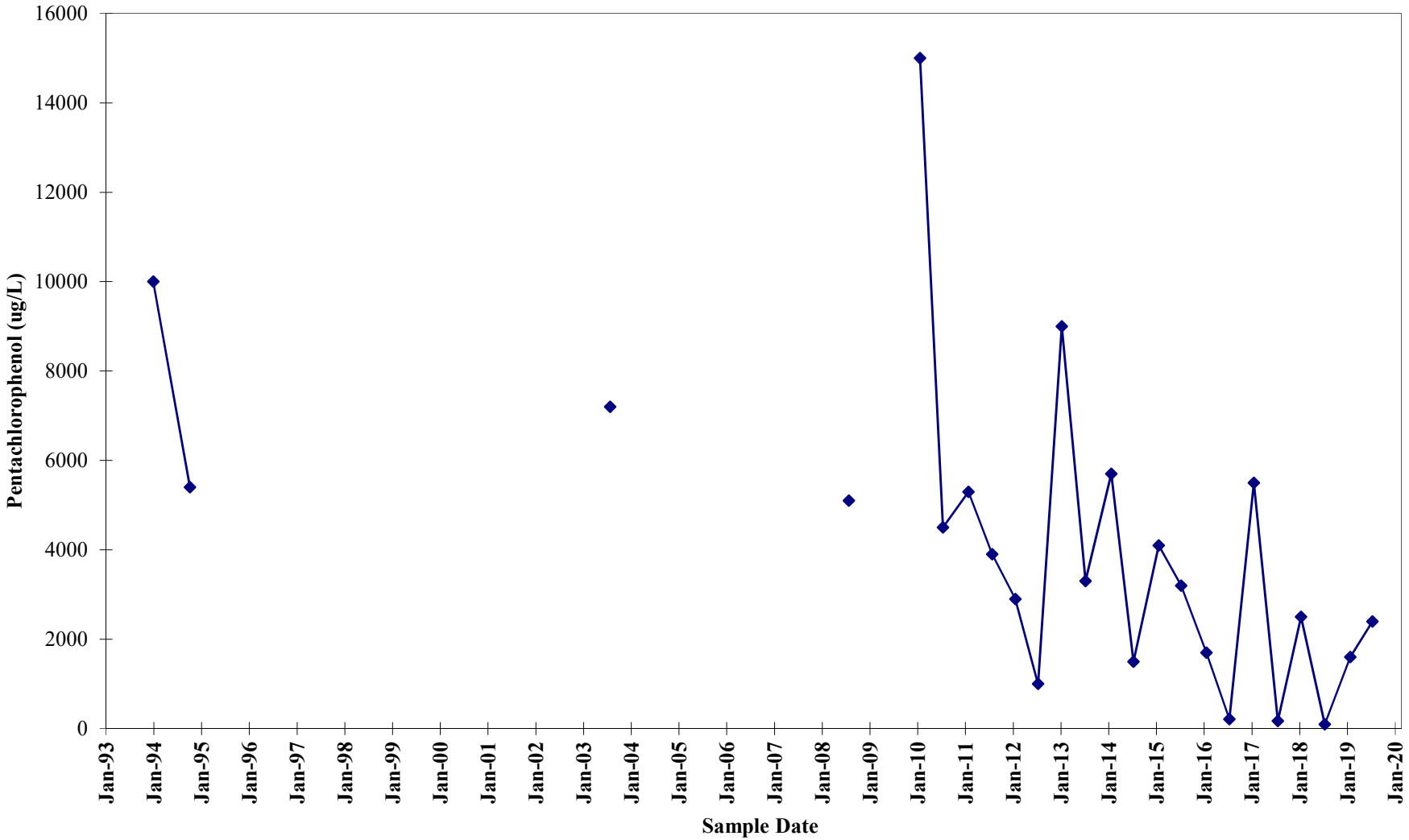


PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W03B

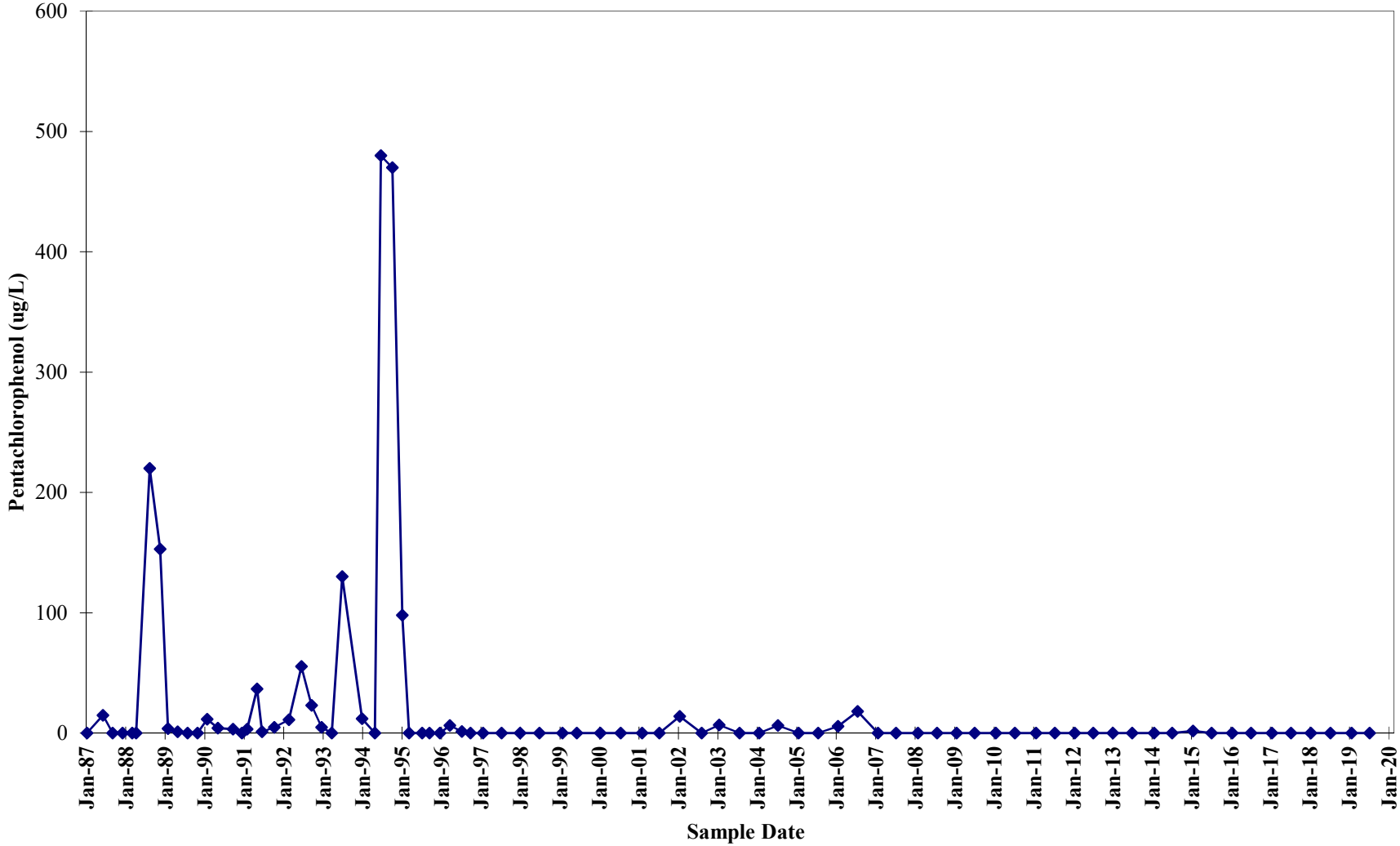


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W06R

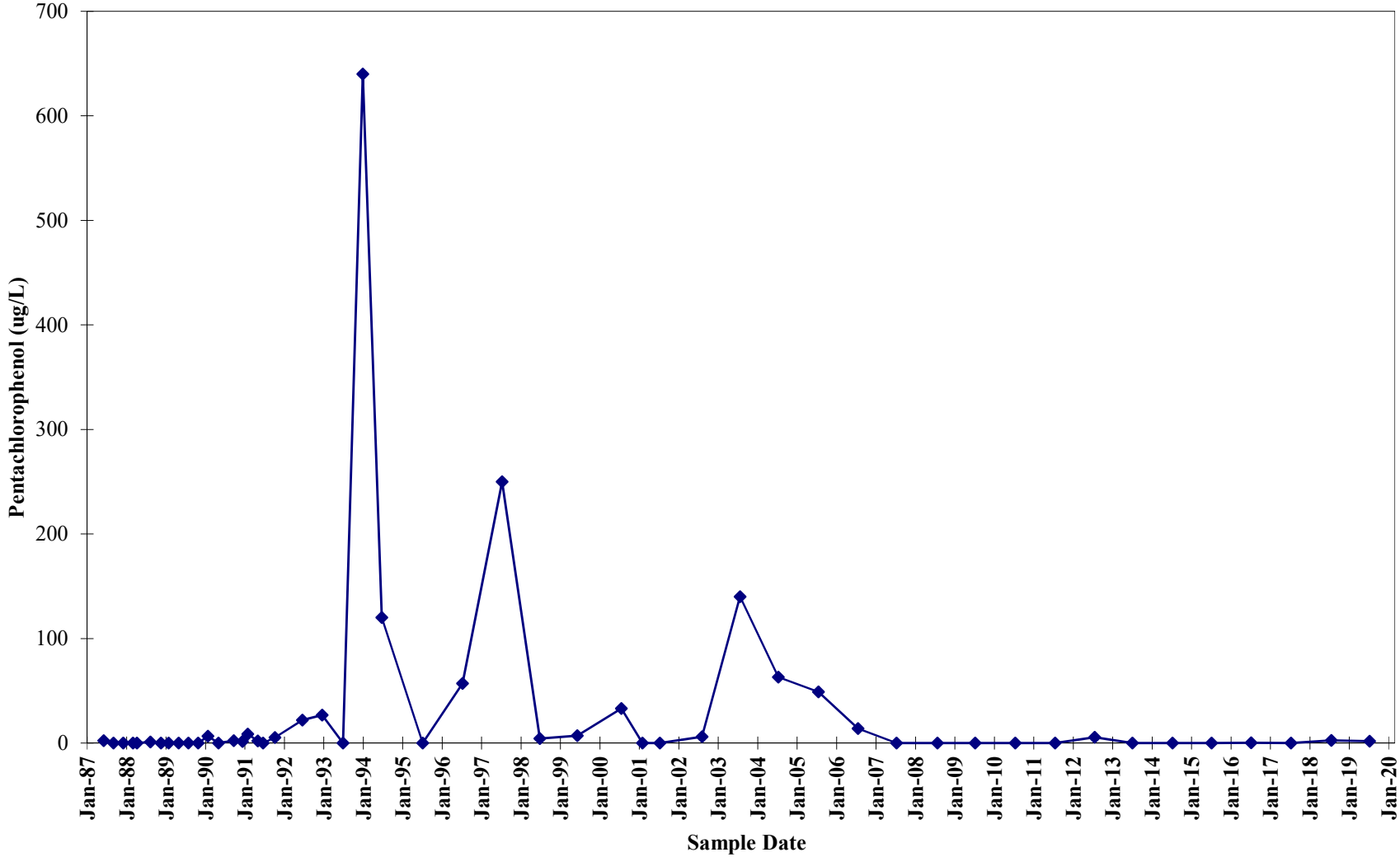


PCP data gap due to measurable product present in well.

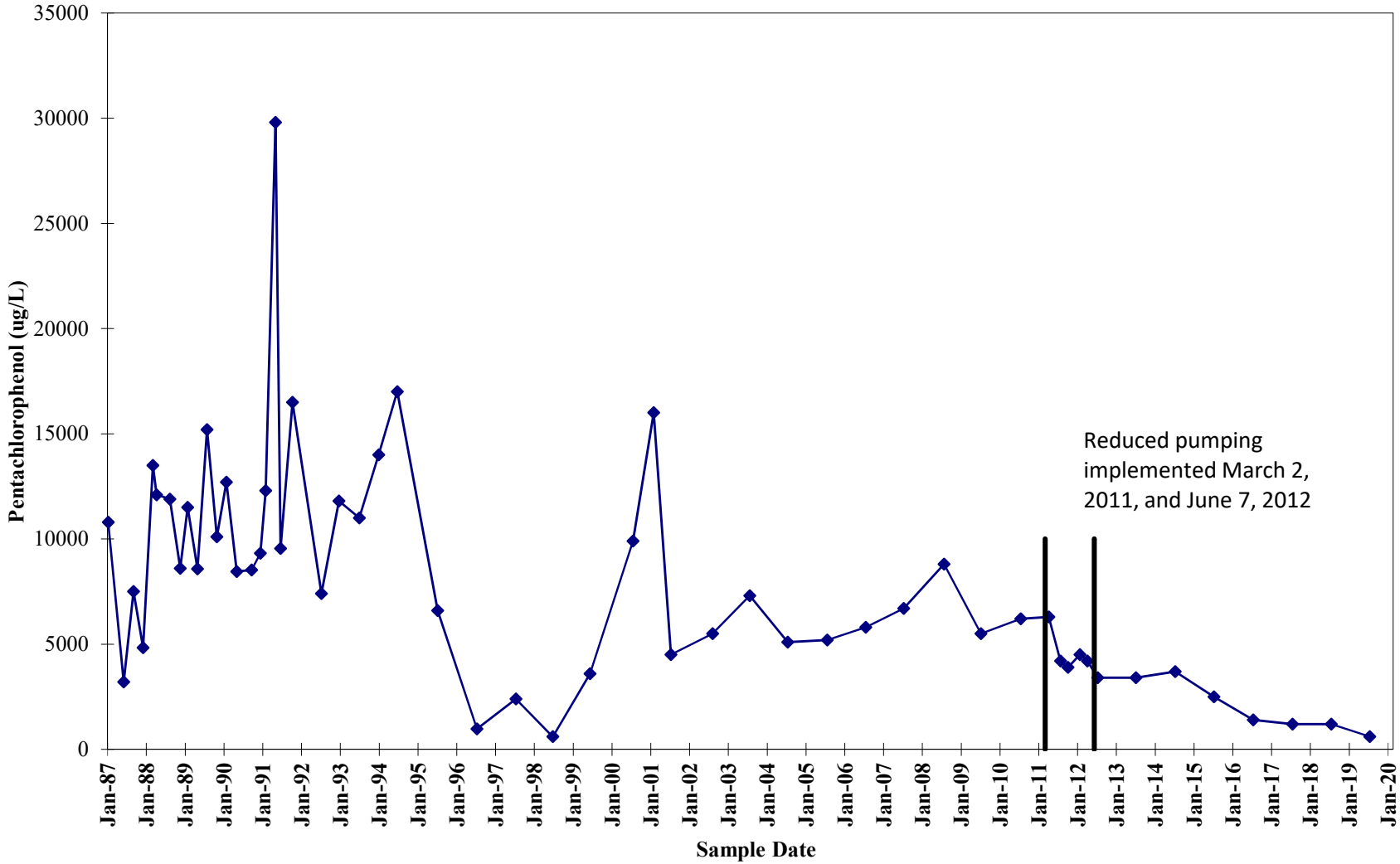
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W08



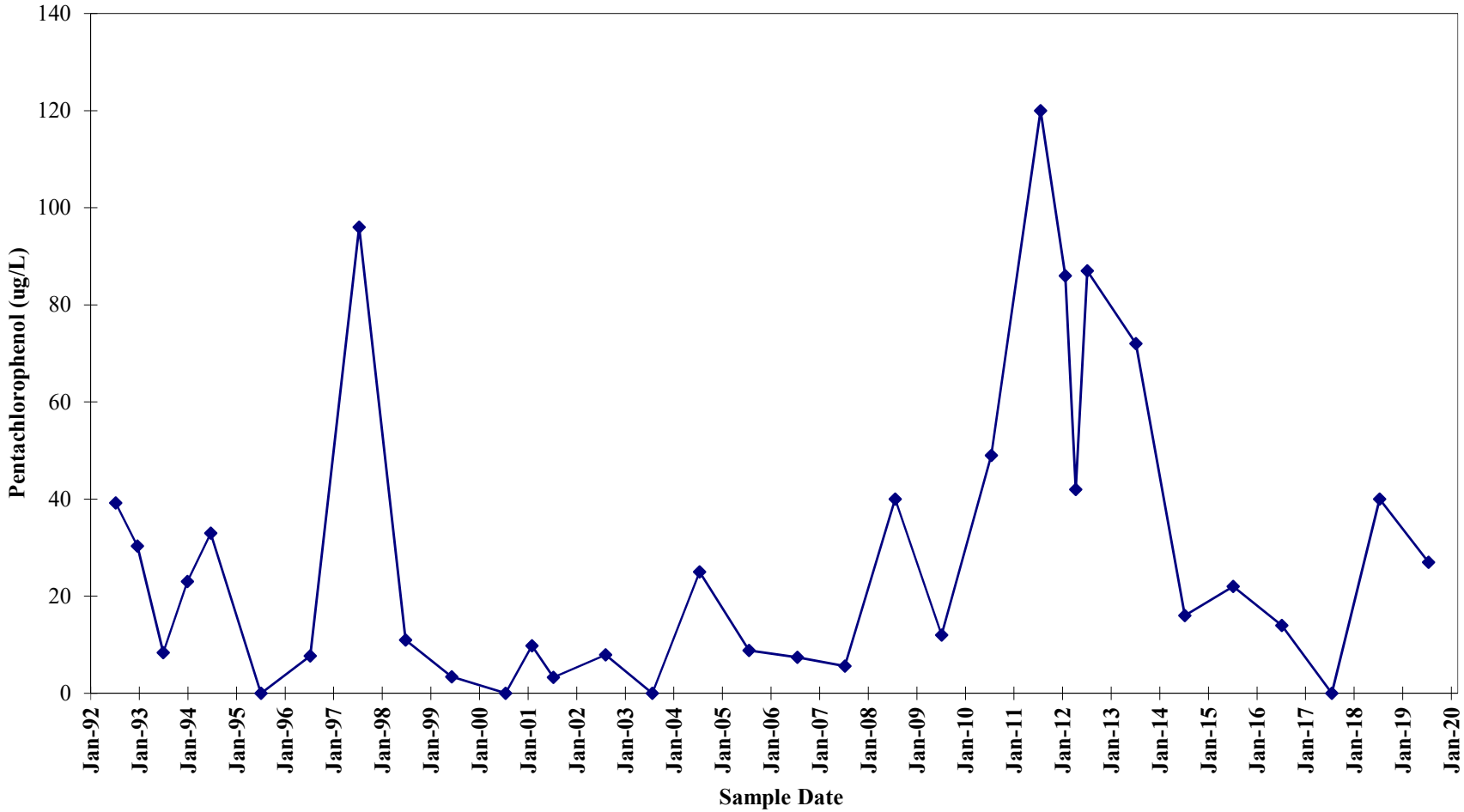
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W09



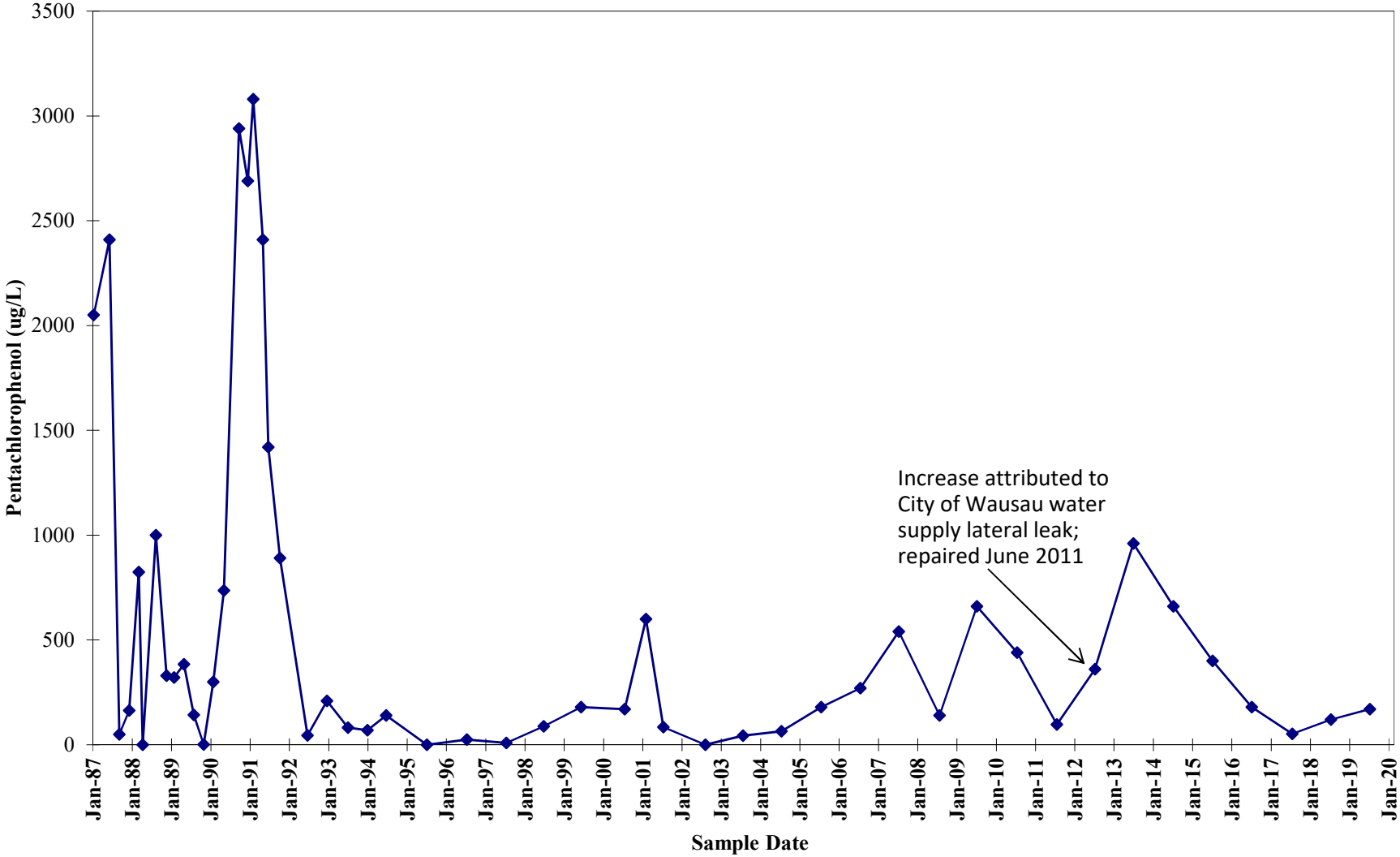
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W10A



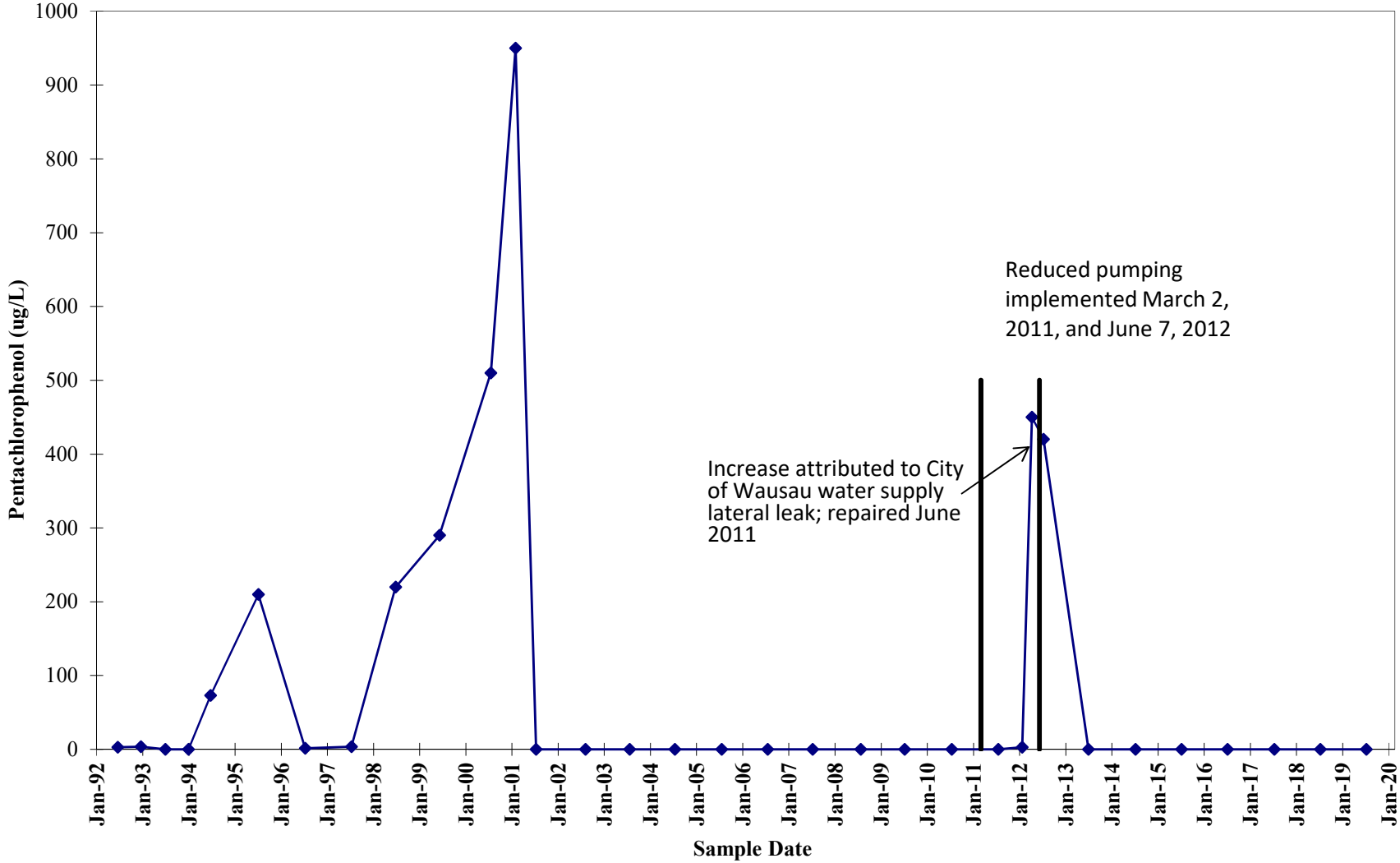
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W10B



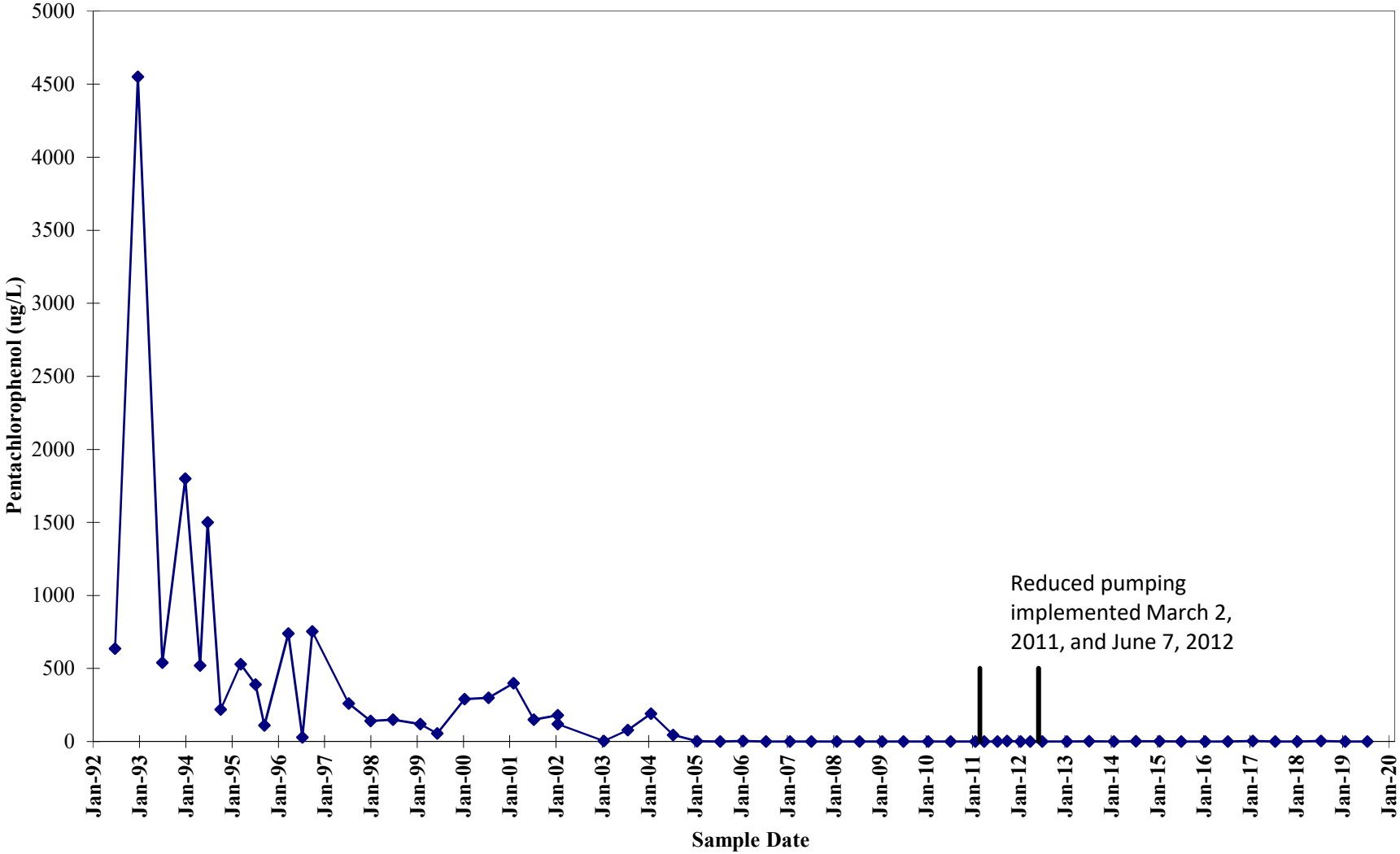
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W11



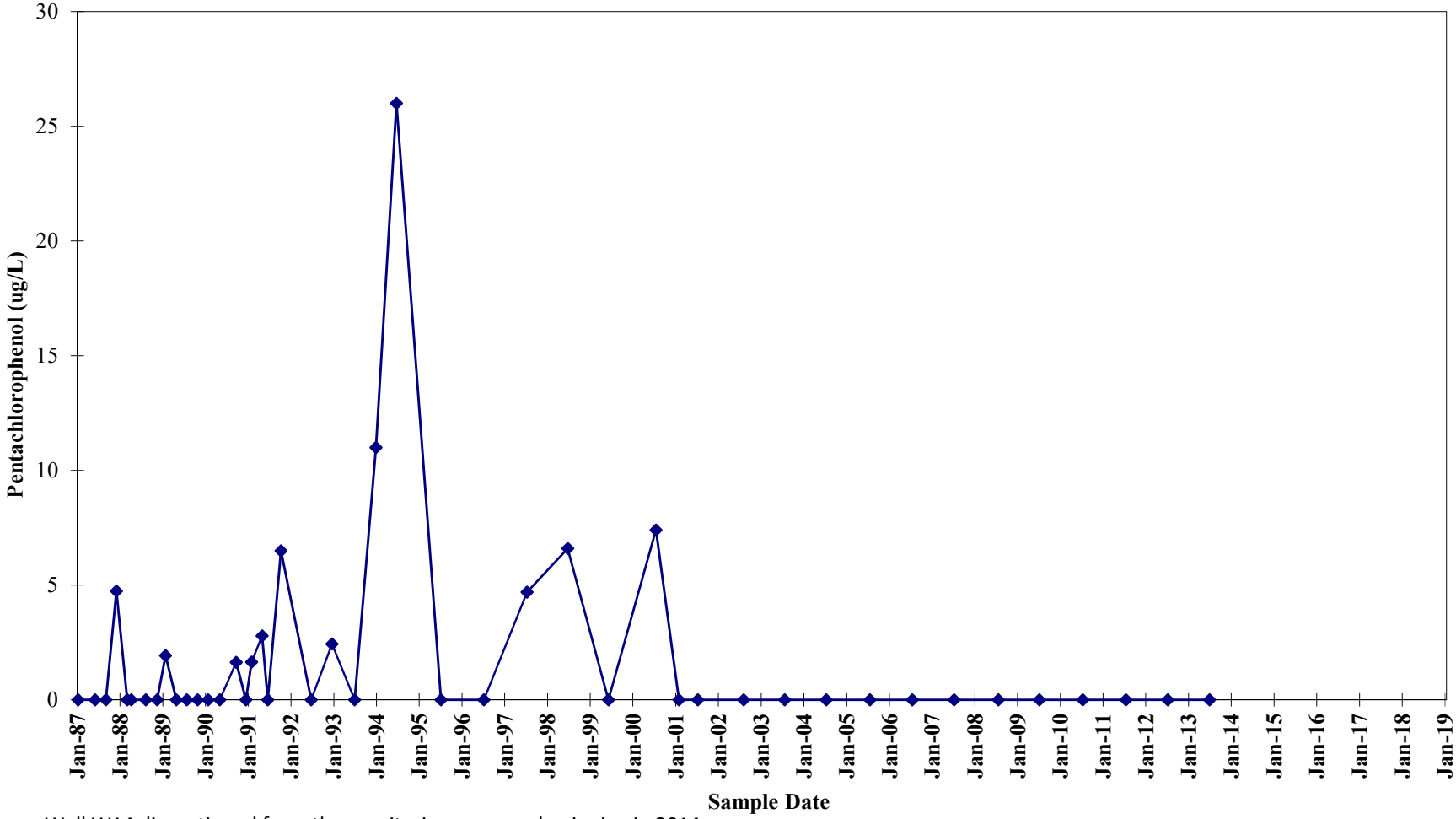
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W12



Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W13

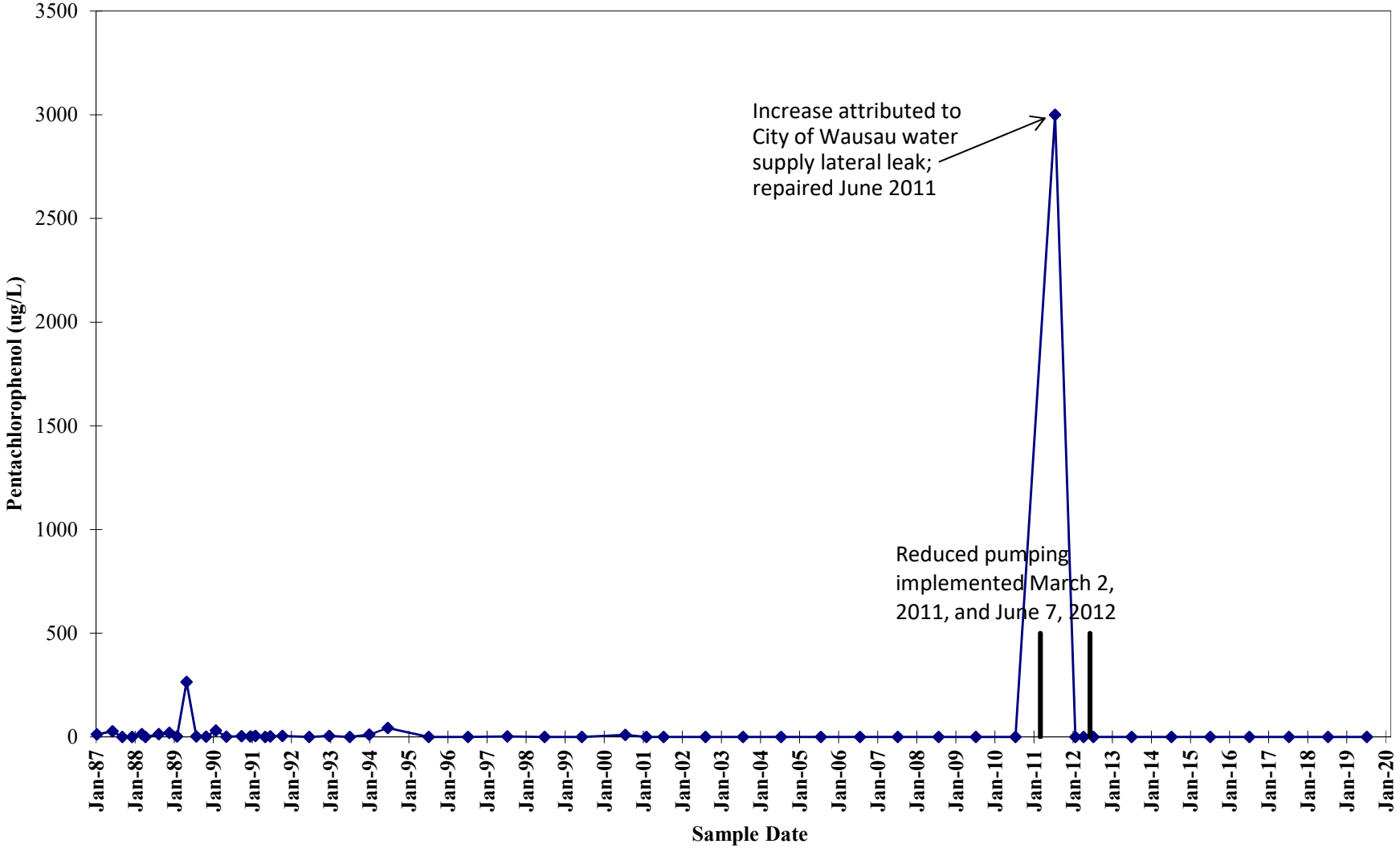


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W14

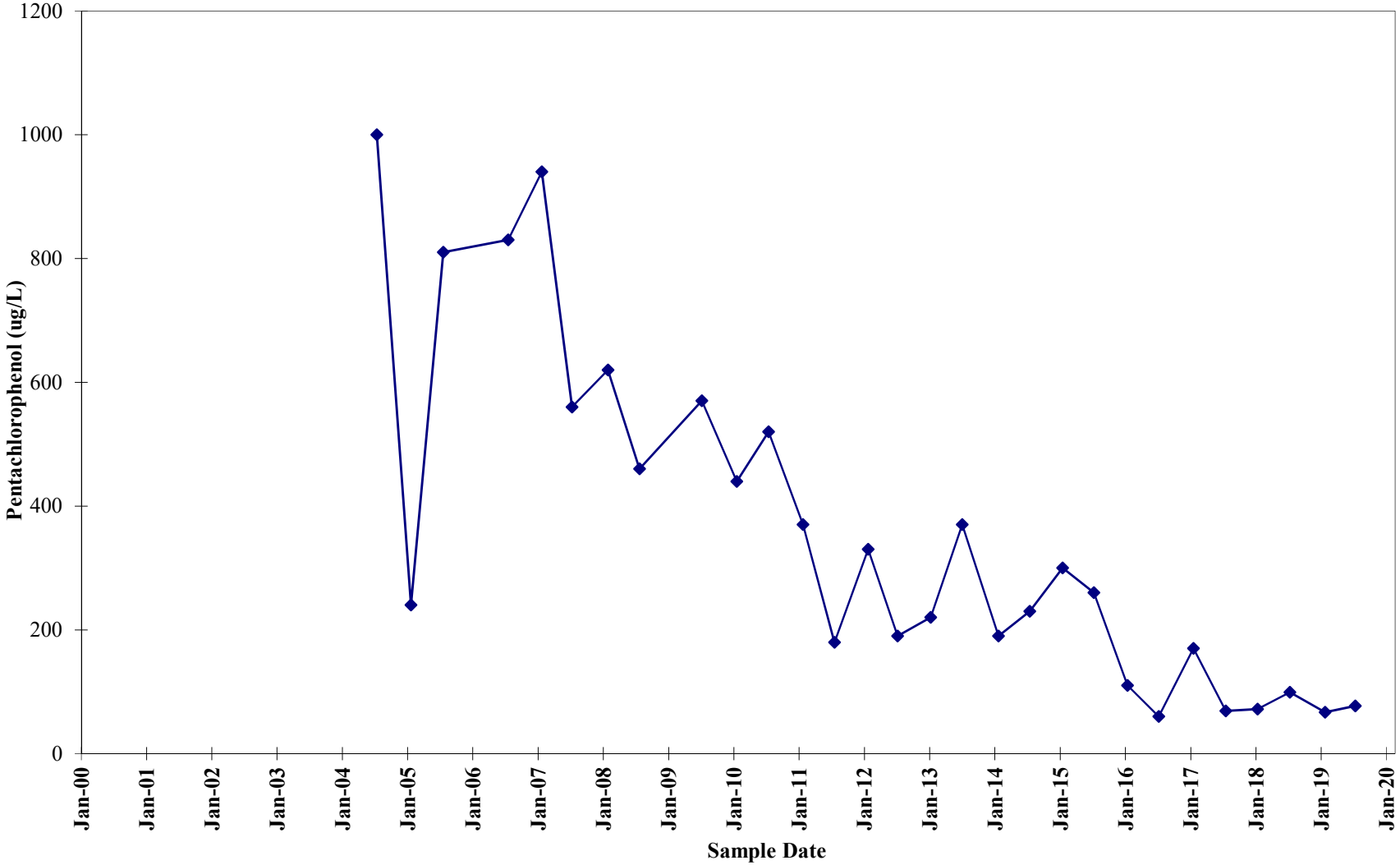


Well W14 discontinued from the monitoring program beginning in 2014.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W16

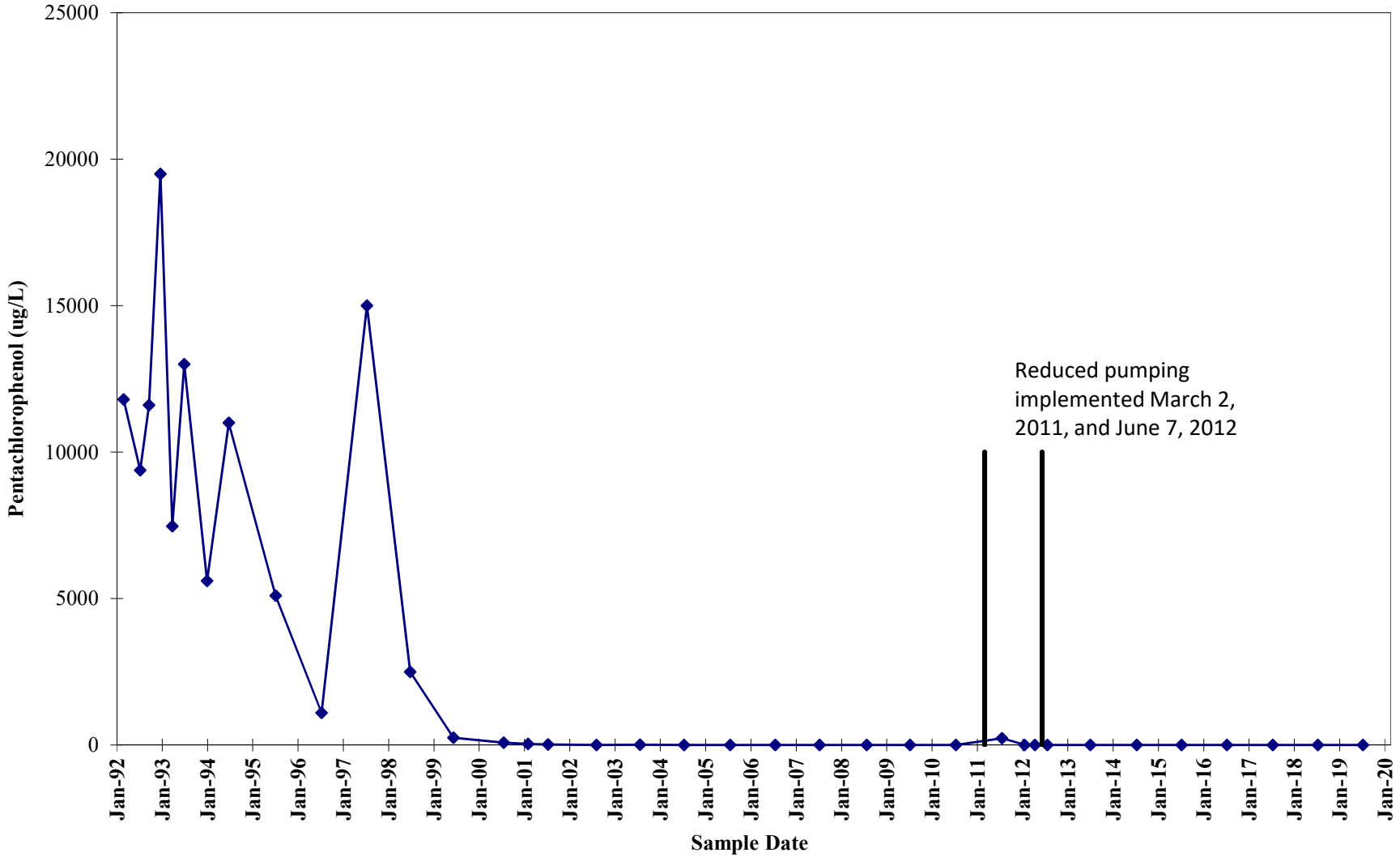


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W17

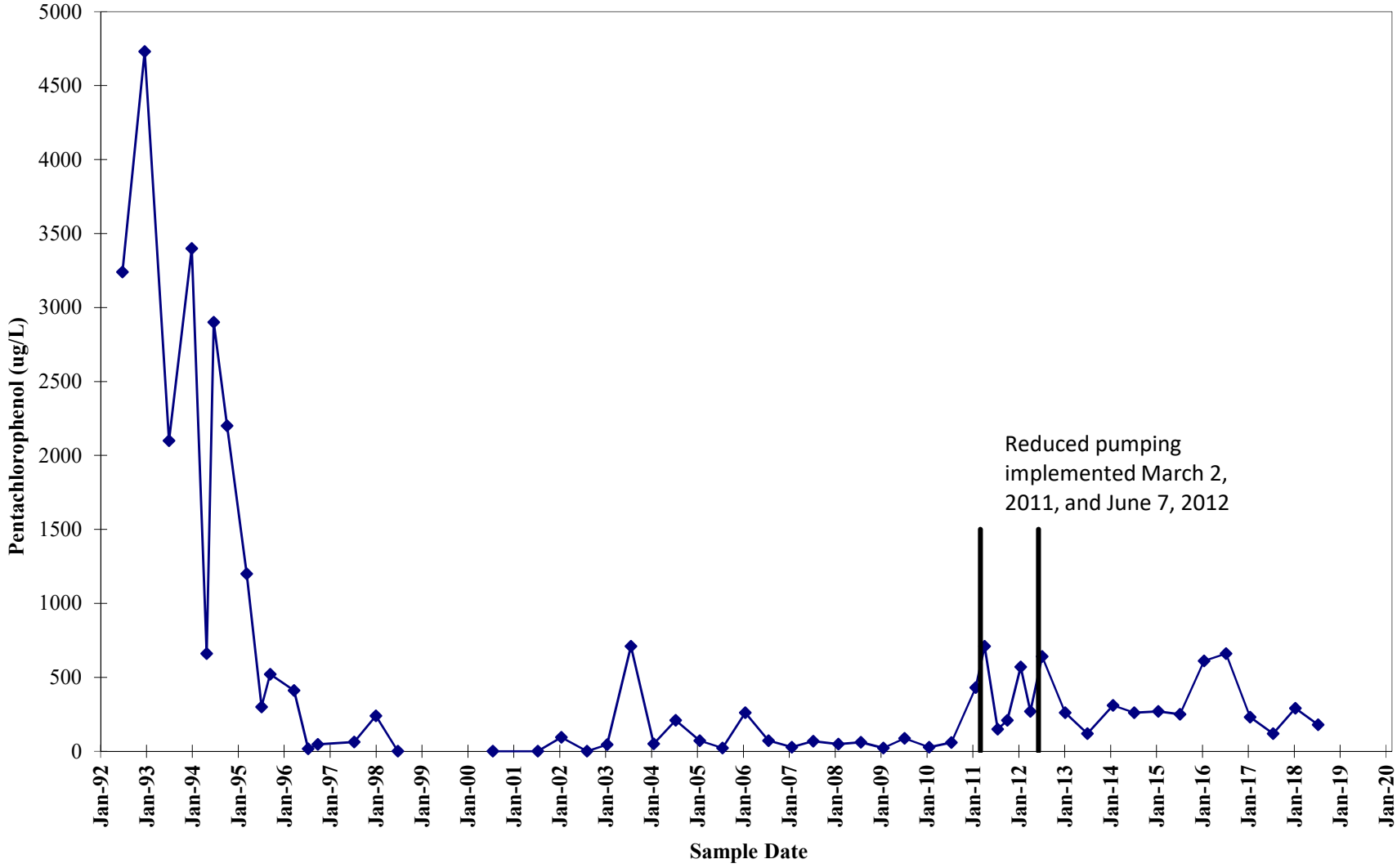


PCP data gap due to measurable product in well.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W18

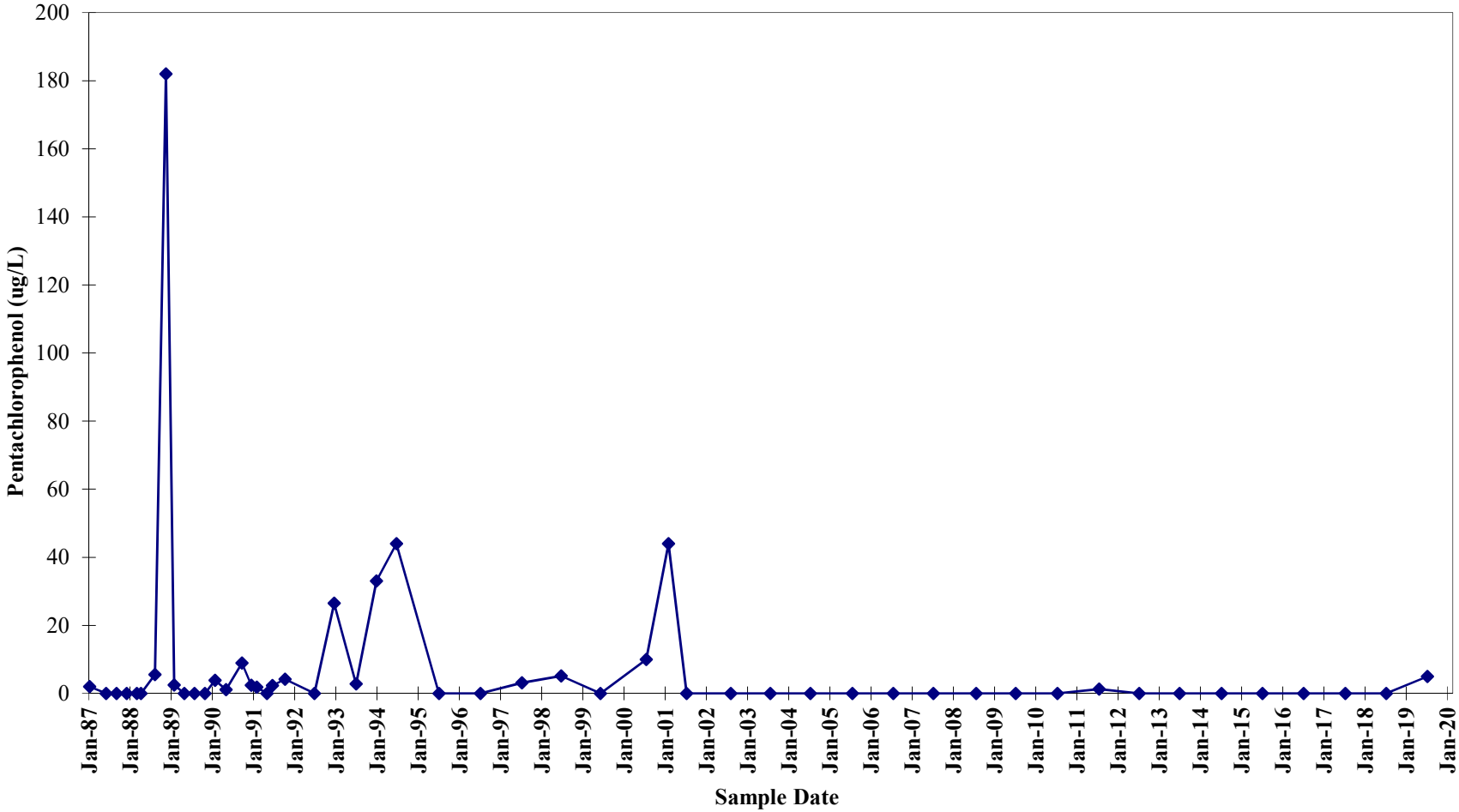


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W19

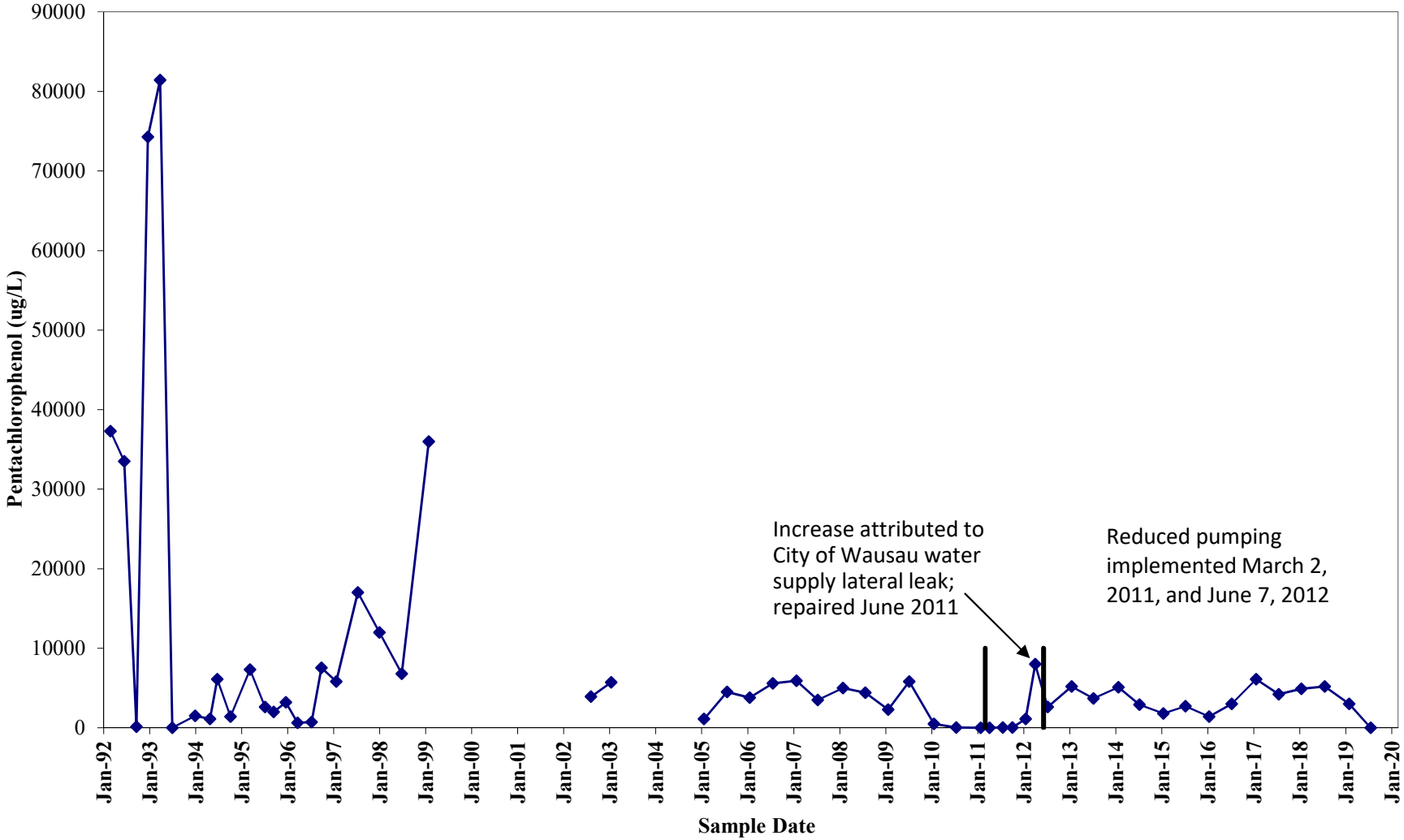


Well W19 was abandoned on March 28, 2019 to facilitate the Thomas Street reconstruction.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W21

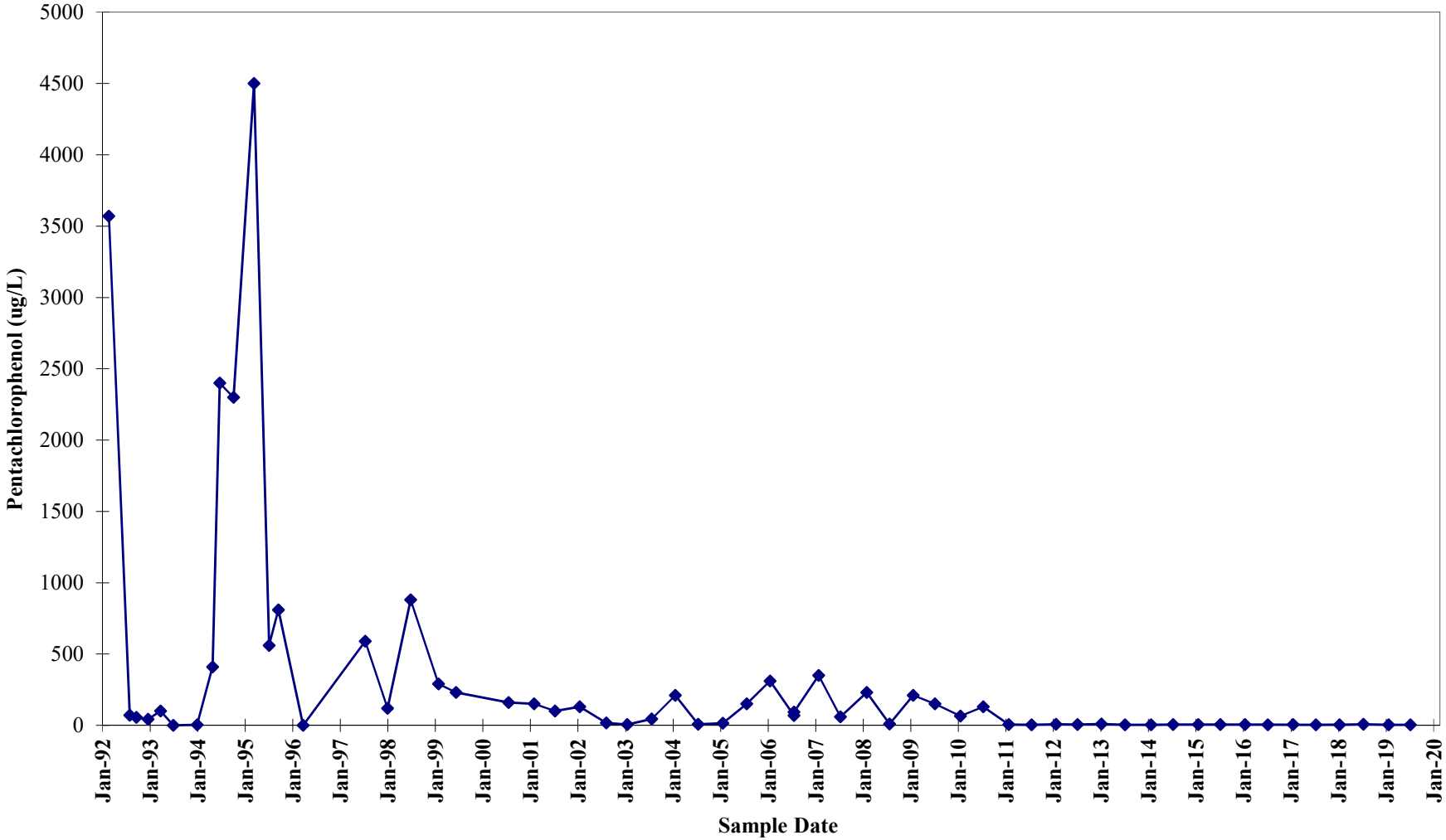


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W22

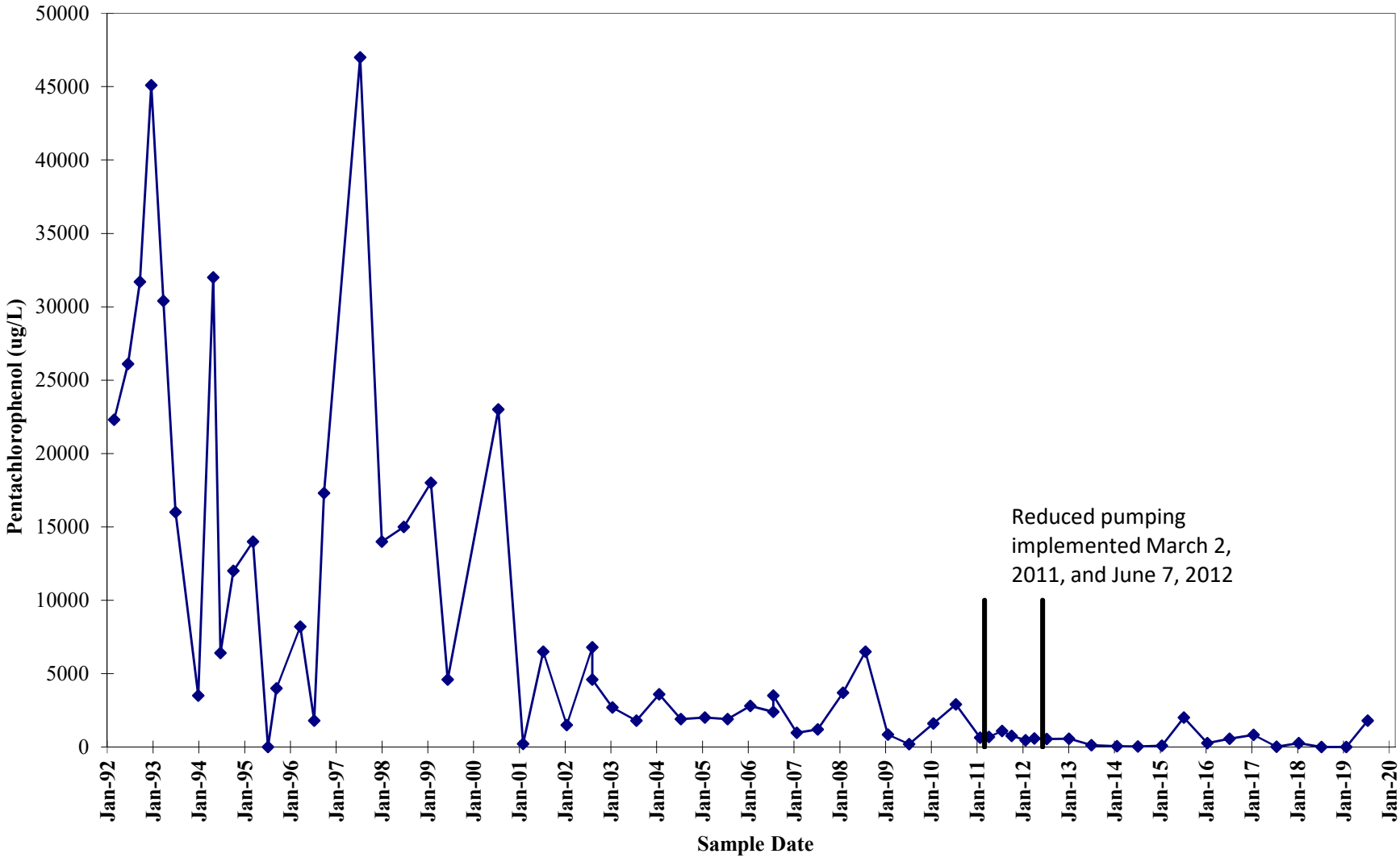


PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W25

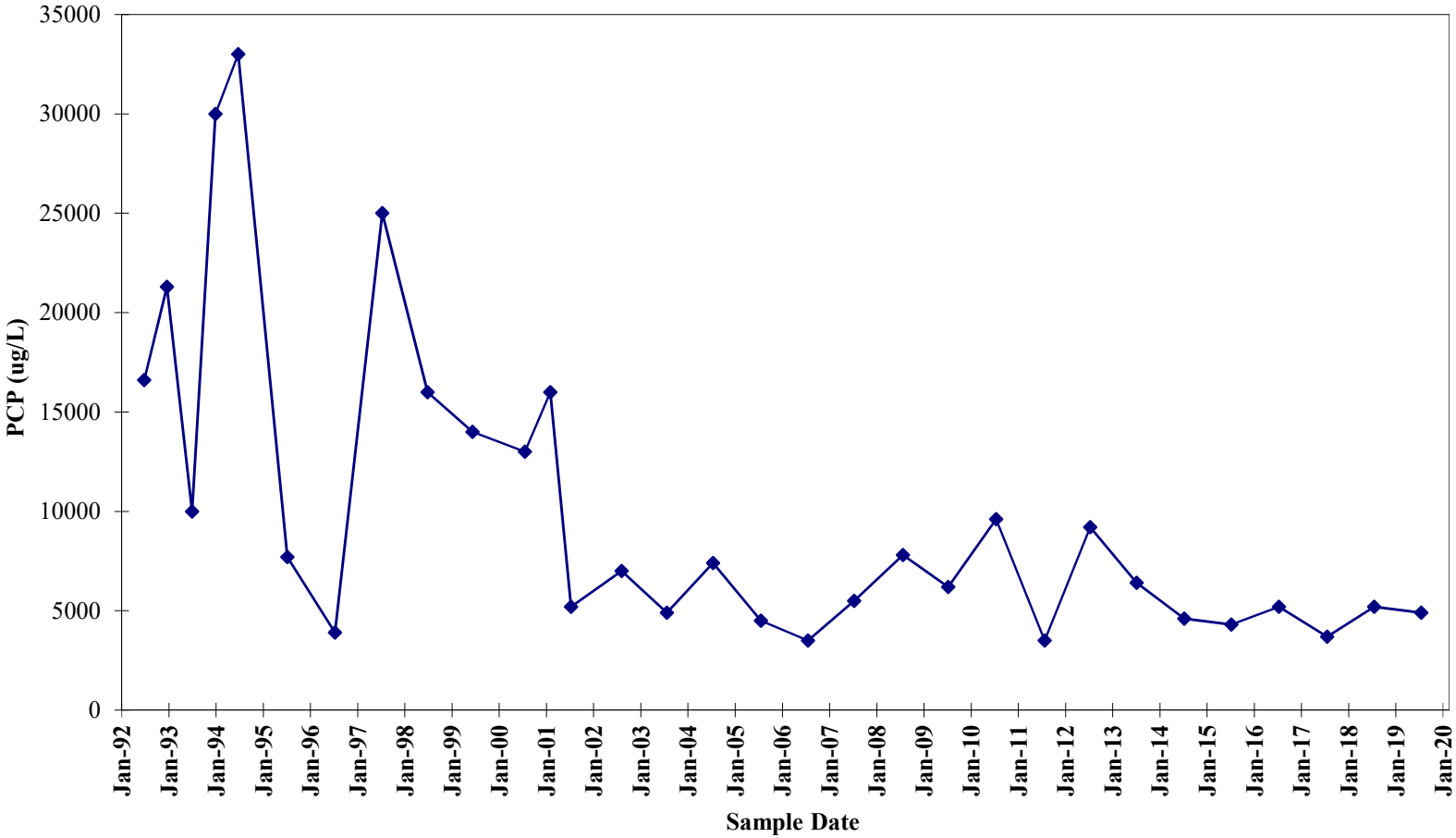


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W26/W26R

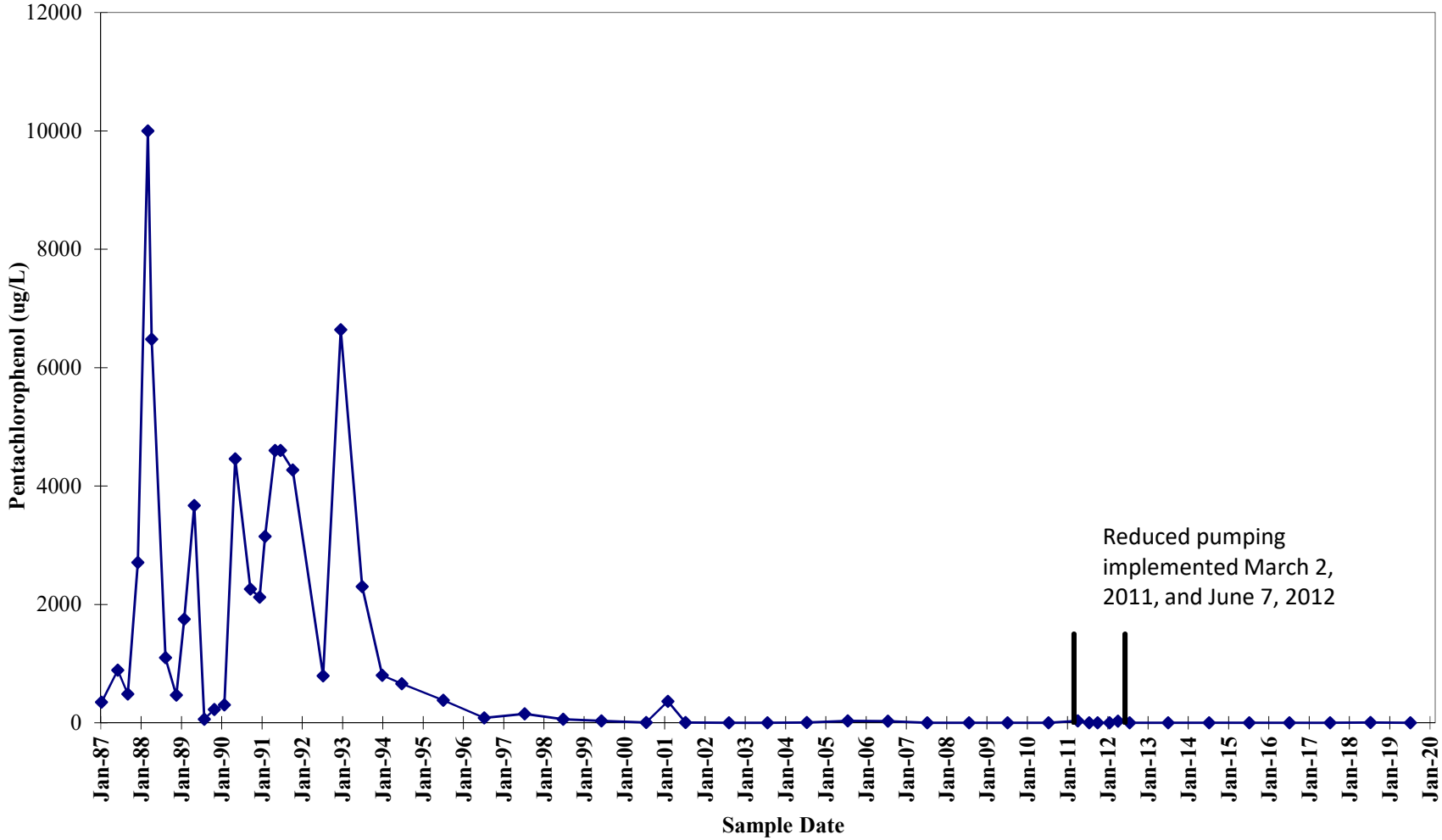


Well W26 was abandoned on March 28, 2019 to facilitate the Thomas Street reconstruction.
Replacement well W26R was installed on June 24, 2019.

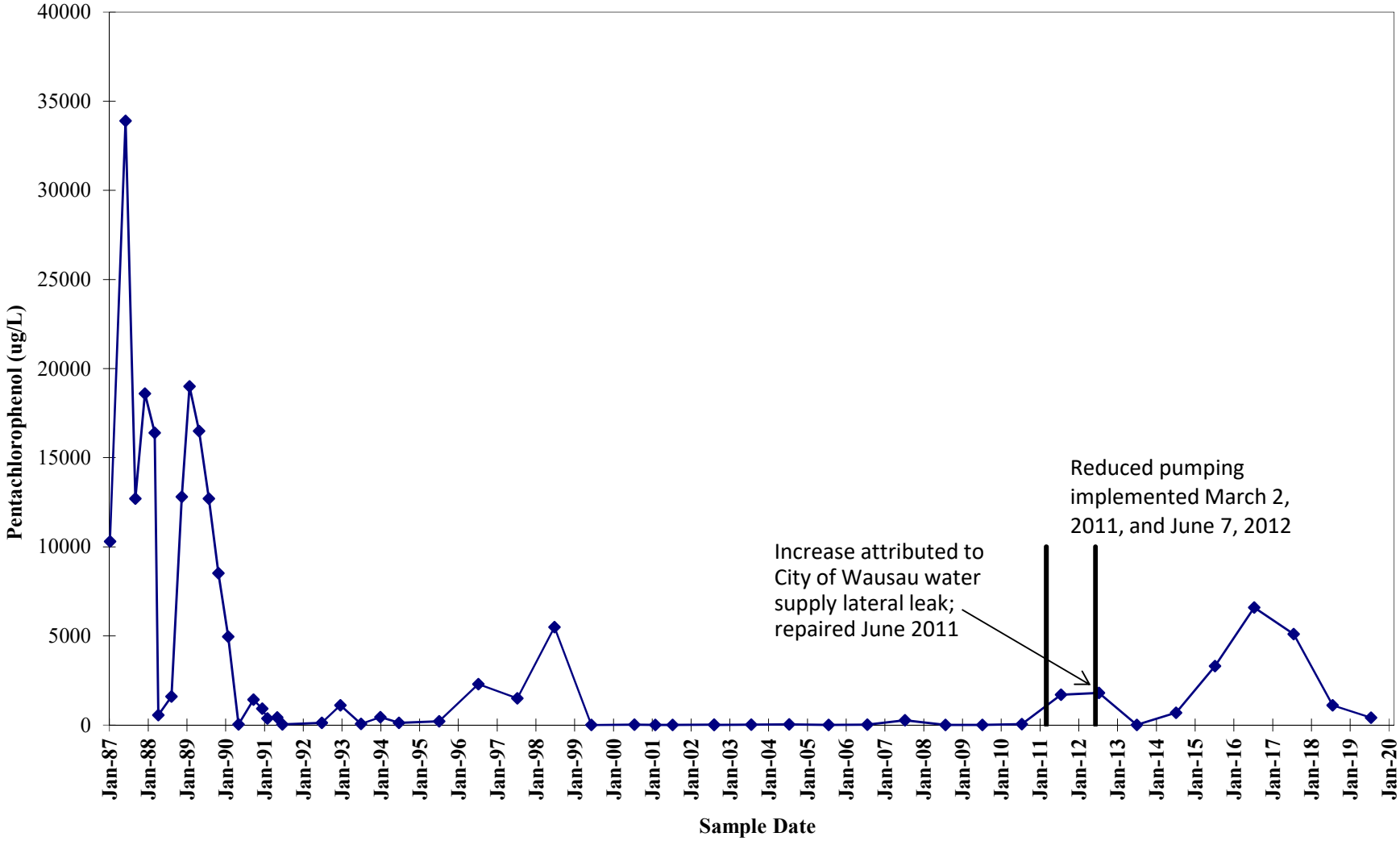
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W27



Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W28

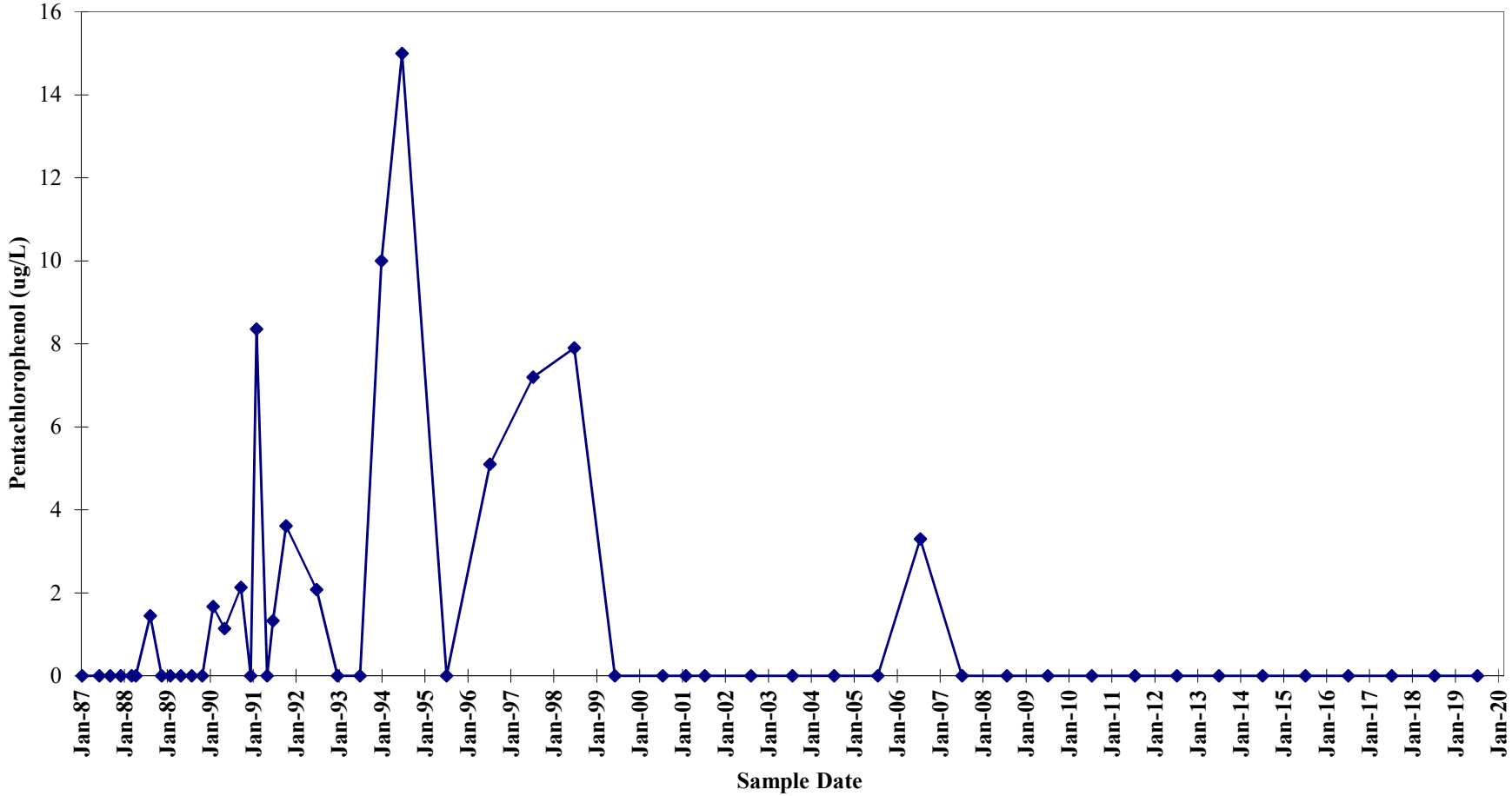


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W29/W29R

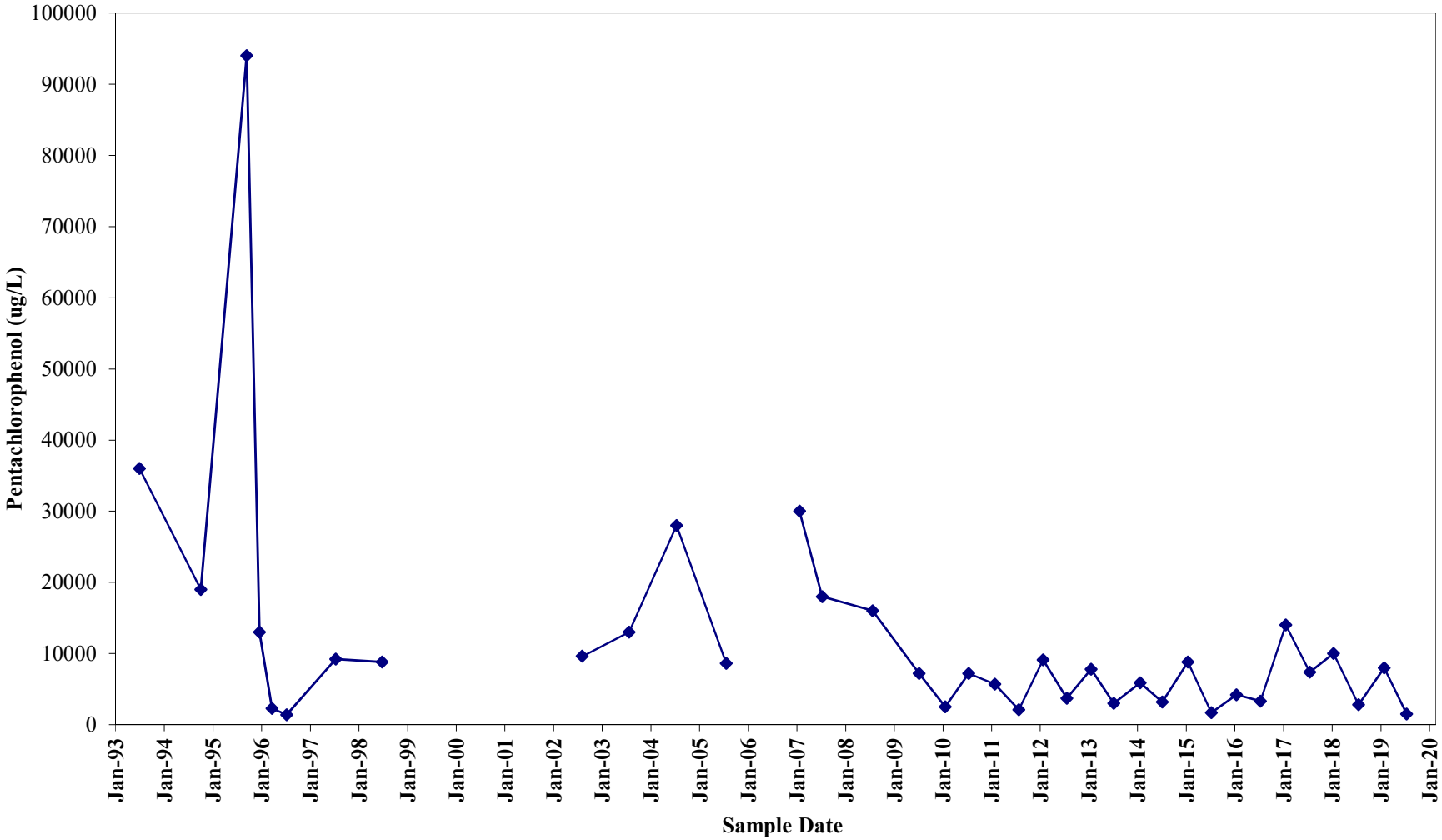


Well W29 was abandoned on March 28, 2019 to facilitate the Thomas Street reconstruction.
Replacement well W29R was installed on June 24, 2019.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W32

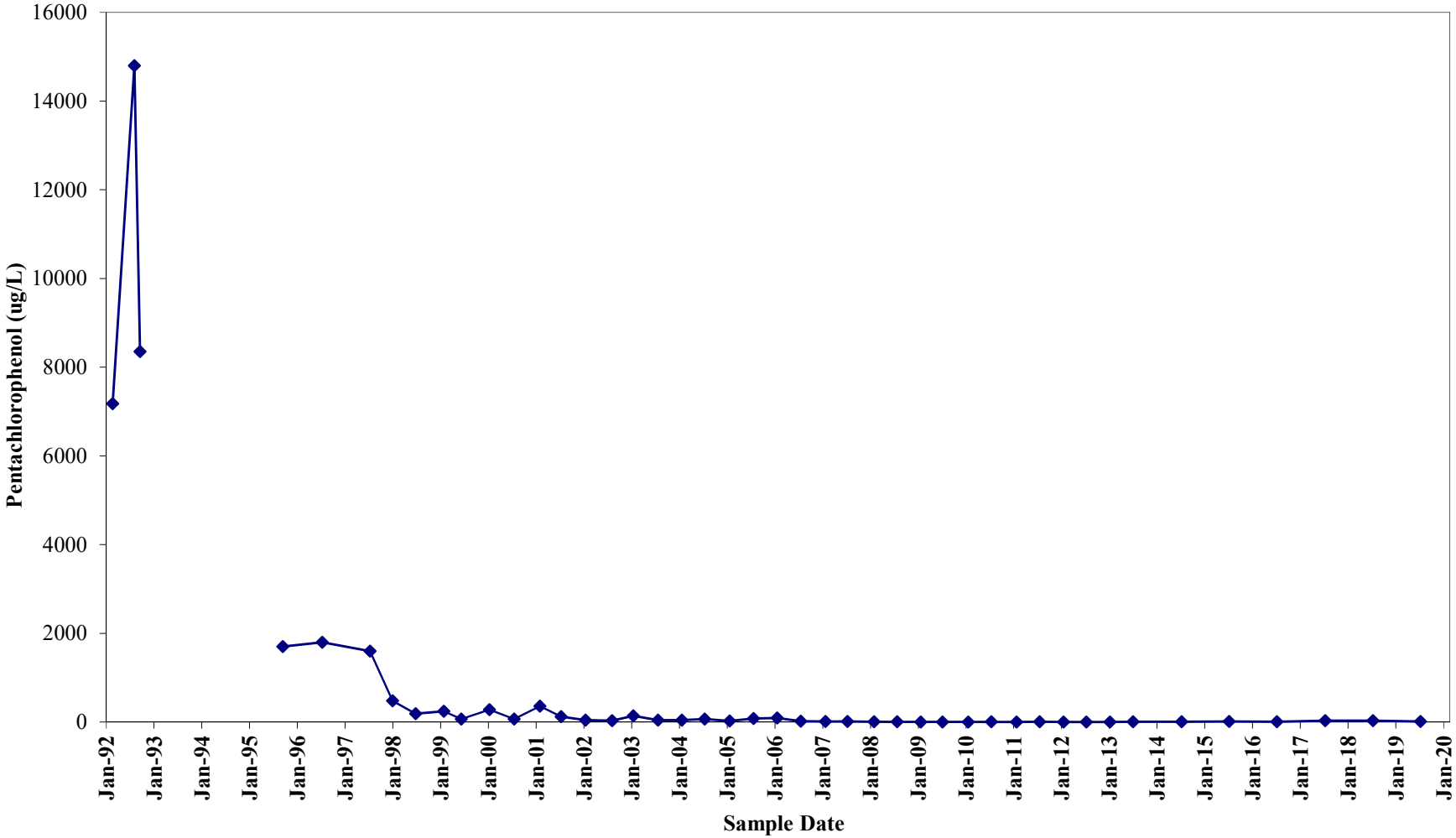


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W33



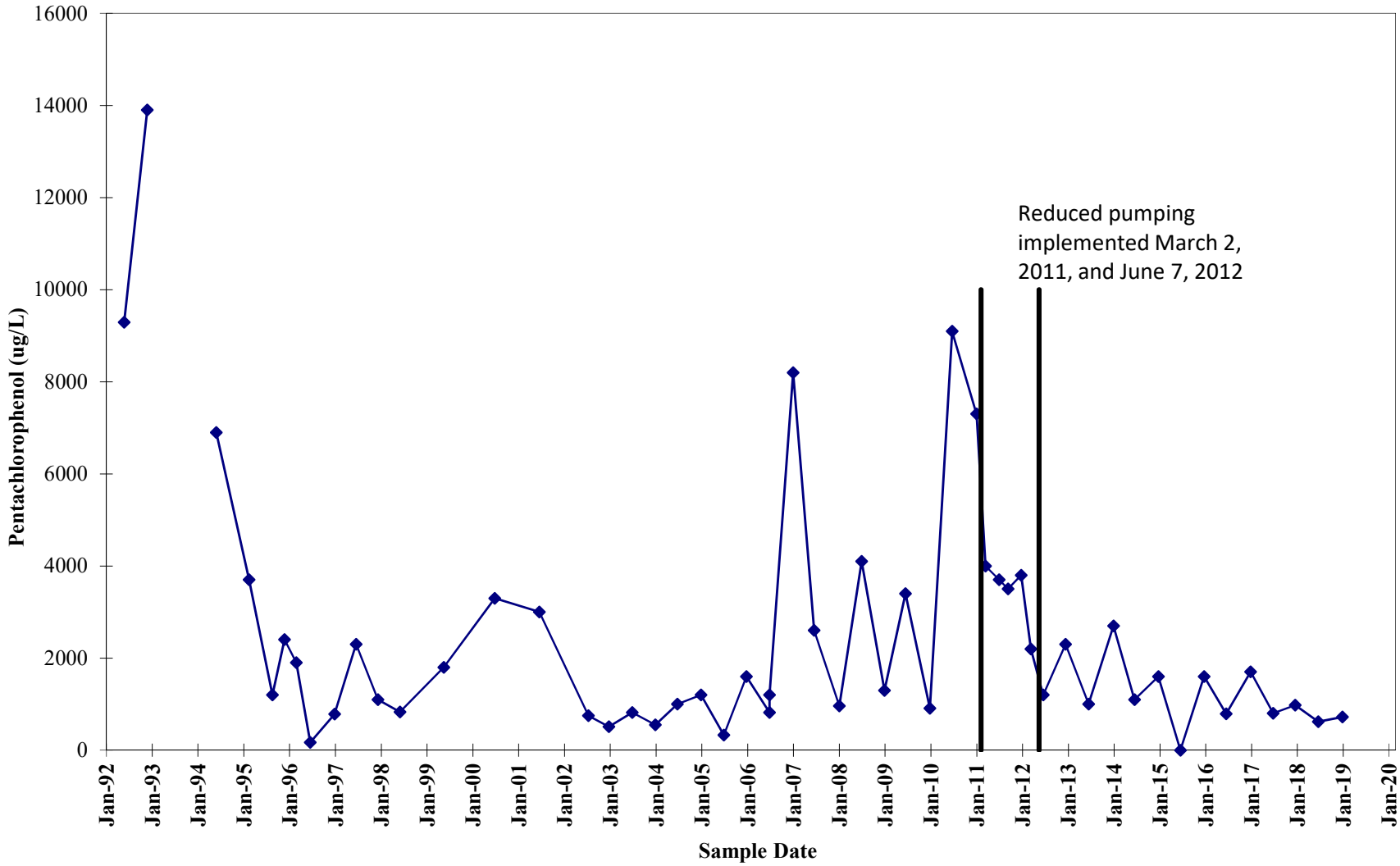
PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W36



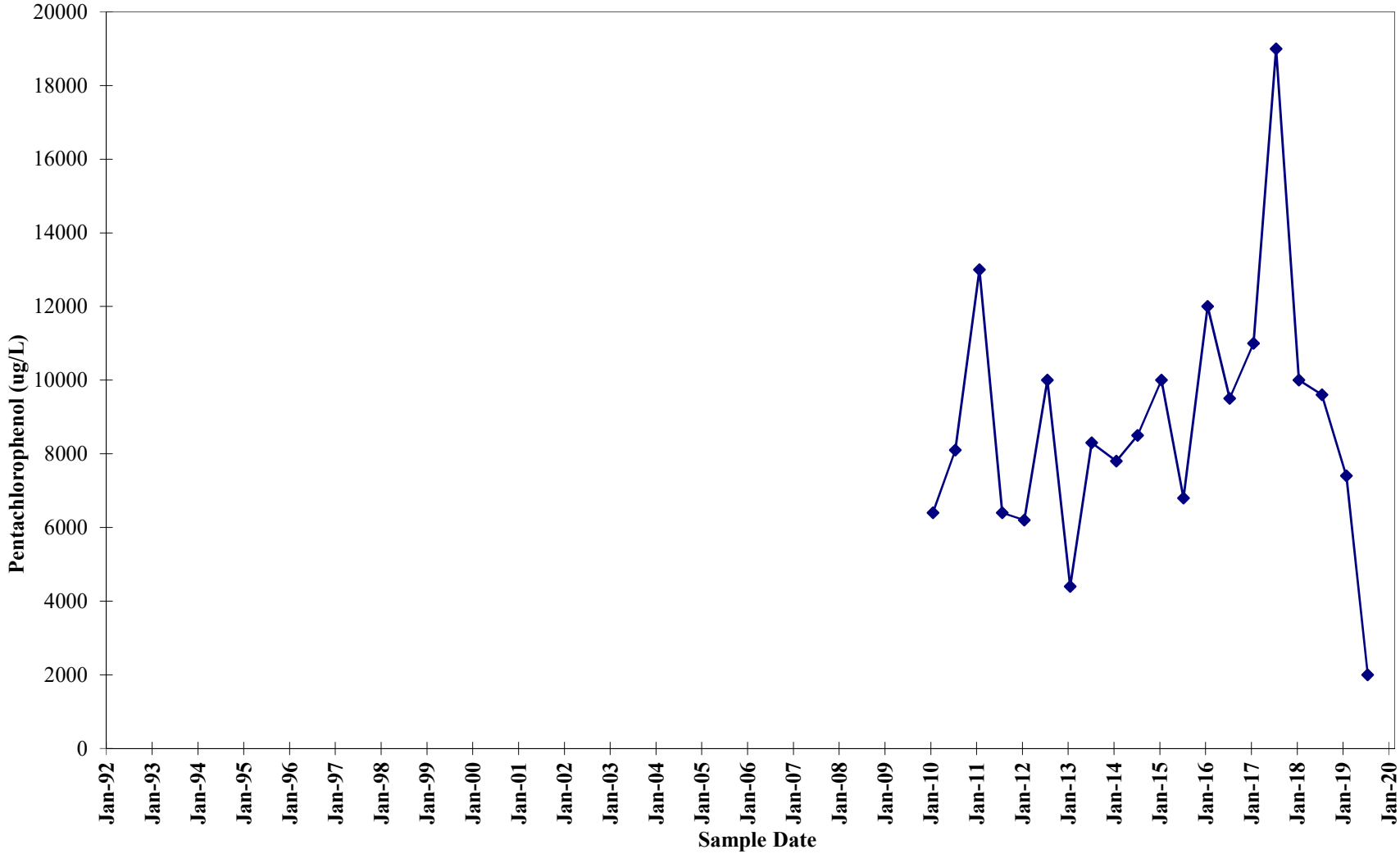
PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W39



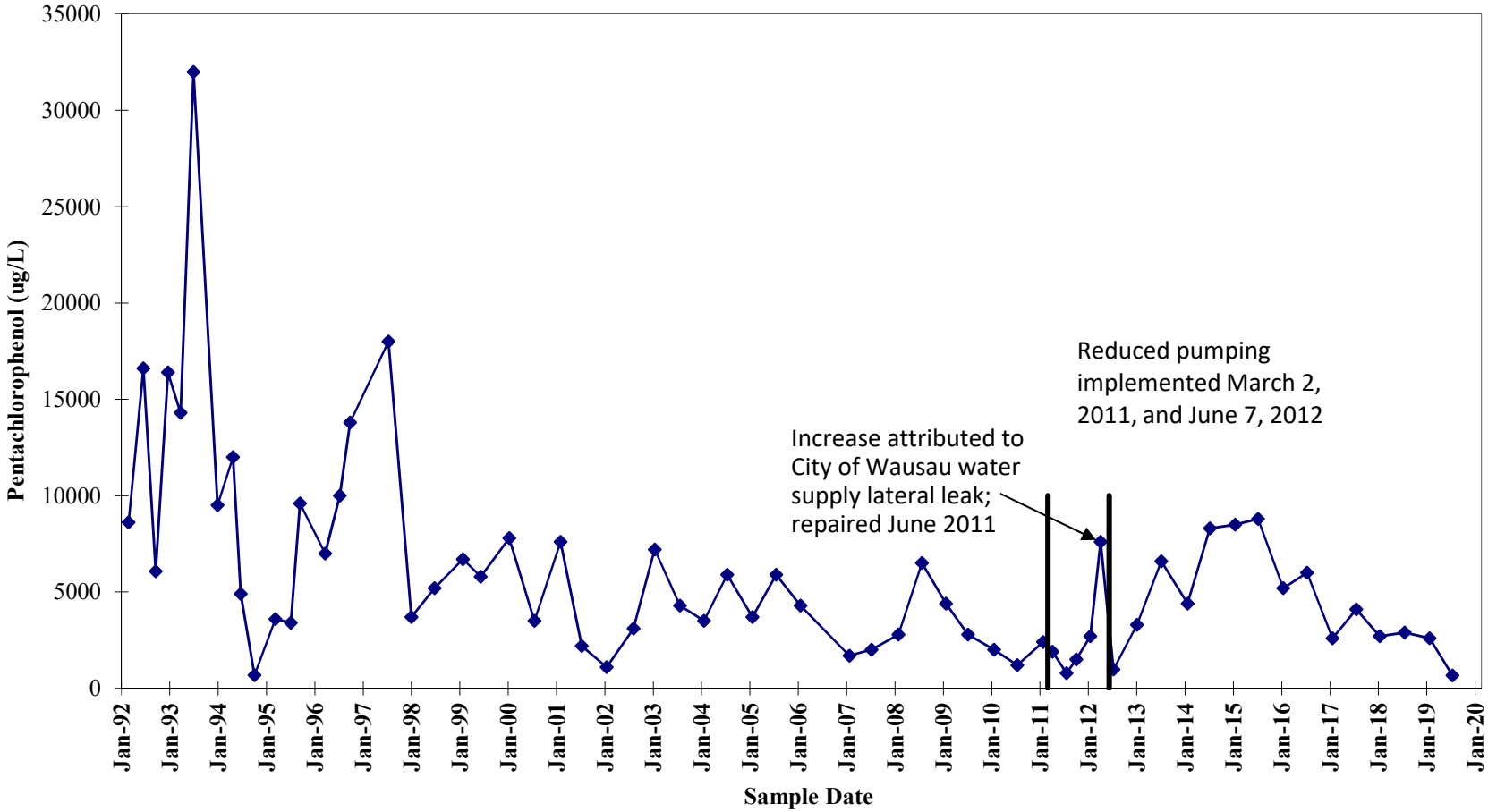
PCP data gap due to measurable product present in well.
Well W39 was abandoned on March 28, 2019 to facilitate the Thomas Street reconstruction.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W40/W40R

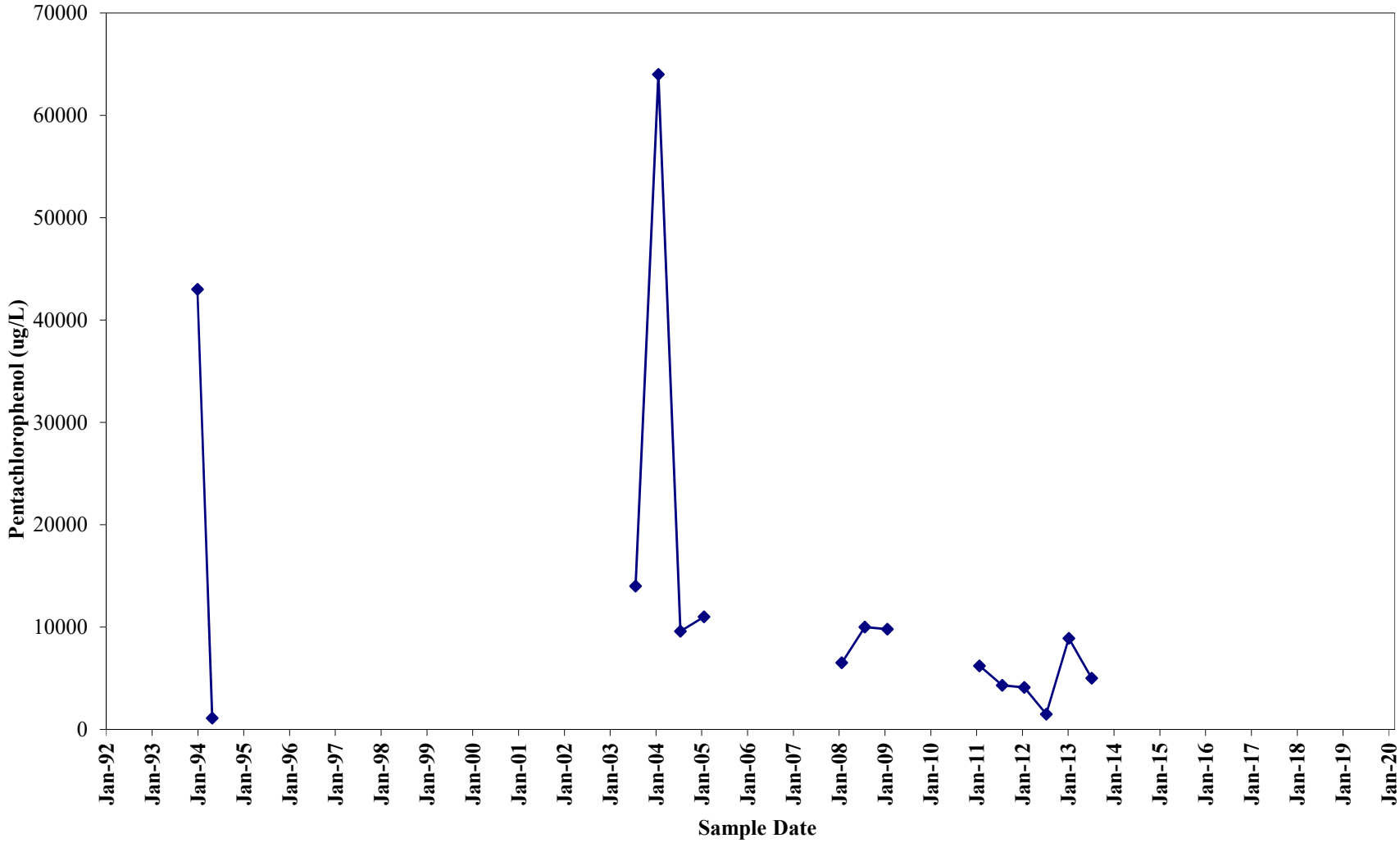


PCP data gap due to measurable product present in well.
Spike in PCP concentration in July 2017 probably due to presence of a small amount of product in water sample.
Well W40 was abandoned on March 28, 2019 to facilitate the Thomas Street reconstruction.
Replacement well W40R was installed on June 24, 2019.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W41

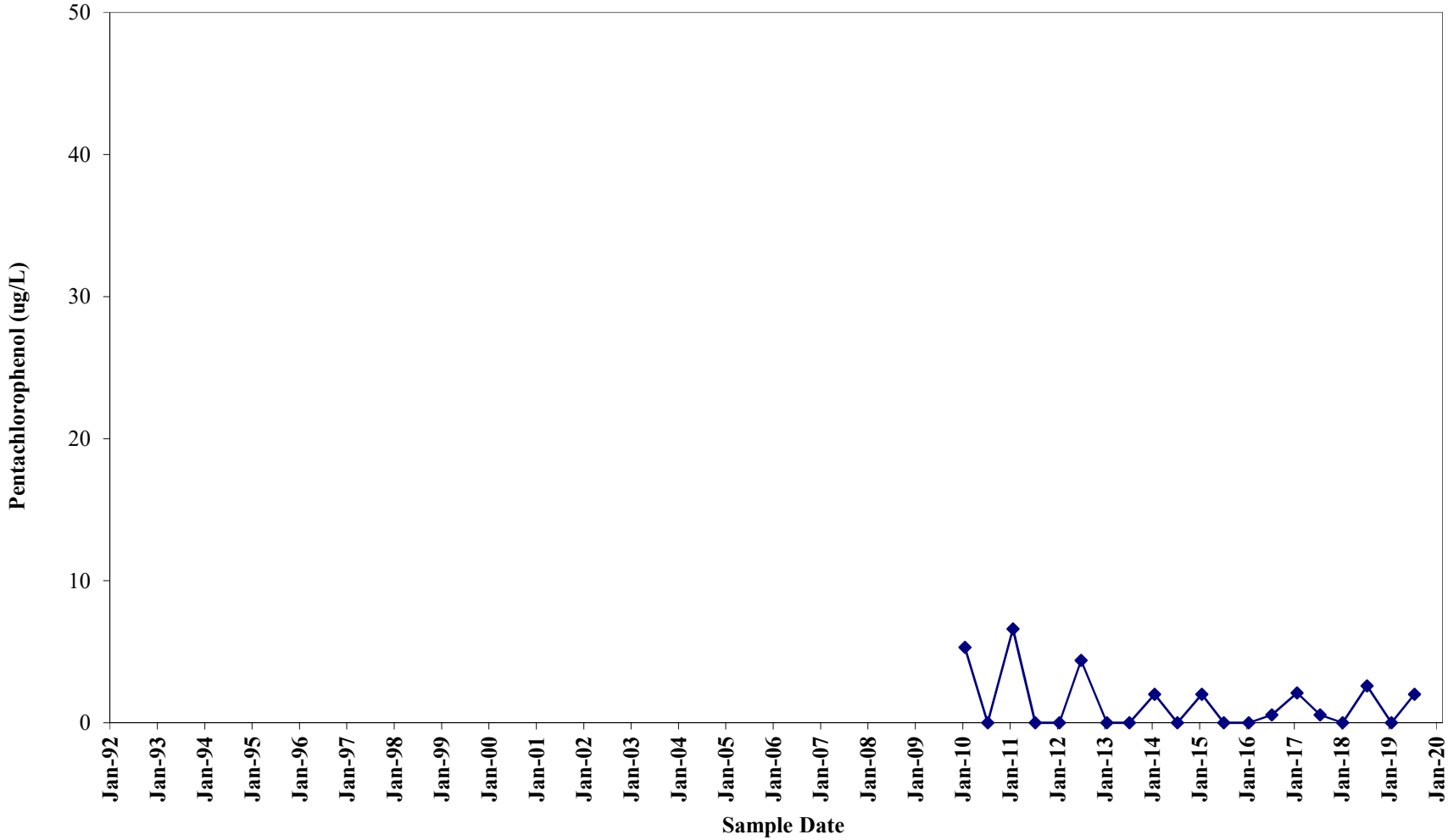


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W69

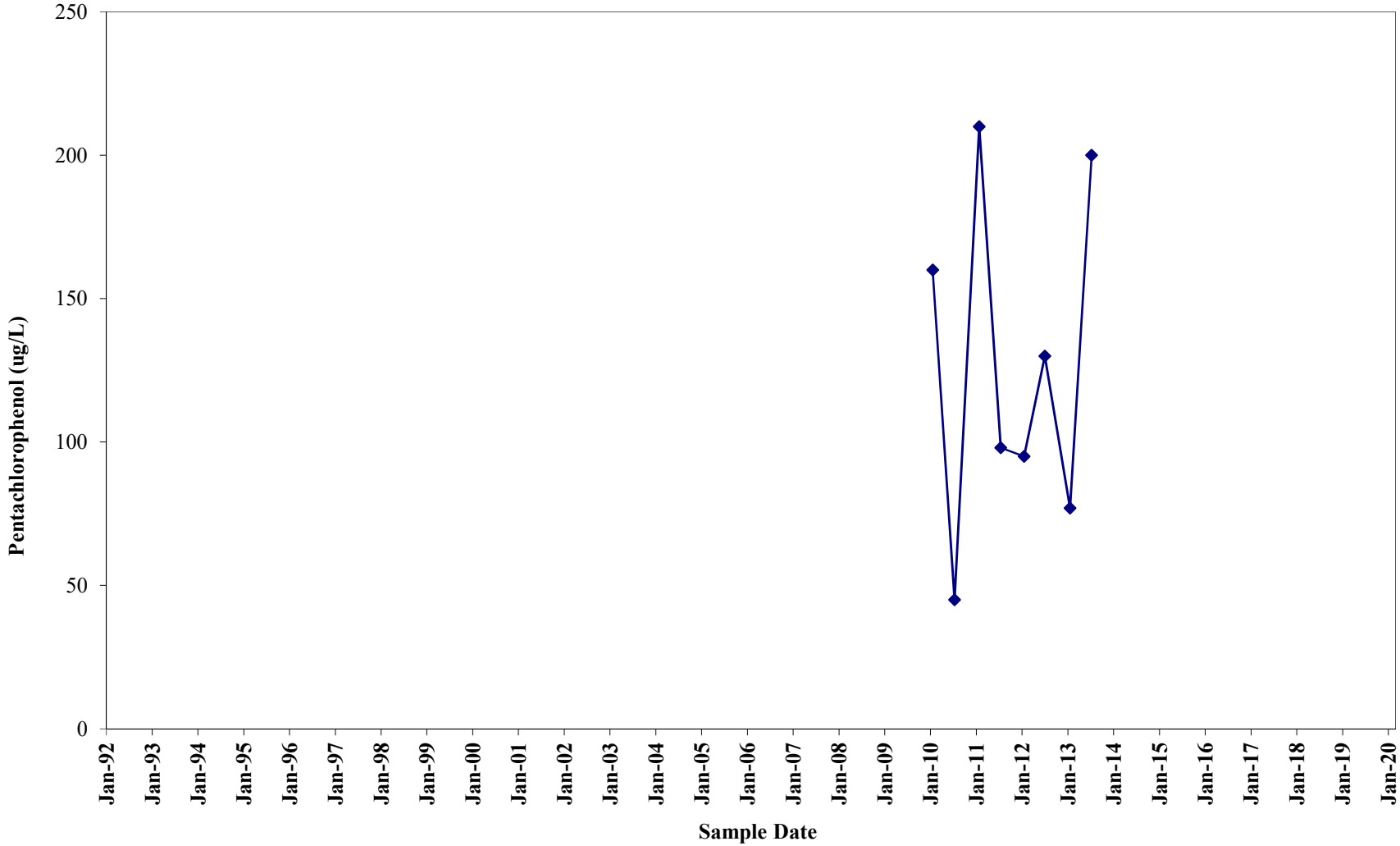


PCP data gap due to measurable product present in well.
Well W69 discontinued from the monitoring program beginning in 2014.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW5

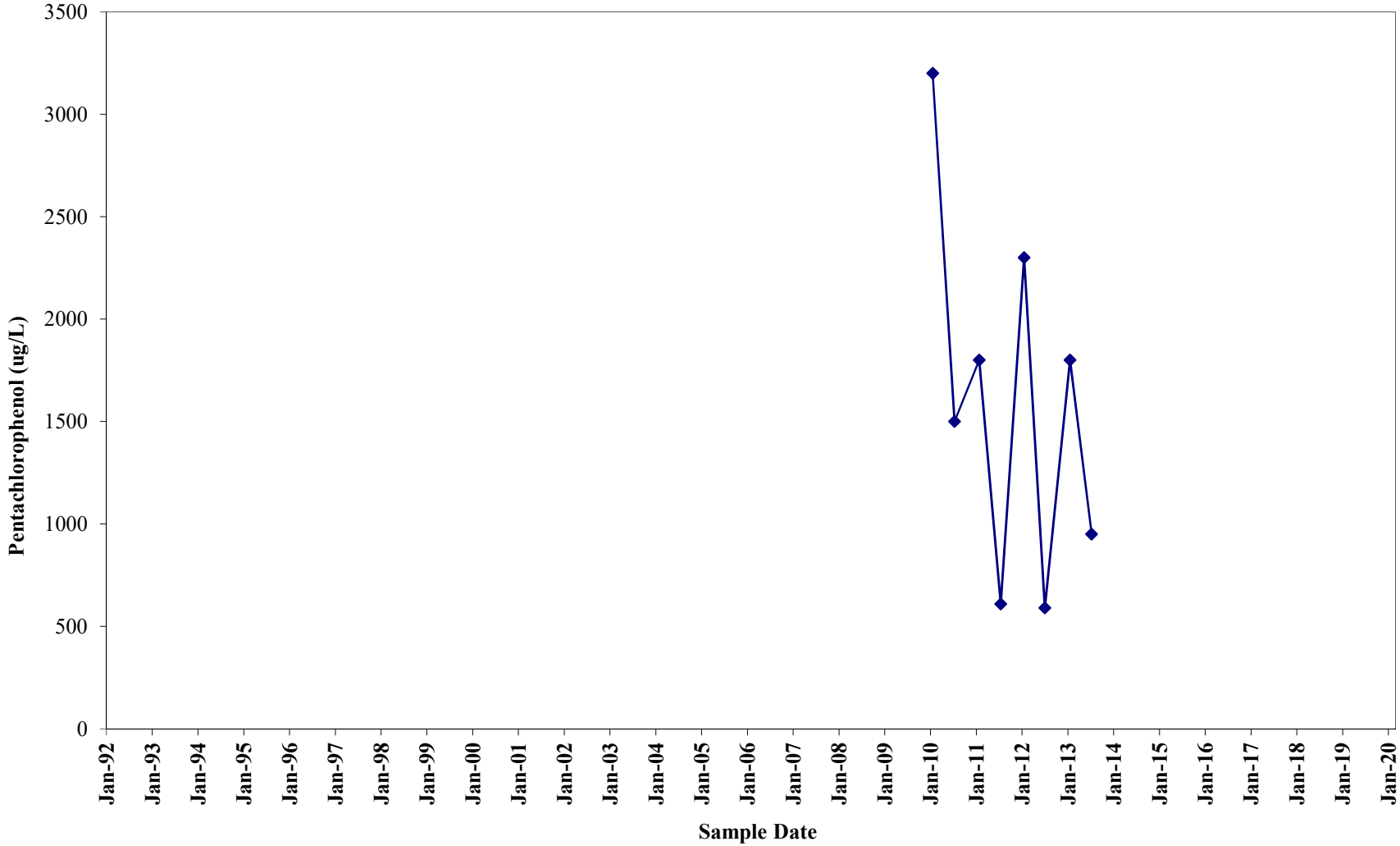


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW9



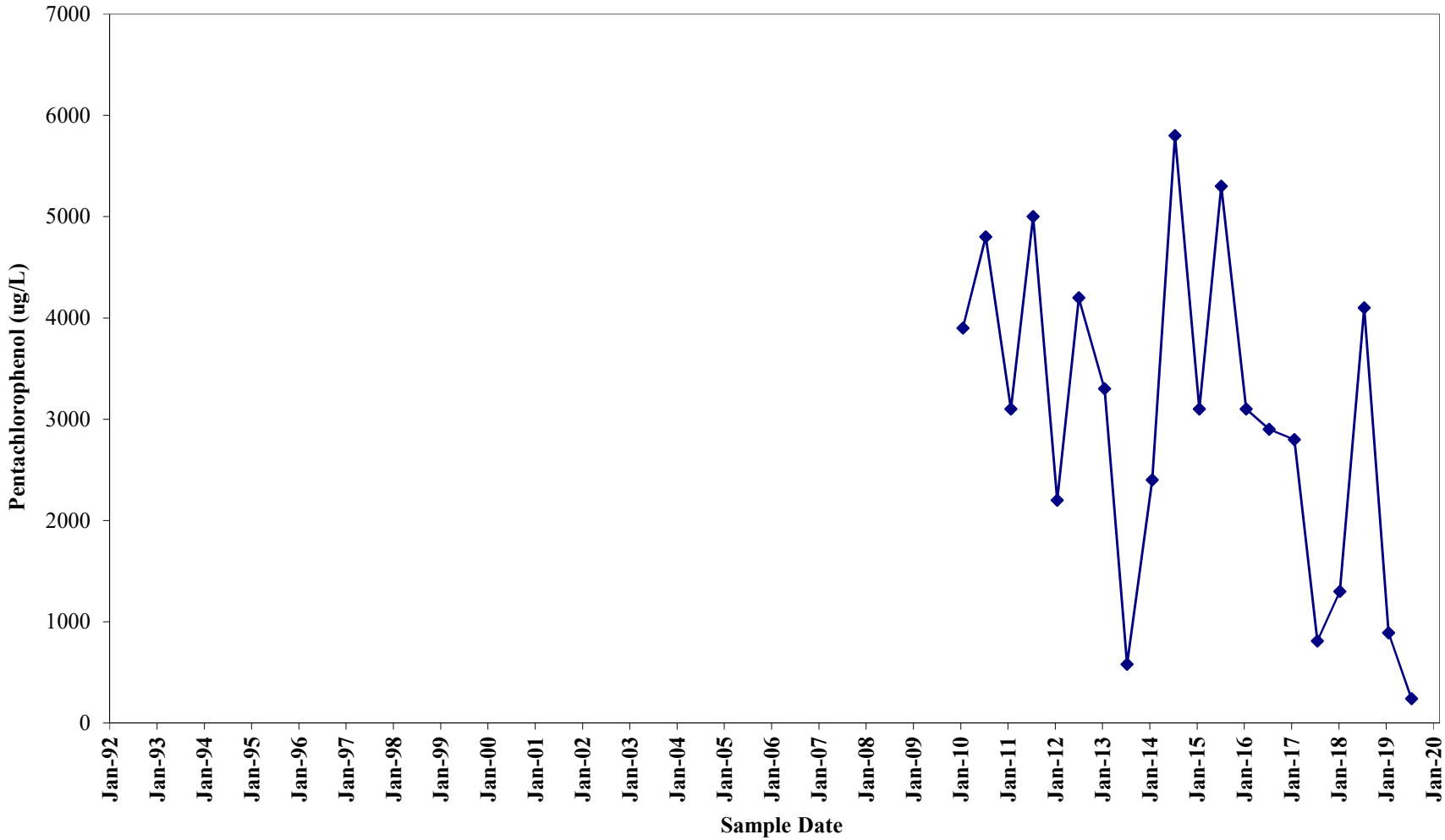
Well DFOMW9 discontinued from monitoring program beginning in 2014.
3M abandoned this well in 2015.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW10A

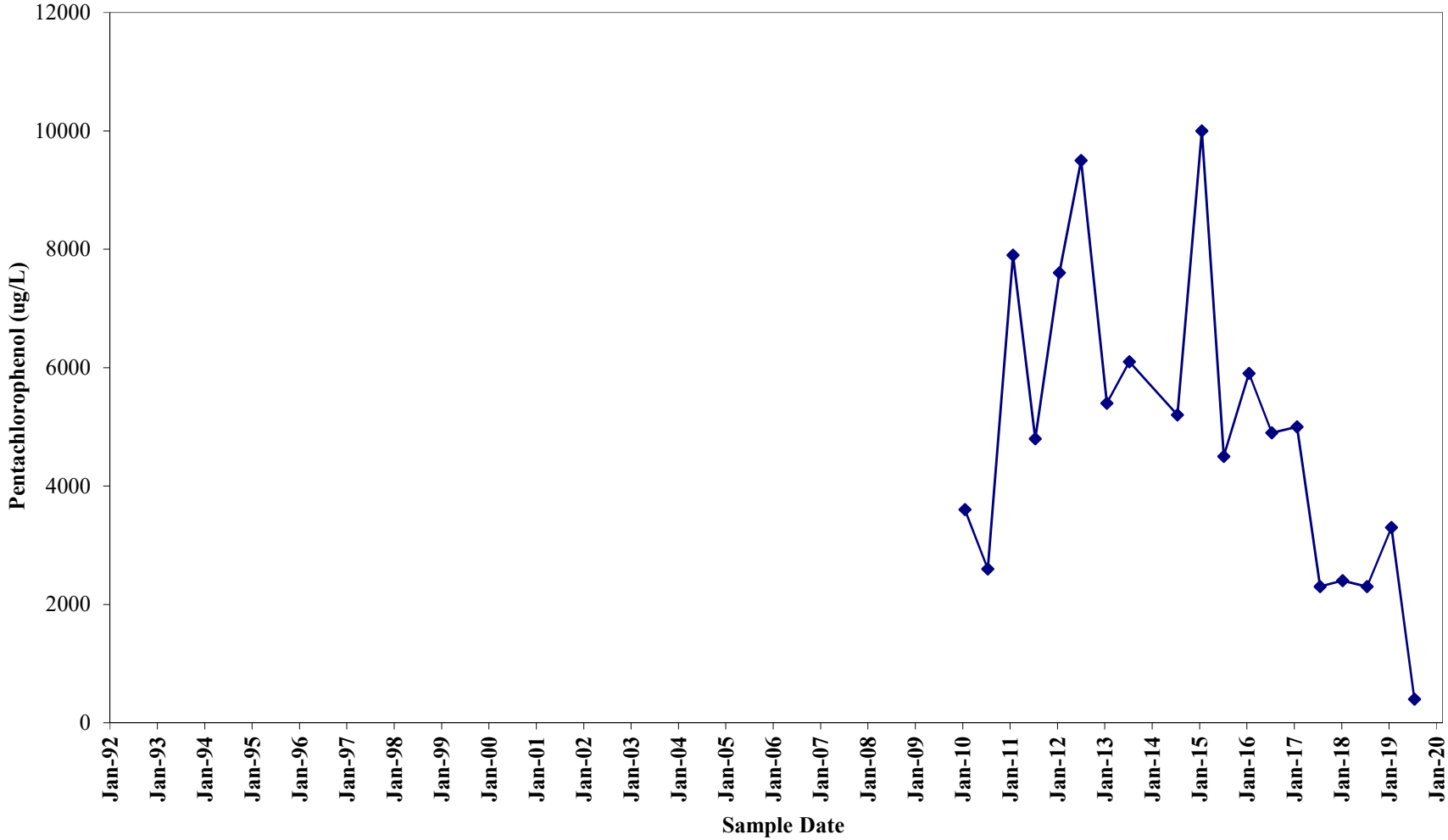


Well DFOMW10A discontinued from monitoring program beginning in 2014.
3M abandoned this well in 2015.

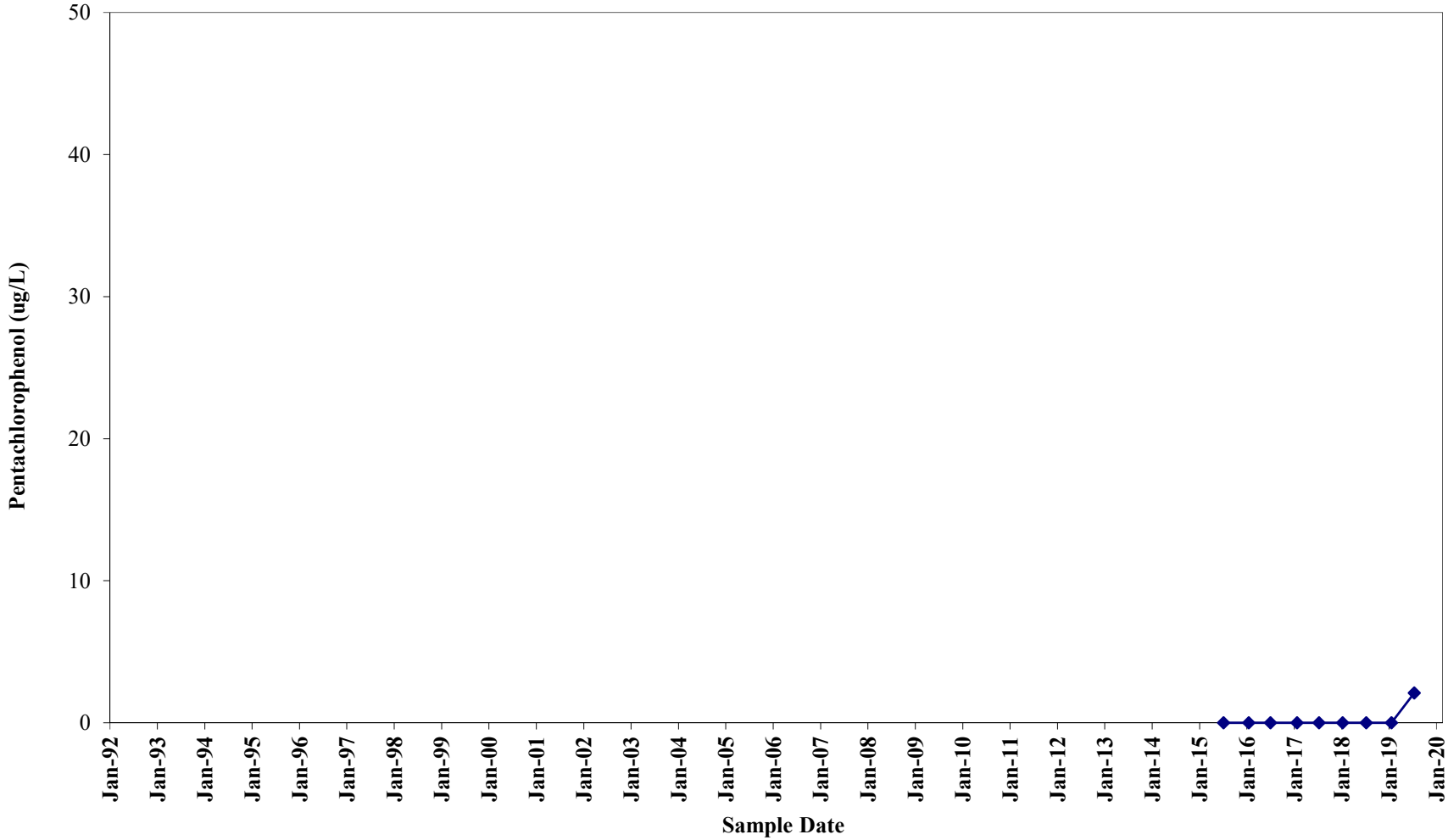
Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW11



Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW12

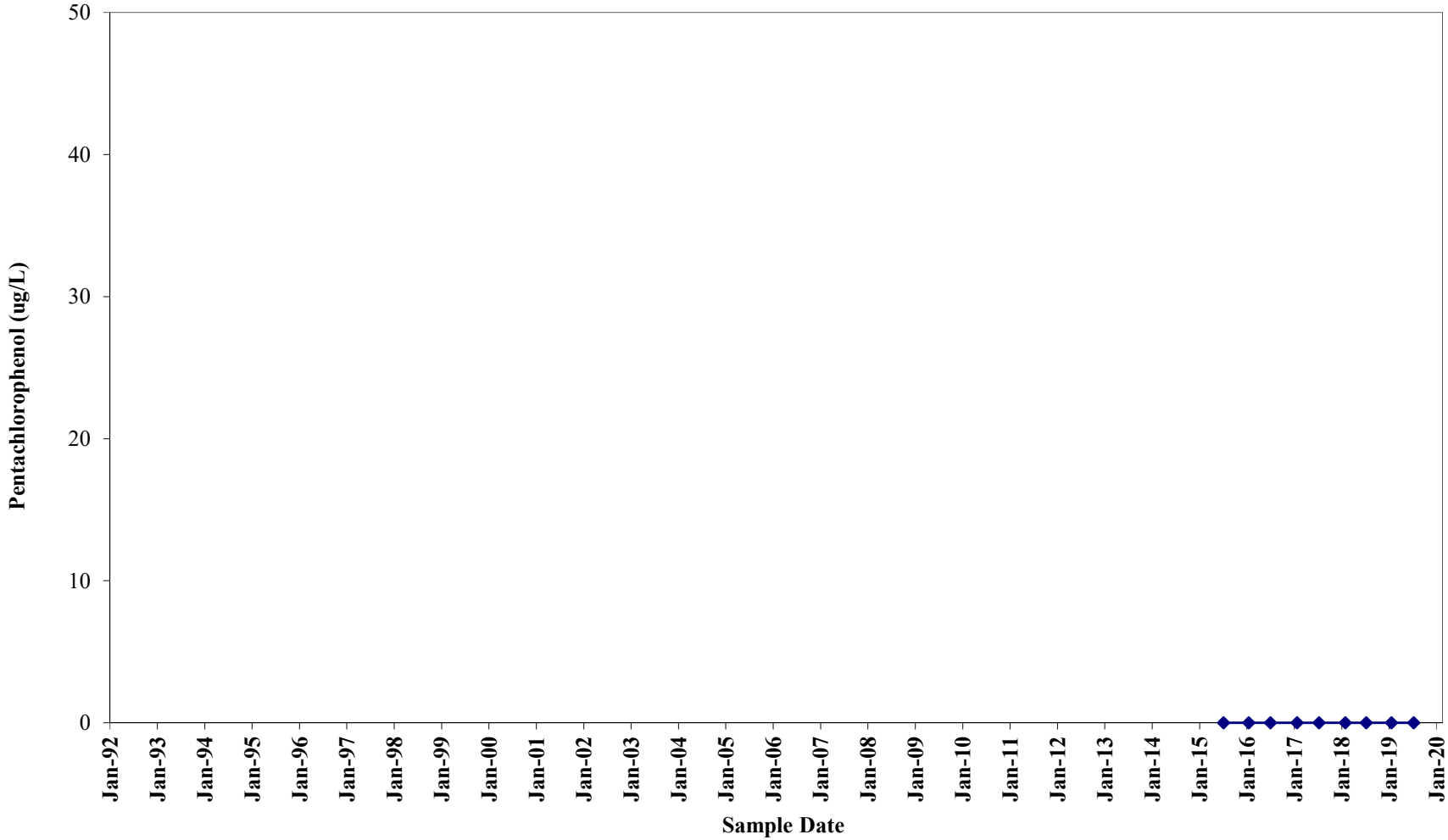


Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W71



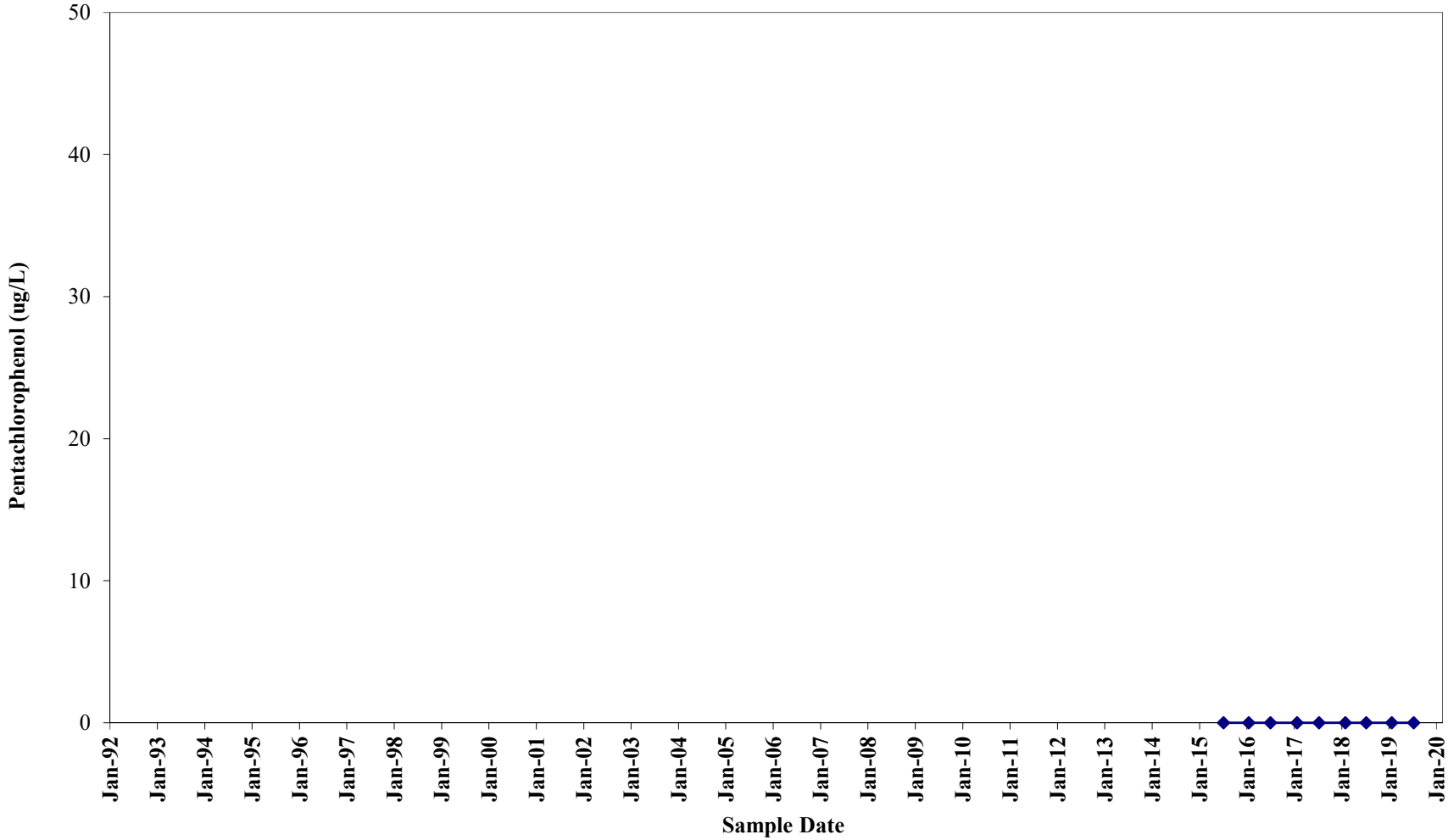
Well W71 installed in June 2015.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W72



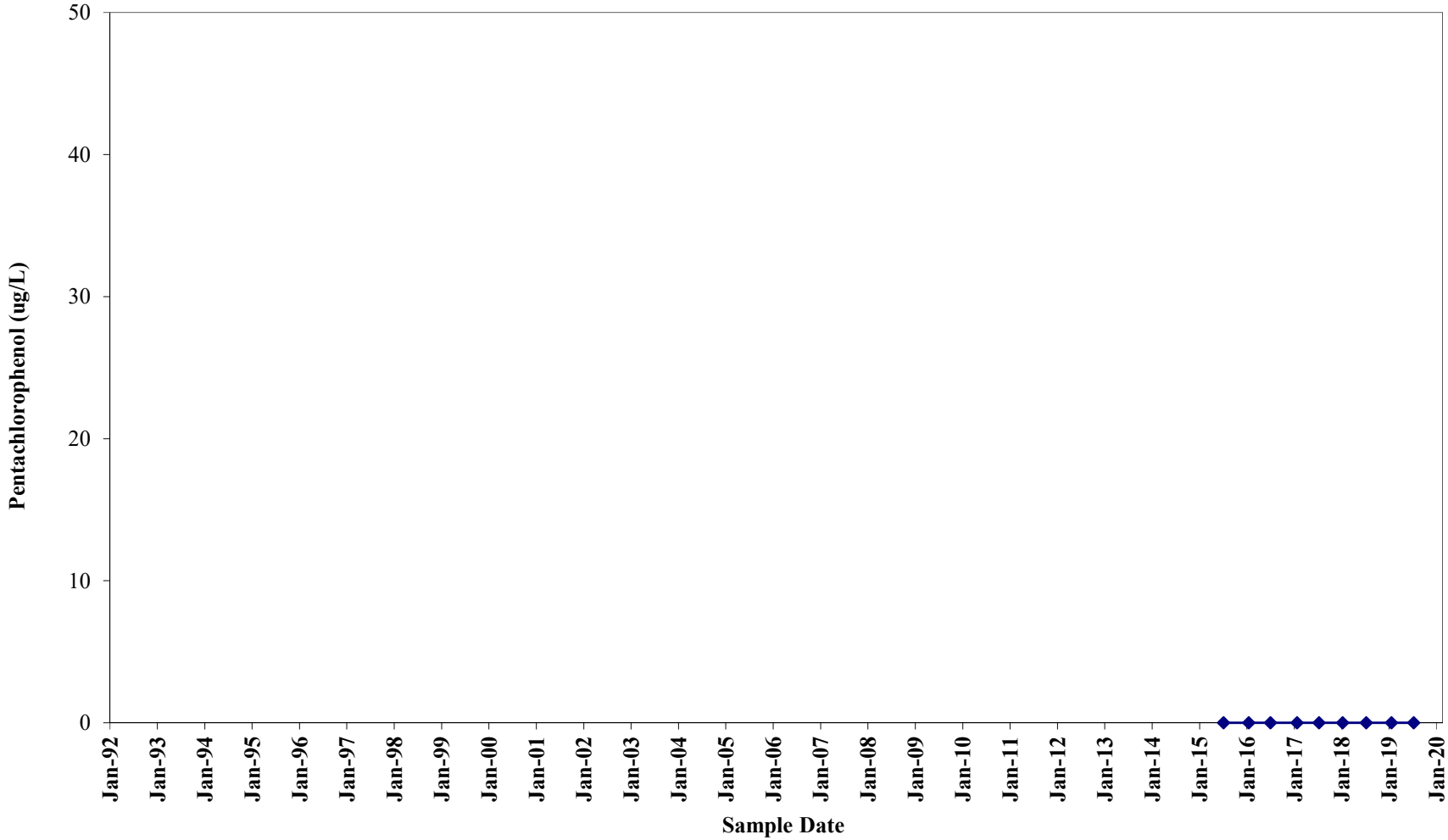
Well W72 installed in June 2015.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W73



Well W73 installed in June 2015.

Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W74



Well W74 installed in June 2015.

APPENDIX D

LABORATORY REPORT

D1 January 2019
D2 July 2019

D1

January 2019

CT LABORATORIES
delivering more than data from your environmental analyses

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608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Project #: 189597.0008
Folder #: 142423
Purchase Order #: 132526
Contract #: 2399

Arrival Temperature: 2.8
Report Date: 02/04/2019
Date Received: 01/22/2019
Reprint Date: 02/04/2019

CT LAB#: 234818 Sample Description: W72 Sampled: 01/21/2019 0820

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	<3.0	ug/L	0.48	1.6	1		01/25/2019 11:00	01/29/2019 16:22	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	78	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 16:22	JJY	EPA 8270D
Surr: 2-Fluorophenol	23	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 16:22	JJY	EPA 8270D
Surr: Phenol-d5	20	% Recovery	26.0	69.0	1	S	01/25/2019 11:00	01/29/2019 16:22	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234819 Sample Description: W71 Sampled: 01/21/2019 0910

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		01/25/2019 11:00	01/29/2019 16:42	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	75	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 16:42	JJY	EPA 8270D
Surr: 2-Fluorophenol	24	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 16:42	JJY	EPA 8270D
Surr: Phenol-d5	22	% Recovery	26.0	69.0	1	S	01/25/2019 11:00	01/29/2019 16:42	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234820 Sample Description: W74 Sampled: 01/21/2019 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		01/25/2019 11:00	01/29/2019 17:03	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	77	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 17:03	JJY	EPA 8270D
Surr: 2-Fluorophenol	23	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 17:03	JJY	EPA 8270D
Surr: Phenol-d5	21	% Recovery	26.0	69.0	1	S	01/25/2019 11:00	01/29/2019 17:03	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234821 Sample Description: DFOMW5 Sampled: 01/21/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	<3.0	ug/L	0.48	1.6	1		01/25/2019 11:00	01/29/2019 17:23	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	100	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 17:23	JJY	EPA 8270D
Surr: 2-Fluorophenol	26	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 17:23	JJY	EPA 8270D
Surr: Phenol-d5	27	% Recovery	26.0	69.0	1		01/25/2019 11:00	01/29/2019 17:23	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234822 Sample Description: DFOMW11 Sampled: 01/21/2019 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	890	ug/L	9.7	33	20		01/25/2019 11:00	01/30/2019 14:28	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	20	D	01/25/2019 11:00	01/30/2019 14:28	JJY	EPA 8270D
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	20	D	01/25/2019 11:00	01/30/2019 14:28	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	20	D	01/25/2019 11:00	01/30/2019 14:28	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234823 Sample Description: DFOMW12 Sampled: 01/21/2019 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	3300	ug/L	49	170	100		01/25/2019 11:00	01/30/2019 15:50	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	100	D	01/25/2019 11:00	01/30/2019 15:50	JJY	EPA 8270D
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	100	D	01/25/2019 11:00	01/30/2019 15:50	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	100	D	01/25/2019 11:00	01/30/2019 15:50	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234824 Sample Description: DFOMW12 DUP Sampled: 01/21/2019 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	3500	ug/L	48	160	100		01/25/2019 11:00	01/30/2019 16:11	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	100	D	01/25/2019 11:00	01/30/2019 16:11	JJY	EPA 8270D
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	100	D	01/25/2019 11:00	01/30/2019 16:11	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	100	D	01/25/2019 11:00	01/30/2019 16:11	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234825 Sample Description: W25 Sampled: 01/21/2019 1110

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	5.4	mg/L	0.12	0.40	1			01/22/2019 15:00	TMG	EPA 9056A
Organic Results										
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
Pentachlorophenol	3.1	ug/L	0.48	1.6	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.96	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	85	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
Surr: 2-Fluorophenol	30	% Recovery	27.0	72.0	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D
Surr: Phenol-d5	26	% Recovery	26.0	69.0	1		01/25/2019 11:00	01/29/2019 17:44	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234826 Sample Description: W39 Sampled: 01/21/2019 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/22/2019 15:20	TMG	EPA 9056A
Organic Results										
2,3,4,6-Tetrachlorophenol	30	ug/L	2.5	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2,4,5-Trichlorophenol	<4.4	ug/L	4.4	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2,4,6-Trichlorophenol	<4.0	ug/L	4.0	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2,4-Dichlorophenol	<5.0	ug/L	5.0	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2,4-Dimethylphenol	<3.8	ug/L	3.8	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2,4-Dinitrophenol	<5.6	ug/L	5.6	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2,6-Dichlorophenol	<4.0	ug/L	4.0	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2-Chlorophenol	<4.6	ug/L	4.6	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2-Methylphenol	<3.8	ug/L	3.8	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
2-Nitrophenol	<4.0	ug/L	4.0	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
3 & 4-Methylphenol	<4.4	ug/L	4.4	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<5.8	ug/L	5.8	21	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
4-Chloro-3-methylphenol	<4.2	ug/L	4.2	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
4-Nitrophenol	<4.6	ug/L	4.6	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
Pentachlorophenol	720	ug/L	9.6	33	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
Phenol	<5.0	ug/L	5.0	19	20		01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	20	D	01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	20	D	01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	20	D	01/25/2019 11:00	01/30/2019 14:48	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 234827 Sample Description: W39 DUP Sampled: 01/21/2019 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/22/2019 15:40	TMG	EPA 9056A
Organic Results										
2,3,4,6-Tetrachlorophenol	33	ug/L	2.5	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2,4,5-Trichlorophenol	<4.4	ug/L	4.4	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2,4,6-Trichlorophenol	<4.0	ug/L	4.0	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2,4-Dichlorophenol	<5.0	ug/L	5.0	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2,4-Dimethylphenol	<3.8	ug/L	3.8	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2,4-Dinitrophenol	<5.6	ug/L	5.6	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2,6-Dichlorophenol	<4.0	ug/L	4.0	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2-Chlorophenol	<4.6	ug/L	4.6	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2-Methylphenol	<3.8	ug/L	3.8	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
2-Nitrophenol	<4.0	ug/L	4.0	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
3 & 4-Methylphenol	<4.4	ug/L	4.4	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<5.8	ug/L	5.8	21	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
4-Chloro-3-methylphenol	<4.2	ug/L	4.2	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
4-Nitrophenol	<4.6	ug/L	4.6	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
Pentachlorophenol	720	ug/L	9.6	33	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
Phenol	<5.0	ug/L	5.0	19	20		01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	20	D	01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	20	D	01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	20	D	01/25/2019 11:00	01/30/2019 15:09	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested.
This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached. This report has been specifically prepared to satisfy project or program requirements.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page _____ of _____

Company Name: TRC
Project Contact: Bruce Iverson
Telephone:
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Folder #: 142423
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: DRT PM: BM

[redacted]atories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Ice Present Yes No
Temperature <2.8 4135, 5463
Initials RS
Date 1/22/19 Time 0920
Cooler # 4135, 5463

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions:

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	(Phenols 8270) PCP only							Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
							Fill in Spaces with Bottles per Test													
1/21/19	0820			G	W72	N		GW	2							2		A	234818
	0910				W71														234819
	1025				W74														234820
	1400				DFOMW5														234821
	1440				DFOMW11														234822
	1525				DFOMW12														234823
↓	1525			↓	DFOMW12 Dup	↓		↓	↓							↓			234824

Relinquished By:	Date/Time	Relinquished By:	Date/Time
S.J. Dushek	1/21/19 1630	RS	1/22/19 0920
Received by:	Date/Time	Received by:	Date/Time
		RS	1/22/19 0980

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Rev. 3/2003

Chain of Custody

Page _____ of _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

142423
Place Header Sticker Here:
Lab Use Only

Ice Present (Yes) No
Temperature 1.6
Initials RD
Date 11/22/19 Time 0920
Cooler # 6135

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions:

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	Nitrate						Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test										
11/21/19	1110			G	W25	N		GW	2	1						3			234825
	1200				W39														234826
	1200				W39 Dup														234827
									A	A									

Relinquished By:	Date/Time	Relinquished By:	Date/Time
J. J. Dushek	11/21/19 1630	R	11/22/19 0920
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		R	11/22/19 0920

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

UPS Electronic Return Label: View/Print Label

1. **Ensure that there are no other tracking labels attached to your shipment.**
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. **GETTING YOUR SHIPMENT TO UPS**
   - Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
   - Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Center, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping Outlet near you. Return items sent via UPS Returns® services (including via UPS Ground) are accepted at all UPS Drop Box locations. To find the closest drop box location, visit UPS Global Locator

UPS Access Point™
GOIN POSTAL WAUSAU
607 S 24TH AVE
WAUSAU WI

UPS Access Point™
THE UPS STORE
4404 RIB MOUNTAIN DR
WAUSAU WI

CUSTODY SEAL
DATE 1-21-19
SIGNATURE T J Dushek

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

1 50 LBS

RS

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-1

UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4222 5912

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

XXL 19.01.26 NW45.00.9A 10/2018

Ice Present Yes No
Temperature 1.6
Initials RS
Date 1/22/19 Time 1020
Cooler # 6135

142483

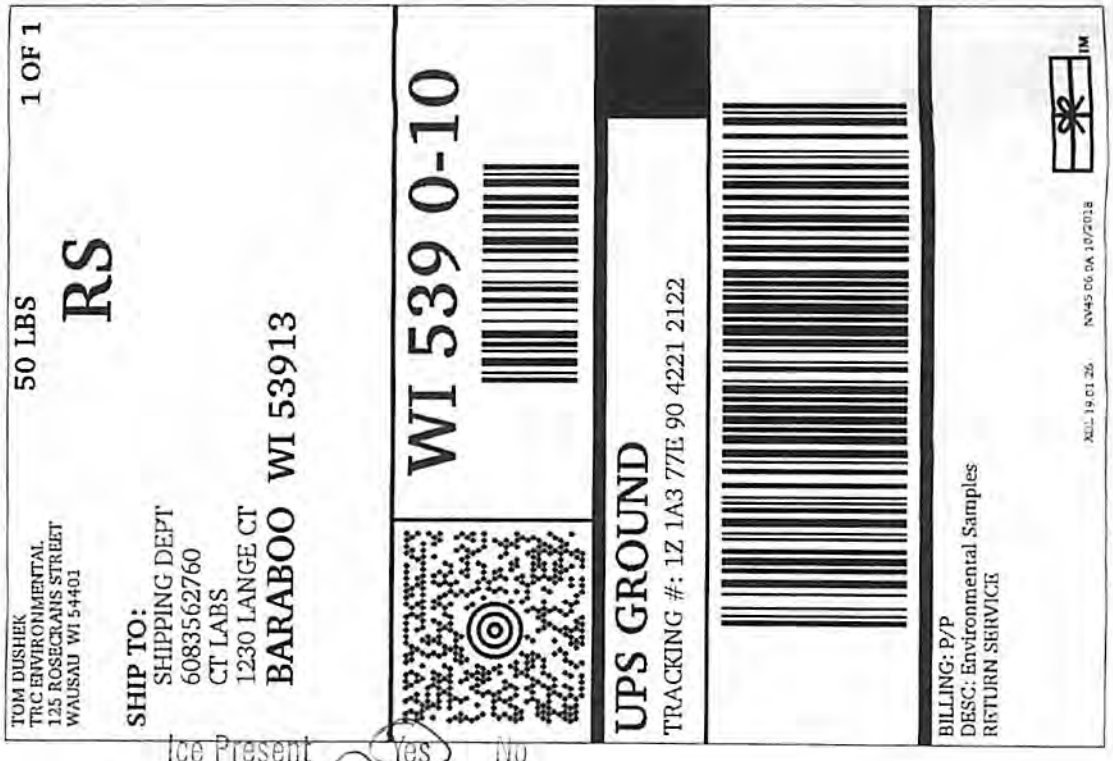
UPS Electronic Return Label: View/Print Label

1. **Ensure that there are no other tracking labels attached to your shipment.**
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. **GETTING YOUR SHIPMENT TO UPS**
   - Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
   - Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Center, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping Outlet near you. Return items sent via UPS Returns® services (including via UPS Ground) are accepted at all UPS Drop Box locations. To find the closest drop box location, visit UPS Global Locator

UPS Access Point™
GOIN POSTAL WAUSAU
607 S 24TH AVE
WAUSAU WI

UPS Access Point™
THE UPS STORE
4404 RIB MOUNTAIN DR
WAUSAU WI

FOLD HERE



Ice Present Yes No
Temperature 2.8
Initials
Date 11/22/19 Time 0920
Cooler # 5463

143423

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608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Project #: 189597.0008
Folder #: 142468
Purchase Order #: 132526
Contract #: 2399

Arrival Temperature: 3.2
Report Date: 02/04/2019
Date Received: 01/23/2019
Reprint Date: 02/04/2019

CT LAB#: 235122 Sample Description: W8 Sampled: 01/22/2019 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	3.5	mg/L	0.12	0.40	1			01/23/2019 15:32	TMG	EPA 9056A
Total Sulfate	15	mg/L	0.80	2.5	1			01/23/2019 15:32	TMG	EPA 9056A
Total Organic Carbon	1.3	mg/L	0.40	1.3	1			01/24/2019 10:37	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2019 00:36	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/25/2019 00:36	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/24/2019 15:00	01/30/2019 06:38	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235122 Sample Description: W8 Sampled: 01/22/2019 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.50	1.7	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	84	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
Surr: 2-Fluorophenol	25	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D
Surr: Phenol-d5	24	% Recovery	26.0	69.0	1	S	01/25/2019 11:00	01/29/2019 18:05	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235123 Sample Description: W73 Sampled: 01/22/2019 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	20	mg/L	0.80	2.5	1			01/23/2019 16:52	TMG	EPA 9056A
Total Organic Carbon	2.8	mg/L	0.40	1.3	1			01/24/2019 11:35	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2019 00:56	NAH	EPA 6010C
Dissolved Manganese	51.4	ug/L	2.2	7.3	1			01/25/2019 00:56	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/24/2019 15:00	01/30/2019 07:10	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.97	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	91	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D
Surr: 2-Fluorophenol	26	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235123 Sample Description: W73 Sampled: 01/22/2019 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: Phenol-d5	24	% Recovery	26.0	69.0	1	S	01/25/2019 11:00	01/29/2019 18:25	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235124 Sample Description: W12 Sampled: 01/22/2019 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	24	mg/L	0.80	2.5	1			01/23/2019 17:12	TMG	EPA 9056A
Total Organic Carbon	1.1	mg/L	0.40 *	1.3	1			01/24/2019 11:49	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2019 01:03	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/25/2019 01:03	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<31	ug/L	31	100	1		01/24/2019 15:00	01/30/2019 07:42	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235125 Sample Description: W13 Sampled: 01/22/2019 1345

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.66	mg/L	0.12	0.40	1			01/23/2019 15:52	TMG	EPA 9056A
Total Sulfate	9.2	mg/L	0.80	2.5	1			01/23/2019 15:52	TMG	EPA 9056A
Total Organic Carbon	1.1	mg/L	0.40 *	1.3	1			01/24/2019 12:02	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2019 01:10	NAH	EPA 6010C
Dissolved Manganese	10.4	ug/L	2.2	7.3	1			01/25/2019 01:10	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/24/2019 15:00	01/30/2019 08:14	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.48	1.6	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.96	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	89	% Recovery	60.0	111	1		01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235125 Sample Description: W13 Sampled: 01/22/2019 1345

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	25	% Recovery	27.0	72.0	1	S	01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D
Surr: Phenol-d5	22	% Recovery	26.0	69.0	1	S	01/25/2019 11:00	01/29/2019 18:46	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235126 Sample Description: W11 Sampled: 01/22/2019 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	11	mg/L	0.80	2.5	1			01/23/2019 17:33	TMG	EPA 9056A
Total Organic Carbon	1.4	mg/L	0.40	1.3	1			01/24/2019 12:15	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2019 01:16	NAH	EPA 6010C
Dissolved Manganese	415	ug/L	2.2	7.3	1			01/25/2019 01:16	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/24/2019 15:00	01/30/2019 08:46	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235127 Sample Description: W16 Sampled: 01/22/2019 1515

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	20	mg/L	0.80	2.5	1			01/23/2019 17:53	TMG	EPA 9056A
Total Organic Carbon	1.6	mg/L	0.40	1.3	1			01/24/2019 12:30	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2019 01:23	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/25/2019 01:23	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<31	ug/L	31	100	1		01/24/2019 15:00	01/30/2019 09:18	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235128 Sample Description: FP2 Sampled: 01/22/2019 1545

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	3.0	mg/L	0.80	2.5	1			01/23/2019 18:13	TMG	EPA 9056A
Total Organic Carbon	7.7	mg/L	0.40	1.3	1			01/24/2019 13:20	TMG	EPA 9060A
Metals Results										
Dissolved Iron	15600	ug/L	59	200	1			01/25/2019 01:30	NAH	EPA 6010C
Dissolved Manganese	7210	ug/L	2.2	7.3	1			01/25/2019 01:30	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	2600	ug/L	33	110	1		01/24/2019 15:00	01/30/2019 09:50	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235129 Sample Description: PW17 Sampled: 01/22/2019 1600

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	9.3	mg/L	0.80	2.5	1			01/23/2019 18:33	TMG	EPA 9056A
Total Organic Carbon	7.3	mg/L	0.40	1.3	1			01/24/2019 13:32	TMG	EPA 9060A
Metals Results										
Dissolved Iron	2910	ug/L	59	200	1			01/25/2019 01:37	NAH	EPA 6010C
Dissolved Manganese	2810	ug/L	2.2	7.3	1			01/25/2019 01:37	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	2200	ug/L	33	110	1		01/24/2019 15:00	01/30/2019 10:22	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached. This report has been specifically prepared to satisfy project or program requirements.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Folder # 142468
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JLS PM: BM

Ice Present (Yes) No
Temperature 3.2, 1.1 1.3
Initials
Date 1/23/19 Time 1015
Cooler # 6209, 6216

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other

Turnaround Time
(Normal) RUSH* Date Needed
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate			Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test											
1/22/19	1040			G	W8	N		GW	1	1	1	1	2	✓			6			235122
	1130				W73				1	1	1	1	2				6			235123
	1225				W12				1	1	1	1					4			235124
	1345				W13				1	1	1	1	2	✓			6			235125
	1430				W11				1	1	1	1					4			235126
	1515				W16				1	1	1	1					4			235127
	1545				FP2				1	1	1	1					4			235128
↓	1600			↓	PW17	↓		↓	1	1	1	1					4			235129
									A	C	A	D								

Client Special Instructions:
Metals are filtered.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
T. Dushek 1700	1/22/19 1700		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
			1/23/19 1015

****Matrix**
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other

CT LABORATORIES
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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Project #: 189597.0008
Folder #: 142492
Purchase Order #: 132526
Contract #: 2399

Arrival Temperature: 1.8
Report Date: 02/04/2019
Date Received: 01/24/2019
Reprint Date: 02/04/2019

CT LAB#: 235408 Sample Description: W18 Sampled: 01/23/2019 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	18	mg/L	0.80	2.5	1			01/24/2019 16:32	TMG	EPA 9056A
Total Organic Carbon	1.0	mg/L	0.40 *	1.3	1			01/24/2019 13:45	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1	M,Y		01/29/2019 15:11	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/29/2019 15:11	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/24/2019 15:00	01/30/2019 17:56	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235409 Sample Description: W28 Sampled: 01/23/2019 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	13	mg/L	0.80	2.5	1			01/24/2019 16:52	TMG	EPA 9056A
Total Organic Carbon	1.0	mg/L	0.40 *	1.3	1			01/24/2019 13:59	TMG	EPA 9060A
Metals Results										
Dissolved Iron	70.5	ug/L	59 *	200	1			01/29/2019 15:31	NAH	EPA 6010C
Dissolved Manganese	31.1	ug/L	2.2	7.3	1			01/29/2019 15:31	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/24/2019 15:00	01/30/2019 18:28	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235410 Sample Description: W29 Sampled: 01/23/2019 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	17	mg/L	0.80	2.5	1			01/24/2019 17:12	TMG	EPA 9056A
Total Organic Carbon	2.8	mg/L	0.40	1.3	1			01/24/2019 14:13	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/29/2019 15:38	NAH	EPA 6010C
Dissolved Manganese	166	ug/L	2.2	7.3	1			01/29/2019 15:38	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	42	ug/L	31 *	100	1		01/24/2019 15:00	01/30/2019 19:01	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235411 Sample Description: W19 Sampled: 01/23/2019 1500

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.8	mg/L	0.12	0.40	1			01/24/2019 15:31	TMG	EPA 9056A
Total Sulfate	20	mg/L	0.80	2.5	1			01/24/2019 15:31	TMG	EPA 9056A
Total Organic Carbon	2.3	mg/L	0.40	1.3	1			01/24/2019 14:27	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/29/2019 15:44	NAH	EPA 6010C
Dissolved Manganese	80.1	ug/L	2.2	7.3	1			01/29/2019 15:44	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/24/2019 15:00	01/30/2019 19:33	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	11	ug/L	0.26	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.46	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.42	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.53	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.40	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.59	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.42	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.48	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.40	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.42	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.46	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.61	2.2	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.44	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.48	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
Pentachlorophenol	89	ug/L	1.0	3.4	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.53	2.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	90	% Recovery	60.0	111	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235411 Sample Description: W19 Sampled: 01/23/2019 1500

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	31	% Recovery	27.0	72.0	2		01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D
Surr: Phenol-d5	22	% Recovery	26.0	69.0	2	S	01/25/2019 11:00	01/30/2019 13:26	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

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Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page _____ of _____

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

CTLaboratories

Folder #: 142492
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: DRT PM: BM

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Ice Present (Yes) No
Temperature 1.8
Initials [illegible]
Date 1/24/19 Time 1030
Cooler # 6159

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:
PO No. 132526
Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions:
Metals are filtered.

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate		Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test										
1/23/19	1250			G	W18	N		GW	1	1	1	1				4			235408
	1330				W28				1	1	1	1				4			235409
	1415				W29				1	1	1	1				4			235410
	1500				W19				1	1	1	1	2	✓		6			235411
									A	C	A	D	A	A					

Relinquished By: T. J. Dushek — Date/Time 1/23/19 1700
Received by: — Date/Time
Relinquished By: — Date/Time 1/24/19 1030
Received by: — Date/Time 1/24/19 1050

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

UPS Electronic Return Label: View/Print Label

1. **Ensure that there are no other tracking labels attached to your shipment.**
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. **GETTING YOUR SHIPMENT TO UPS**
   - Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
   - Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Center, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping Outlet near you. Return items sent via UPS Returns® services (including via UPS Ground) are accepted at all UPS Drop Box locations. To find the closest drop box location, visit UPS Global Locator

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WAUSAU WI

UPS Access Point™
THE UPS STORE
4404 RIB MOUNTAIN DR
WAUSAU WI

FOLD HERE

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS 1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10

UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4051 7155

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

XCL 19.01.26 NV45 09.0A 01/2019

Ice Present Yes No
Temperature 7.8
Initials RF
Date 1/24/19 Time 1430
Cooler 17F 6059

142452

CUSTODY SEAL
DATE 1-23-19
SIGNATURE

QEC Quality Environmental Containers
800-255-3950 • 304-255-3900

CT LABORATORIES
delivering more than data from your environmental analyses

CT Laboratories LLC • 1230 Lange Ct • Baraboo, WI 53913
608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Project #: 189597.0008
Folder #: 142520
Purchase Order #: 132526
Contract #: 2399

Arrival Temperature: 0.9
Report Date: 02/06/2019
Date Received: 01/25/2019
Reprint Date: 02/07/2019

CT LAB#: 235651 Sample Description: W26 Sampled: 01/24/2019 0745

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	3.5	mg/L	0.12	0.40	1			01/25/2019 13:38	TMG	EPA 9056A
Total Sulfate	33	mg/L	0.80	2.5	1			01/25/2019 13:38	TMG	EPA 9056A
Total Organic Carbon	3.5	mg/L	0.40	1.3	1			01/28/2019 11:28	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/29/2019 15:51	NAH	EPA 6010C
Dissolved Manganese	21.0	ug/L	2.2	7.3	1			01/29/2019 15:51	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/31/2019 12:30	02/04/2019 14:48	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13 *	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235651 Sample Description: W26 Sampled: 01/24/2019 0745

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylphenol	<3.0	ug/L	0.19	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
Pentachlorophenol	6.8	ug/L	0.48	1.6	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.96	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	84	% Recovery	60.0	111	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
Surr: 2-Fluorophenol	33	% Recovery	27.0	72.0	1		01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D
Surr: Phenol-d5	22	% Recovery	26.0	69.0	1	S	01/31/2019 12:30	02/05/2019 15:59	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235652 Sample Description: W17 Sampled: 01/24/2019 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/25/2019 13:58	TMG	EPA 9056A
Total Sulfate	3.3	mg/L	0.80	2.5	1			01/25/2019 13:58	TMG	EPA 9056A
Total Organic Carbon	3.4	mg/L	0.40	1.3	1			01/28/2019 12:24	TMG	EPA 9060A
Metals Results										
Dissolved Iron	895	ug/L	59	200	1			01/29/2019 15:58	NAH	EPA 6010C
Dissolved Manganese	391	ug/L	2.2	7.3	1			01/29/2019 15:58	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	580	ug/L	34	110	1		01/31/2019 12:30	02/04/2019 15:21	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.27 *	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.47	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.43	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.53	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.41	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.59	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.43	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.49	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.41	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.43	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.47	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.61	2.2	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.45	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.49	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
Pentachlorophenol	67	ug/L	1.0	3.5	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.53	2.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	71	% Recovery	60.0	111	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235652 Sample Description: W17 Sampled: 01/24/2019 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	32	% Recovery	27.0	72.0	2		01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D
Surr: Phenol-d5	20	% Recovery	26.0	69.0	2	S	01/31/2019 12:30	02/05/2019 13:37	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235653 Sample Description: W6R Sampled: 01/24/2019 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.68	mg/L	0.12	0.40	1			01/25/2019 14:18	TMG	EPA 9056A
Total Sulfate	30	mg/L	0.80	2.5	1			01/25/2019 14:18	TMG	EPA 9056A
Total Organic Carbon	6.0	mg/L	0.40	1.3	1			01/28/2019 12:38	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/29/2019 16:23	NAH	EPA 6010C
Dissolved Manganese	167	ug/L	2.2	7.3	1			01/29/2019 16:23	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	570	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 15:55	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	93	ug/L	6.6	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2,6-Dichlorophenol	<11	ug/L	11	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2-Chlorophenol	<12	ug/L	12	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2-Methylphenol	<10	ug/L	10	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
2-Nitrophenol	<11	ug/L	11	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
3 & 4-Methylphenol	<12	ug/L	12	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	56	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
4-Nitrophenol	<12	ug/L	12	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
Pentachlorophenol	1600	ug/L	25	86	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
Phenol	<13	ug/L	13	51	50		01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	50	D	01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235653 Sample Description: W6R Sampled: 01/24/2019 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	50	D	01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	50	D	01/31/2019 12:30	02/06/2019 11:05	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235654 Sample Description: W3A Sampled: 01/24/2019 1005

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/25/2019 14:38	TMG	EPA 9056A
Total Sulfate	4.3	mg/L	0.80	2.5	1			01/25/2019 14:38	TMG	EPA 9056A
Total Organic Carbon	4.6	mg/L	0.40	1.3	1			01/29/2019 10:33	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1460	ug/L	59	200	1			01/29/2019 16:29	NAH	EPA 6010C
Dissolved Manganese	800	ug/L	2.2	7.3	1			01/29/2019 16:29	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	5000	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 16:28	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	15	ug/L	1.3	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	2.2	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.0	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.5	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.9	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.8	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.0	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.3	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.9	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.0	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	2.2	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	2.9	11	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.1	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.3	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
Pentachlorophenol	290	ug/L	4.9	17	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
Phenol	<3.0	ug/L	2.5	9.7	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	67	% Recovery	60.0	111	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235654 Sample Description: W3A Sampled: 01/24/2019 1005

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	43	% Recovery	27.0	72.0	10		01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D
Surr: Phenol-d5	20	% Recovery	26.0	69.0	10	S	01/31/2019 12:30	02/05/2019 16:20	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235655 Sample Description: W10A Sampled: 01/24/2019 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	8.4	mg/L	0.80	2.5	1			01/25/2019 14:58	TMG	EPA 9056A
Total Organic Carbon	6.9	mg/L	0.40	1.3	1			01/29/2019 10:49	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1460	ug/L	59	200	1			01/29/2019 16:36	NAH	EPA 6010C
Dissolved Manganese	3240	ug/L	2.2	7.3	1			01/29/2019 16:36	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	1100	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 17:01	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235656 Sample Description: W10A DUP Sampled: 01/24/2019 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	8.7	mg/L	0.80	2.5	1			01/25/2019 15:18	TMG	EPA 9056A
Total Organic Carbon	7.0	mg/L	0.40	1.3	1			01/29/2019 11:04	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1300	ug/L	59	200	1			01/29/2019 16:43	NAH	EPA 6010C
Dissolved Manganese	3240	ug/L	2.2	7.3	1			01/29/2019 16:43	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	910	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 17:34	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235657 Sample Description: W27 Sampled: 01/24/2019 1145

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	31	mg/L	0.80	2.5	1			01/25/2019 15:38	TMG	EPA 9056A
Total Organic Carbon	14	mg/L	0.40	1.3	1			01/29/2019 11:19	TMG	EPA 9060A
Metals Results										
Dissolved Iron	4360	ug/L	59	200	1			01/29/2019 16:49	NAH	EPA 6010C
Dissolved Manganese	16000	ug/L	2.2	7.3	1			01/29/2019 16:49	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	3000	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 18:07	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235658 Sample Description: W41 Sampled: 01/24/2019 1255

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/25/2019 15:58	TMG	EPA 9056A
Total Sulfate	4.1	mg/L	0.80	2.5	1			01/25/2019 15:58	TMG	EPA 9056A
Total Organic Carbon	48	mg/L	0.40	1.3	1			01/29/2019 11:32	TMG	EPA 9060A
Metals Results										
Dissolved Iron	7940	ug/L	59	200	1			01/29/2019 16:56	NAH	EPA 6010C
Dissolved Manganese	17100	ug/L	2.2	7.3	1			01/29/2019 16:56	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	2400	ug/L	34	110	1		01/31/2019 12:30	02/04/2019 19:47	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	66	ug/L	13 *	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2,4-Dichlorophenol	<25	ug/L	25	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2,4-Dinitrophenol	<28	ug/L	28	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2-Chlorophenol	<24	ug/L	24	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2-Methylphenol	<20	ug/L	20	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
2-Nitrophenol	<21	ug/L	21	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<29	ug/L	29	110	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
4-Nitrophenol	<24	ug/L	24	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
Pentachlorophenol	2600	ug/L	49	170	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
Phenol	<25	ug/L	25	98	100		01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	100	D	01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235658 Sample Description: W41 Sampled: 01/24/2019 1255

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	100	D	01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	100	D	01/31/2019 12:30	02/06/2019 12:16	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235659 Sample Description: BLANK 01 Sampled: 01/24/2019 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/25/2019 17:39	TMG	EPA 9056A
Total Sulfate	<0.80	mg/L	0.80	2.5	1			01/25/2019 17:39	TMG	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.3	1			01/29/2019 11:46	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/29/2019 17:03	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/29/2019 17:03	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 20:20	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.97	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	82	% Recovery	60.0	111	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 235659 Sample Description: BLANK 01 Sampled: 01/24/2019 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	35	% Recovery	27.0	72.0	1		01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D
Surr: Phenol-d5	22	% Recovery	26.0	69.0	1	S	01/31/2019 12:30	02/05/2019 12:57	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder #: 142520
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JLS PM: BM

Ice Present (Yes) No
Temperature 0.9
Initials DS
Date 1/25/19 Time 9:50
Cooler # 625, 543, 607

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions:
Metals are filtered.

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Fill'd Y/N	WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate			Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test											
1/24/19	0745			G	W26	N		GW	1	1	1	1	2	✓			6			235651
	0840				W17															235652
	0915				W6R															235653
	1005				W3A															235654
	1050				W10A												4			235655
	1050				W10A Dup															235656
	1145				W27															235657
	1255				W41								2	✓			6			235658
	1330				Blank 01															235659
									A	C	A	D	A	A						

Relinquished By:	Date/Time	Relinquished By:	Date/Time
T. J. Dushek	1/24/19 1600	JS	1/25/19 1000
Received by:	Date/Time	Received by:	Date/Time
			1/25/19 9:50

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

CT LABORATORIES
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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Project #: 189597.0008
Folder #: 142546
Purchase Order #: 132526
Contract #: 2399

Arrival Temperature: 0.8
Report Date: 02/14/2019
Date Received: 01/29/2019
Reprint Date: 02/14/2019

CT LAB#: 236439 Sample Description: W22 Sampled: 01/28/2019 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.60	mg/L	0.12	0.40	1			01/29/2019 12:48	TMG	EPA 9056A
Total Sulfate	26	mg/L	0.80	2.5	1			01/29/2019 12:48	TMG	EPA 9056A
Total Organic Carbon	9.1	mg/L	0.40	1.3	1			02/06/2019 15:58	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/30/2019 13:23	NAH	EPA 6010C
Dissolved Manganese	1980	ug/L	2.2	7.3	1			01/30/2019 13:23	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	1500	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 20:53	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	160	ug/L	13	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2,4,5-Trichlorophenol	<22	ug/L	22	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2,4,6-Trichlorophenol	<20	ug/L	20	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2,4-Dichlorophenol	<25	ug/L	25	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2,4-Dimethylphenol	<19	ug/L	19	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2,4-Dinitrophenol	<28	ug/L	28	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2,6-Dichlorophenol	<20	ug/L	20	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2-Chlorophenol	<23	ug/L	23	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236439 Sample Description: W22 Sampled: 01/28/2019 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylphenol	<19	ug/L	19	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
2-Nitrophenol	<20	ug/L	20	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
3 & 4-Methylphenol	<22	ug/L	22	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<29	ug/L	29	110	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
4-Chloro-3-methylphenol	<21	ug/L	21	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
4-Nitrophenol	<23	ug/L	23	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
Pentachlorophenol	3000	ug/L	48	160	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
Phenol	<25	ug/L	25	96	100		01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	100	D	01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	100	D	01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	100	D	01/31/2019 12:30	02/06/2019 11:27	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236440 Sample Description: W22 DUP Sampled: 01/28/2019 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.47	mg/L	0.12	0.40	1			01/29/2019 13:08	TMG	EPA 9056A
Total Sulfate	22	mg/L	0.80	2.5	1			01/29/2019 13:08	TMG	EPA 9056A
Total Organic Carbon	8.3	mg/L	0.40	1.3	1			02/06/2019 16:53	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/30/2019 13:43	NAH	EPA 6010C
Dissolved Manganese	1990	ug/L	2.2	7.3	1			01/30/2019 13:43	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	1500	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 21:26	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	200	ug/L	13	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2,4,5-Trichlorophenol	<22	ug/L	22	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2,4,6-Trichlorophenol	<20	ug/L	20	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2,4-Dichlorophenol	<25	ug/L	25	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2,4-Dimethylphenol	<19	ug/L	19	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2,4-Dinitrophenol	<28	ug/L	28	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2,6-Dichlorophenol	<20	ug/L	20	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2-Chlorophenol	<23	ug/L	23	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2-Methylphenol	<19	ug/L	19	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
2-Nitrophenol	<20	ug/L	20	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
3 & 4-Methylphenol	<22	ug/L	22	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<29	ug/L	29	110	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
4-Chloro-3-methylphenol	<21	ug/L	21	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
4-Nitrophenol	<23	ug/L	23	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
Pentachlorophenol	3100	ug/L	49	170	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
Phenol	<25	ug/L	25	97	100		01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	100	D	01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236440 Sample Description: W22 DUP Sampled: 01/28/2019 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	100	D	01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	100	D	01/31/2019 12:30	02/06/2019 11:52	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236441 Sample Description: W33 Sampled: 01/28/2019 0830

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/29/2019 13:27	TMG	EPA 9056A
Total Sulfate	15	mg/L	0.80	2.5	1			01/29/2019 13:27	TMG	EPA 9056A
Total Organic Carbon	7.9	mg/L	0.40	1.3	1			02/06/2019 17:06	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1130	ug/L	59	200	1			01/30/2019 13:50	NAH	EPA 6010C
Dissolved Manganese	2170	ug/L	2.2	7.3	1			01/30/2019 13:50	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	5700	ug/L	32	110	1		01/31/2019 12:30	02/04/2019 21:59	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	1100	ug/L	25	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2,4,5-Trichlorophenol	<44	ug/L	44	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2,4,6-Trichlorophenol	<40	ug/L	40	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2,4-Dichlorophenol	<50	ug/L	50	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2,4-Dimethylphenol	<38	ug/L	38	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2,4-Dinitrophenol	<56	ug/L	56	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2,6-Dichlorophenol	<40	ug/L	40	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2-Chlorophenol	<46	ug/L	46	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2-Methylphenol	<38	ug/L	38	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
2-Nitrophenol	<40	ug/L	40	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
3 & 4-Methylphenol	<44	ug/L	44	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<58	ug/L	58	210	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
4-Chloro-3-methylphenol	<42	ug/L	42	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
4-Nitrophenol	<46	ug/L	46	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
Pentachlorophenol	8000	ug/L	96	330	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
Phenol	<50	ug/L	50	190	200		01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	200	D	01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236441 Sample Description: W33 Sampled: 01/28/2019 0830

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	200	D	01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	200	D	01/31/2019 12:30	02/06/2019 12:41	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236442 Sample Description: W40 Sampled: 01/28/2019 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			01/29/2019 13:46	TMG	EPA 9056A
Total Sulfate	7.6	mg/L	0.80	2.5	1			01/29/2019 13:46	TMG	EPA 9056A
Total Organic Carbon	24	mg/L	0.40	1.3	1			02/06/2019 17:20	TMG	EPA 9060A
Metals Results										
Dissolved Iron	5050	ug/L	59	200	1			01/30/2019 13:57	NAH	EPA 6010C
Dissolved Manganese	12800	ug/L	2.2	7.3	1			01/30/2019 13:57	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	140000	ug/L	3200	11000	100		01/31/2019 12:30	02/05/2019 09:19	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	670	ug/L	25	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2,4,5-Trichlorophenol	<45	ug/L	45	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2,4,6-Trichlorophenol	<41	ug/L	41	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2,4-Dichlorophenol	<51	ug/L	51	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2,4-Dimethylphenol	<39	ug/L	39	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2,4-Dinitrophenol	<57	ug/L	57	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2,6-Dichlorophenol	<41	ug/L	41	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2-Chlorophenol	<47	ug/L	47	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2-Methylphenol	<39	ug/L	39	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
2-Nitrophenol	<41	ug/L	41	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
3 & 4-Methylphenol	<45	ug/L	45	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<59	ug/L	59	220	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
4-Chloro-3-methylphenol	<43	ug/L	43	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
4-Nitrophenol	<47	ug/L	47	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
Pentachlorophenol	7400	ug/L	98	330	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
Phenol	<51	ug/L	51	200	200		01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
Surr: 2,4,6-Tribromophenol	0	% Recovery	60.0	111	200	D	01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 236442 Sample Description: W40 Sampled: 01/28/2019 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2-Fluorophenol	0	% Recovery	27.0	72.0	200	D	01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D
Surr: Phenol-d5	0	% Recovery	26.0	69.0	200	D	01/31/2019 12:30	02/06/2019 13:04	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder # 142546
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JLS PM BM

Ice Present (Yes) No
Temperature 0.8, 0.2
Initials JLS
Date 1/29/19 Time 0955
Cooler # 6145, 6247

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions:
Metals are filtered.

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate		Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
								Fill in Spaces with Bottles per Test											
1/28/19	0740			G	W22	N		GW	1	1	1	1	2	✓		6			236439
	0740				W22 Dup														236440
	0830				W33														236441
	1000				W40														236442
									A	C	A	D	A	A					

Relinquished By: T.J. Dushek
Date/Time 1/28/19 1130
Relinquished By:
Date/Time

Received by:
Date/Time
Received by:
Date/Time 1/29/19 1005

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

D2

July 2019

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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146385
Purchase Order #: 132526

Arrival Temperature: 3.8
Report Date: 07/23/2019
Date Received: 07/09/2019
Reprint Date: 07/24/2019

CT LAB Sample#: 302415 Sample Description: W8 Sampled: 07/08/2019 0800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**3.0**	mg/L	0.12	0.40	1			07/09/2019 12:13	TMG	EPA 9056A
Total Sulfate	**16**	mg/L	0.80	2.5	1			07/09/2019 12:13	TMG	EPA 9056A
Total Organic Carbon	**1.3**	mg/L	0.40	1.3	1			07/15/2019 12:41	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2019 08:26	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/12/2019 08:26	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 10:40	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 11:42	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 16:38	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 16:38	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 16:38	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 16:38	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302415 Sample Description: W8 Sampled: 07/08/2019 0800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 16:56	JJY	EPA 8270D

CT LAB Sample#: 302416 Sample Description: W32 Sampled: 07/08/2019 0910

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/09/2019 12:32	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 10:51	MDS	EPA 7470A
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302416 Sample Description: W32 Sampled: 07/08/2019 0910

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 12:16	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 17:13	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 17:13	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 17:13	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 17:13	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.25	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.25	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.52	1.8	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 17:16	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302440 Sample Description: W16 Sampled: 07/08/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**3.7**	mg/L	0.12	0.40	1			07/09/2019 12:51	TMG	EPA 9056A
Total Sulfate	**18**	mg/L	0.80	2.5	1			07/09/2019 12:51	TMG	EPA 9056A
Total Organic Carbon	**2.8**	mg/L	0.40	1.3	1			07/15/2019 12:56	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**607**	ug/L	59	200	1			07/12/2019 08:46	NAH	EPA 6010C
Dissolved Manganese	**123**	ug/L	2.2	7.3	1			07/12/2019 08:46	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 10:53	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 12:50	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 17:48	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 17:48	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 17:48	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 17:48	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302440 Sample Description: W16 Sampled: 07/08/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.97	1		07/12/2019 13:00	07/15/2019 17:37	JJY	EPA 8270D

CT LAB Sample#: 302441 Sample Description: W18 Sampled: 07/08/2019 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**0.47**	mg/L	0.12	0.40	1			07/09/2019 13:49	TMG	EPA 9056A
Total Sulfate	**6.8**	mg/L	0.80	2.5	1			07/09/2019 13:49	TMG	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.3	1			07/15/2019 13:12	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2019 09:10	NAH	EPA 6010C
Dissolved Manganese	**5.0**	ug/L	2.2 *	7.3	1			07/12/2019 09:10	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 10:56	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 13:24	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 18:23	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 18:23	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302441 Sample Description: W18 Sampled: 07/08/2019 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 18:23	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 18:23	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
Pentachlorophenol	**2.0**	ug/L	0.51	1.7	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 17:57	JJY	EPA 8270D

CT LAB Sample#: 302442 Sample Description: W28 Sampled: 07/08/2019 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**2.5**	mg/L	0.12	0.40	1			07/09/2019 14:08	TMG	EPA 9056A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302442 Sample Description: W28 Sampled: 07/08/2019 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Sulfate	**16**	mg/L	0.80	2.5	1			07/09/2019 14:08	TMG	EPA 9056A
Total Organic Carbon	**1.0**	mg/L	0.40 *	1.3	1			07/15/2019 13:28	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2019 09:16	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/12/2019 09:16	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 10:58	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2019 09:30	07/17/2019 13:58	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 18:58	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 18:58	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 18:58	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 18:58	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302442 Sample Description: W28 Sampled: 07/08/2019 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2019 13:00	07/15/2019 18:18	JJY	EPA 8270D

CT LAB Sample#: 302443 Sample Description: W12 Sampled: 07/08/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**5.1**	mg/L	0.12	0.40	1			07/09/2019 14:28	TMG	EPA 9056A
Total Sulfate	**26**	mg/L	0.80	2.5	1			07/09/2019 14:28	TMG	EPA 9056A
Total Organic Carbon	**2.0**	mg/L	0.40	1.3	1			07/15/2019 13:43	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2019 09:23	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/12/2019 09:23	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:00	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 14:32	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 19:33	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 19:33	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 19:33	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 19:33	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302443 Sample Description: W12 Sampled: 07/08/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.97	1		07/12/2019 13:00	07/15/2019 18:38	JJY	EPA 8270D

CT LAB Sample#: 302444 Sample Description: W25 Sampled: 07/08/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**6.2**	mg/L	0.12	0.40	1			07/09/2019 14:47	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:02	MDS	EPA 7470A
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302444 Sample Description: W25 Sampled: 07/08/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 15:06	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 20:08	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 20:08	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 20:08	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 20:08	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**0.22**	ug/L	0.13 *	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
Pentachlorophenol	**3.7**	ug/L	0.49	1.7	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.97	1		07/12/2019 13:00	07/15/2019 18:59	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 302445 Sample Description: TRIP BLANK 01 Sampled: 07/08/2019 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 15:27	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 15:27	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 15:27	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 15:27	TMG	WDNR GRO

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Folder # 146385
Company: TRC ENVIRONMENTA
Project WAULECO
Logged By: JRB PM: BM

Ice Present (Yes) No
Temperature C3.8
Initials JRB
Date 7/9/19 Time 1002
Cooler #

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Regulatory Program:
UST RCRA SDWA NPDE
Solid Waste Other _____

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
								Fill in Spaces with Bottles per Test												
7/8/19	0800			G	W8	N		GW	2	1	3	1	1	✓	1	✓	9			302415
	0910				W32												8			302416
	1030				W16									✓	1	✓	9			302440
	1120				W18									✓	1	✓	9			302441
	1300				W28									✓	1	✓	9			302442
	1400				W12									✓	1	✓	9			302443
	1450				W25												8			302444
	0930				Trip Blank 01						1						1			302445
									A	A	B	D	A	A	C	D				

Client Special Instructions:
VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
T. J. Dushek	7/8/19 1630		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		JRB	7/9/19 1002

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

6279

Ice Present (Yes) No
Temperature 3.8
Initials JMB
Date 7/9/19 Time 1002
Cooler # 6279

UPS Electronic Return Label: View/Print Label

1. **Ensure that there are no other tracking labels attached to your shipment.**
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. **GETTING YOUR SHIPMENT TO UPS**
   - Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
   - Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Center, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping Outlet near you. Return items sent via UPS Returns® services (including via UPS Ground) are accepted at all UPS Drop Box locations. To find the closest drop box location, visit UPS Global Locator

UP
GO
607
WA

CUSTODY SEAL
DATE 7-8-19
SIGNATURE SJ Dushek

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

FOLD HERE

1 OF 1
50 LBS
RS

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10

UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4052 9339

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

5235

Ice Present Yes No
Temperature 2.4
Initials MB
Date 7/9/19 Time 1002
Cooler # 5235

UPS Electronic Return Label: View/Print Label

1. **Ensure that there are no other tracking labels attached to your shipment.**
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. **GETTING YOUR SHIPMENT TO UPS**
   - Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
   - Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Center, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping
   - Return items sent via UPS Returns® services (including via UPS Ground) are
   - the closest drop box location, visit UPS Global

Quality Environmental Contaiers 800-255-3950 • www.geousa.com

CUSTODY SEAL
DATE 7-8-19
SIGNATURE

GOIN POSTAL WAUSAU
607 S 24TH AVE
WAUSAU WI

4404 RIB MOUNTAIN DR
WAUSAU WI

FOLD HERE

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS 1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10

UPS GROUND

TRACKING #: 1Z 1A3 77E 90 4103 8724

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

Ice Present Yes No
Temperature 2.3
Initials JRD
Date 7/9/19 Time 1002
Cooler # 5899

UPS Electronic Return Label: View/Print Label

1. **Ensure that there are no other tracking labels attached to your shipment.**
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. **GETTING YOUR SHIPMENT TO UPS**
   - Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
   - Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Center, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping Outlet near you. Return items sent via UPS Returns® services (including via UPS Ground) are accepted at all UPS Drop Box locations. To find the closest drop box location, visit UPS Global Locator

CUSTODY SEAL
DATE 7-8-19
SIGNATURE

Quality Environmental Containers
800-255-3950 • www.qecusa.com

FOLD HERE

1 OF 1
50 LBS
RS

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10

UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4259 6343

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

XCL19 07.32 NV45 12.0A 04/2019

CT LABORATORIES
delivering more than data from your environmental analyses

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608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146443
Purchase Order #: 132526

Arrival Temperature: 5.4
Report Date: 07/23/2019
Date Received: 07/10/2019
Reprint Date: 07/24/2019

CT LAB Sample#: 303175 Sample Description: W1A Sampled: 07/09/2019 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**3.4**	mg/L	0.12	0.40	1			07/10/2019 14:50	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:04	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**120**	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 15:40	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**4.1**	ug/L	0.40	1.3	1			07/11/2019 20:43	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 20:43	TMG	WDNR GRO
Naphthalene	**1.1**	ug/L	0.90 *	2.9	1			07/11/2019 20:43	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 20:43	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**0.94**	ug/L	0.13 *	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303175 Sample Description: W1A Sampled: 07/09/2019 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
Pentachlorophenol	**11**	ug/L	0.51	1.7	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 19:19	JJY	EPA 8270D

CT LAB Sample#: 303177 Sample Description: W36 Sampled: 07/09/2019 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**5.8**	mg/L	0.12	0.40	1			07/10/2019 15:09	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:06	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/12/2019 09:30	07/17/2019 17:29	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 21:18	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 21:18	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303177 Sample Description: W36 Sampled: 07/09/2019 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 21:18	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 21:18	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**0.74**	ug/L	0.13 *	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
Pentachlorophenol	**10**	ug/L	0.50	1.7	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 19:39	JJY	EPA 8270D

CT LAB Sample#: 303178 Sample Description: W3B Sampled: 07/09/2019 1110

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**3.1**	mg/L	0.12	0.40	1			07/10/2019 15:29	TMG	EPA 9056A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303178 Sample Description: W3B Sampled: 07/09/2019 1110

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:09	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/12/2019 09:30	07/17/2019 18:03	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 21:53	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 21:53	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 21:53	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 21:53	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**0.24**	ug/L	0.13 *	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
Pentachlorophenol	**20**	ug/L	0.51	1.7	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 20:00	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303179 Sample Description: W21 Sampled: 07/09/2019 1240

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**2.3**	mg/L	0.12	0.40	1			07/10/2019 15:48	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:15	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2019 09:30	07/17/2019 18:37	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 22:28	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 22:28	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 22:28	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 22:28	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**0.58**	ug/L	0.13 *	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303179 Sample Description: W21 Sampled: 07/09/2019 1240

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
Pentachlorophenol	**5.0**	ug/L	0.50	1.7	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2019 13:00	07/15/2019 20:20	JJY	EPA 8270D

CT LAB Sample#: 303180 Sample Description: W11 Sampled: 07/09/2019 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**0.35**	mg/L	0.12 *	0.40	1			07/10/2019 16:07	TMG	EPA 9056A
Total Sulfate	**13**	mg/L	0.80	2.5	1			07/10/2019 16:07	TMG	EPA 9056A
Total Organic Carbon	**2.1**	mg/L	0.40	1.3	1			07/15/2019 14:30	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2019 10:47	NAH	EPA 6010C
Dissolved Manganese	**1520**	ug/L	2.2	7.3	1			07/12/2019 10:47	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:17	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2019 09:30	07/17/2019 19:11	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 23:04	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 23:04	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 23:04	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 23:04	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**9.0**	ug/L	0.68	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303180 Sample Description: W11 Sampled: 07/09/2019 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<3.0	ug/L	1.1	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.4	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.1	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.5	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	1.1	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.3	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.1	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.1	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.2	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.6	5.8	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.2	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.3	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
Pentachlorophenol	**170**	ug/L	2.6	8.9	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D
Phenol	<3.0	ug/L	1.4	5.3	5		07/12/2019 13:00	07/16/2019 12:36	JJY	EPA 8270D

CT LAB Sample#: 303181 Sample Description: W9 Sampled: 07/09/2019 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/10/2019 16:26	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:19	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2019 09:30	07/17/2019 19:44	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303181 Sample Description: W9 Sampled: 07/09/2019 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 23:39	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 23:39	TMG	WDNR GRO
Naphthalene	**1.2**	ug/L	0.90 *	2.9	1			07/11/2019 23:39	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 23:39	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
Pentachlorophenol	**1.8**	ug/L	0.48	1.6	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.96	1		07/12/2019 13:00	07/15/2019 21:01	JJY	EPA 8270D

CT LAB Sample#: 303182 Sample Description: TRIP BLANK 02 Sampled: 07/09/2019 0800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 303182 Sample Description: TRIP BLANK 02 Sampled: 07/09/2019 0800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/11/2019 16:03	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/11/2019 16:03	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/11/2019 16:03	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/11/2019 16:03	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder #: 146443
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JRB PM: BM

Ice Present (Yes) No
Temperature 5.4, 2.1
Initials JRB
Date 7/10/19 Time 1025
Cooler # 0163, 5413

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions:
VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
								Fill in Spaces with Bottles per Test												
7/9/19	0850			G	W1A	N		GW	2	1	3	1	1				8			303175
	0940				W36												8			303177
	1110				W3B												8			303178
	1240				W21												8			303179
	1335				W11									✓	1	✓	9			303180
	1430				W9				↓	↓	↓	↓	↓				8			303181
↓	0800			↓	Trip Blank 02	↓		↓			1						1			303182
									A	A	B	D	A	A	C	D			↓	

Relinquished By:	Date/Time	Relinquished By:	Date/Time
S.J. Dushek	7/9/19 1700		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		JRB	7/10/19 1035

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146534
Purchase Order #: 132526

Arrival Temperature: 5.8
Report Date: 08/02/2019
Date Received: 07/12/2019
Reprint Date: 08/02/2019

CT LAB Sample#: 304419 Sample Description: PW17 Sampled: 07/11/2019 0620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	**22**	mg/L	0.80	2.5	1			07/12/2019 14:32	TMG	EPA 9056A
Total Organic Carbon	**11**	mg/L	0.40	1.3	1			07/15/2019 14:45	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**4840**	ug/L	59	200	1			07/15/2019 17:13	NAH	EPA 6010C
Dissolved Manganese	**3930**	ug/L	2.2	7.3	1			07/15/2019 17:13	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	**260**	ug/L	34	110	1		07/18/2019 08:00	07/29/2019 18:00	AJZ	EPA 8015

CT LAB Sample#: 304420 Sample Description: FP02 Sampled: 07/11/2019 0635

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	**6.2**	mg/L	0.80	2.5	1			07/12/2019 14:52	TMG	EPA 9056A
Total Organic Carbon	**8.2**	mg/L	0.40	1.3	1			07/15/2019 14:57	TMG	EPA 9060A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304420 Sample Description: FP02 Sampled: 07/11/2019 0635

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	**15900**	ug/L	59	200	1			07/15/2019 17:19	NAH	EPA 6010C
Dissolved Manganese	**8370**	ug/L	2.2	7.3	1			07/15/2019 17:19	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	**1200**	ug/L	34	110	1		07/18/2019 08:00	07/29/2019 18:33	AJZ	EPA 8015

CT LAB Sample#: 304421 Sample Description: W73 Sampled: 07/11/2019 0725

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**4.4**	mg/L	0.12	0.40	1			07/12/2019 13:35	TMG	EPA 9056A
Total Sulfate	**19**	mg/L	0.80	2.5	1			07/12/2019 13:35	TMG	EPA 9056A
Total Organic Carbon	**3.9**	mg/L	0.40	1.3	1			07/15/2019 15:09	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**118**	ug/L	59 *	200	1			07/15/2019 17:26	NAH	EPA 6010C
Dissolved Manganese	**70.2**	ug/L	2.2	7.3	1			07/15/2019 17:26	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:22	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/18/2019 08:00	07/29/2019 19:07	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/15/2019 17:33	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/15/2019 17:33	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/15/2019 17:33	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/15/2019 17:33	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304421 Sample Description: W73 Sampled: 07/11/2019 0725

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/18/2019 08:00	07/26/2019 16:23	RPN	EPA 8270D

CT LAB Sample#: 304422 Sample Description: W6R Sampled: 07/11/2019 0825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**3.2**	mg/L	0.12	0.40	1			07/12/2019 15:11	TMG	EPA 9056A
Total Sulfate	**50**	mg/L	0.80	2.5	1			07/12/2019 15:11	TMG	EPA 9056A
Total Organic Carbon	**7.4**	mg/L	0.40	1.3	1			07/15/2019 15:20	TMG	EPA 9060A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304422 Sample Description: W6R Sampled: 07/11/2019 0825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/15/2019 17:32	NAH	EPA 6010C
Dissolved Manganese	**652**	ug/L	2.2	7.3	1			07/15/2019 17:32	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:24	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**370**	ug/L	33	110	1		07/18/2019 08:00	07/29/2019 19:41	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**120**	ug/L	2.0	6.5	5			07/16/2019 10:58	TMG	WDNR GRO
m & p-Xylene	**12**	ug/L	0.80	2.8	1			07/15/2019 18:08	TMG	WDNR GRO
Naphthalene	**17**	ug/L	0.90	2.9	1			07/15/2019 18:08	TMG	WDNR GRO
o-Xylene	**54**	ug/L	2.0	7.0	5			07/16/2019 10:58	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**150**	ug/L	6.3	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2,4,5-Trichlorophenol	<11	ug/L	11	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2,4,6-Trichlorophenol	<10	ug/L	10	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2,4-Dimethylphenol	<9.6	ug/L	9.6	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2,4-Dinitrophenol	<14	ug/L	14	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2,6-Dichlorophenol	<10	ug/L	10	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2-Methylphenol	<9.6	ug/L	9.6	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
2-Nitrophenol	<10	ug/L	10	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
3 & 4-Methylphenol	<11	ug/L	11	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<14	ug/L	14	53	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304422 Sample Description: W6R Sampled: 07/11/2019 0825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Pentachlorophenol	**2400**	ug/L	48	160	100		07/18/2019 08:00	07/26/2019 21:32	RPN	EPA 8270D
Phenol	<13	ug/L	13	48	50		07/18/2019 08:00	07/26/2019 16:44	RPN	EPA 8270D

CT LAB Sample#: 304423 Sample Description: W17 Sampled: 07/11/2019 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**1.9**	mg/L	0.12	0.40	1			07/12/2019 15:30	TMG	EPA 9056A
Total Sulfate	**10**	mg/L	0.80	2.5	1			07/12/2019 15:30	TMG	EPA 9056A
Total Organic Carbon	**1.9**	mg/L	0.40	1.3	1			07/15/2019 15:32	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/15/2019 17:39	NAH	EPA 6010C
Dissolved Manganese	**241**	ug/L	2.2	7.3	1			07/15/2019 17:39	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:26	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**390**	ug/L	33	110	1		07/18/2019 08:00	07/29/2019 20:15	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**22**	ug/L	0.40	1.3	1			07/15/2019 22:12	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/15/2019 22:12	TMG	WDNR GRO
Naphthalene	**2.7**	ug/L	0.90 *	2.9	1			07/15/2019 22:12	TMG	WDNR GRO
o-Xylene	**4.2**	ug/L	0.40	1.4	1			07/15/2019 22:12	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**3.9**	ug/L	0.27	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.47	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.43	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304423 Sample Description: W17 Sampled: 07/11/2019 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dichlorophenol	<3.0	ug/L	0.53	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.41	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.59	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.43	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.49	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.41	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.43	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.47	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.61	2.2	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.45	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.49	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
Pentachlorophenol	**77**	ug/L	1.0	3.5	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.53	2.0	2		07/18/2019 08:00	07/26/2019 17:05	RPN	EPA 8270D

CT LAB Sample#: 304424 Sample Description: W74 Sampled: 07/11/2019 0955

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/18/2019 08:00	07/29/2019 20:49	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/15/2019 18:43	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/15/2019 18:43	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/15/2019 18:43	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/15/2019 18:43	TMG	WDNR GRO
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/18/2019 08:00	07/26/2019 17:25	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304424 Sample Description: W74 Sampled: 07/11/2019 0955

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

CT LAB Sample#: 304425 Sample Description: W3A Sampled: 07/11/2019 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/12/2019 13:54	TMG	EPA 9056A
Total Sulfate	**1.1**	mg/L	0.80 *	2.5	1			07/12/2019 13:54	TMG	EPA 9056A
Total Organic Carbon	**4.6**	mg/L	0.40	1.3	1	Y		07/15/2019 15:47	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**7100**	ug/L	59	200	1			07/15/2019 17:46	NAH	EPA 6010C
Dissolved Manganese	**13200**	ug/L	2.2	7.3	1			07/15/2019 17:46	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:28	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**9300**	ug/L	33	110	1		07/18/2019 08:00	07/29/2019 21:22	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**730**	ug/L	8.0	26	20			07/15/2019 19:52	TMG	WDNR GRO
m & p-Xylene	<16	ug/L	16	56	20			07/15/2019 19:52	TMG	WDNR GRO
Naphthalene	**46**	ug/L	18 *	58	20			07/15/2019 19:52	TMG	WDNR GRO
o-Xylene	**96**	ug/L	8.0	28	20			07/15/2019 19:52	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**38**	ug/L	1.3	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	2.3	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.1	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.7	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304425 Sample Description: W3A Sampled: 07/11/2019 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	3.0	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.1	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.4	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	2.0	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.1	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	2.3	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.1	ug/L	3.1	11	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.2	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.4	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D
Pentachlorophenol	**610**	ug/L	10	35	20		07/18/2019 08:00	07/26/2019 21:52	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.7	10	10		07/18/2019 08:00	07/26/2019 17:46	RPN	EPA 8270D

CT LAB Sample#: 304426 Sample Description: W72 Sampled: 07/11/2019 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/18/2019 08:00	07/29/2019 21:56	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/15/2019 19:18	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/15/2019 19:18	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/15/2019 19:18	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/15/2019 19:18	TMG	WDNR GRO
Pentachlorophenol	<3.0	ug/L	0.48	1.6	1		07/18/2019 08:00	07/26/2019 18:06	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304427 Sample Description: TRIP BLANK 03 Sampled: 07/11/2019 0645

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/15/2019 16:58	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/15/2019 16:58	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/15/2019 16:58	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/15/2019 16:58	TMG	WDNR GRO

CT LAB Sample#: 304428 Sample Description: W2 Sampled: 07/11/2019 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**1.8**	mg/L	0.12	0.40	1			07/12/2019 16:28	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:30	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**500**	ug/L	33	110	1		07/18/2019 08:00	07/29/2019 22:30	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**370**	ug/L	8.0	26	20			07/16/2019 11:33	TMG	WDNR GRO
m & p-Xylene	<16	ug/L	16	56	20			07/16/2019 11:33	TMG	WDNR GRO
Naphthalene	**39**	ug/L	18 *	58	20			07/16/2019 11:33	TMG	WDNR GRO
o-Xylene	**39**	ug/L	8.0	28	20			07/16/2019 11:33	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**13**	ug/L	2.6 *	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2,4,5-Trichlorophenol	<4.6	ug/L	4.6	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2,4,6-Trichlorophenol	<4.2	ug/L	4.2	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2,4-Dichlorophenol	<5.3	ug/L	5.3	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304428 Sample Description: W2 Sampled: 07/11/2019 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dimethylphenol	<4.0	ug/L	4.0	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2,4-Dinitrophenol	<5.9	ug/L	5.9	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2,6-Dichlorophenol	<4.2	ug/L	4.2	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2-Chlorophenol	<4.8	ug/L	4.8	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2-Methylphenol	<4.0	ug/L	4.0	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
2-Nitrophenol	<4.2	ug/L	4.2	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
3 & 4-Methylphenol	<4.6	ug/L	4.6	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<6.1	ug/L	6.1	22	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
4-Chloro-3-methylphenol	<4.4	ug/L	4.4	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
4-Nitrophenol	<4.8	ug/L	4.8	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
Pentachlorophenol	**280**	ug/L	10	34	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D
Phenol	<5.3	ug/L	5.3	20	20		07/18/2019 08:00	07/26/2019 18:27	RPN	EPA 8270D

CT LAB Sample#: 304429 Sample Description: W2 DUP Sampled: 07/11/2019 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**1.9**	mg/L	0.12	0.40	1			07/12/2019 14:13	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2019 14:30	07/22/2019 11:32	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**520**	ug/L	33	110	1		07/18/2019 08:00	07/30/2019 00:11	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**380**	ug/L	8.0	26	20			07/16/2019 12:08	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 304429 Sample Description: W2 DUP Sampled: 07/11/2019 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<16	ug/L	16	56	20			07/16/2019 12:08	TMG	WDNR GRO
Naphthalene	**40**	ug/L	18 *	58	20			07/16/2019 12:08	TMG	WDNR GRO
o-Xylene	**43**	ug/L	8.0	28	20			07/16/2019 12:08	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**15**	ug/L	2.7 *	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2,4,5-Trichlorophenol	<4.7	ug/L	4.7	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2,4,6-Trichlorophenol	<4.3	ug/L	4.3	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2,4-Dichlorophenol	<5.3	ug/L	5.3	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2,4-Dimethylphenol	<4.1	ug/L	4.1	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2,4-Dinitrophenol	<5.9	ug/L	5.9	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2,6-Dichlorophenol	<4.3	ug/L	4.3	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2-Chlorophenol	<4.9	ug/L	4.9	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2-Methylphenol	<4.1	ug/L	4.1	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
2-Nitrophenol	<4.3	ug/L	4.3	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
3 & 4-Methylphenol	<4.7	ug/L	4.7	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<6.1	ug/L	6.1	22	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
4-Chloro-3-methylphenol	<4.5	ug/L	4.5	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
4-Nitrophenol	<4.9	ug/L	4.9	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
Pentachlorophenol	**260**	ug/L	10	35	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D
Phenol	<5.3	ug/L	5.3	20	20		07/18/2019 08:00	07/26/2019 18:47	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003 **Chain of Custody** Page 1 of 2

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder #: 146534
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JRB PM: BM

Present (Yes) No
Temperature 5.8
Initials CTB
Date 7/12/19 Time 10:20
Cooler # 6353

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test											
7/11/19	0620			G	PW17	N		GW		1				1	1	1	4			304419
	0635				FP02					1				1	1	1	4			304420
	0725				W73				2	1	3	1	1	✓	1	✓	9			304421
	0825				W6R					1				✓	1	✓	9			304422
	0915				W17					1				✓	1	✓	9			304423
	0955				W74				2*	1	3						6			*PCP only 304424
	1040				W3A				2	1		1	1	✓	1	✓	9			304425
	1330				W72				2*	1	3						6			*PCP only 304426
↓	0645			↓	Trip Blank 03	↓		↓			1						1			304427
									A	A	B	D	A	A	C	D			↓	

Client Special Instructions:
VOC's – Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
S.J. Dushek	7/11/19 1600		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
JRB	7/12/19 1045	George Barwanger	7/12/19 10:20

**Matrix
S–Soil A–Air Slg–Sludge M–Misc Waste
GW–Groundwater SW–Surface Water
WW–Wastewater DW–Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Rev. 3/2003

Chain of Custody

Page 2 of 2

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

146534

Place Header Sticker Here:
Lab Use Only

Ice Present (Yes) No
Temperature 5.8°C
Initials CltB
Date 07/12/19 Time 10:20
Cooler # 6353

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
								Fill in Spaces with Bottles per Test												
7/11/19	1440			G	W2	N		GW	2	1	3	1	1				8			304428
↓	1440			↓	W2 Dup	↓		↓	2	1	3	1	1				8			304429
									A	A	B	D	A	A	C	D				

Client Special Instructions:
VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene.
Metals are filtered.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
T.J. Dushek	7/11/19 1600		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
JRB	7/12/19 1045		

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

**Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146586
Purchase Order #: 132526

Arrival Temperature: 4.9
Report Date: 08/02/2019
Date Received: 07/16/2019
Reprint Date: 08/02/2019

CT LAB Sample#: 305392 Sample Description: W71 Sampled: 07/15/2019 0750

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/18/2019 08:00	07/30/2019 00:44	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 14:57	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 14:57	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 14:57	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 14:57	TMG	WDNR GRO
Pentachlorophenol	**2.1**	ug/L	0.51	1.7	1		07/18/2019 08:00	07/26/2019 19:08	RPN	EPA 8270D

CT LAB Sample#: 305393 Sample Description: W26R Sampled: 07/15/2019 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**0.54**	mg/L	0.12	0.40	1			07/16/2019 21:29	TMG	EPA 9056A
Total Sulfate	**18**	mg/L	0.80	2.5	1			07/16/2019 21:29	TMG	EPA 9056A
Total Organic Carbon	**8.1**	mg/L	0.40	1.3	1			07/18/2019 12:04	TMG	EPA 9060A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305393 Sample Description: W26R Sampled: 07/15/2019 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	**164**	ug/L	59 *	200	1			07/18/2019 22:42	NAH	EPA 6010C
Dissolved Manganese	**4270**	ug/L	2.2	7.3	1			07/18/2019 22:42	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/17/2019 13:14	07/22/2019 11:50	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**760**	ug/L	33	110	1		07/18/2019 08:00	07/30/2019 01:18	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**180**	ug/L	4.0	13	10			07/23/2019 14:02	TMG	WDNR GRO
m & p-Xylene	**7.7**	ug/L	0.80	2.8	1			07/22/2019 15:32	TMG	WDNR GRO
Naphthalene	**4.9**	ug/L	0.90	2.9	1			07/22/2019 15:32	TMG	WDNR GRO
o-Xylene	**25**	ug/L	0.40	1.4	1			07/22/2019 15:32	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**120**	ug/L	14	110	100		07/18/2019 08:00	07/30/2019 10:12	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.26	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.23	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.29	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.22	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.32	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.23	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.27	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.22	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.23	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.26	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.33	1.2	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.24	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.27	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305393 Sample Description: W26R Sampled: 07/15/2019 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Pentachlorophenol	**1800**	ug/L	56	190	100		07/18/2019 08:00	07/30/2019 10:12	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.29	1.1	1		07/18/2019 08:00	07/26/2019 19:28	RPN	EPA 8270D

CT LAB Sample#: 305394 Sample Description: W10B Sampled: 07/15/2019 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**0.51**	mg/L	0.12	0.40	1			07/16/2019 21:48	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/17/2019 13:14	07/22/2019 11:56	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/18/2019 08:00	07/30/2019 01:51	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**5.9**	ug/L	0.40	1.3	1			07/23/2019 11:08	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/23/2019 11:08	TMG	WDNR GRO
Naphthalene	**0.94**	ug/L	0.90 *	2.9	1			07/23/2019 11:08	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/23/2019 11:08	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**1.5**	ug/L	0.13	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305394 Sample Description: W10B Sampled: 07/15/2019 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
Pentachlorophenol	**27**	ug/L	0.51	1.7	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/18/2019 08:00	07/26/2019 19:49	RPN	EPA 8270D

CT LAB Sample#: 305395 Sample Description: W10A Sampled: 07/15/2019 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/16/2019 22:07	TMG	EPA 9056A
Total Sulfate	**7.2**	mg/L	0.80	2.5	1			07/16/2019 22:07	TMG	EPA 9056A
Total Organic Carbon	**7.0**	mg/L	0.40	1.3	1			07/18/2019 13:00	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**1370**	ug/L	59	200	1			07/18/2019 22:48	NAH	EPA 6010C
Dissolved Manganese	**3000**	ug/L	2.2	7.3	1			07/18/2019 22:48	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/17/2019 13:14	07/22/2019 11:59	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**870**	ug/L	33	110	1		07/18/2019 08:00	07/30/2019 02:24	AJZ	EPA 8015

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305395 Sample Description: W10A Sampled: 07/15/2019 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	**580**	ug/L	8.0	26	20			07/22/2019 19:01	TMG	WDNR GRO
m & p-Xylene	<16	ug/L	16	56	20			07/22/2019 19:01	TMG	WDNR GRO
Naphthalene	**26**	ug/L	18 *	58	20			07/22/2019 19:01	TMG	WDNR GRO
o-Xylene	**76**	ug/L	8.0	28	20			07/22/2019 19:01	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**26**	ug/L	6.6 *	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2,6-Dichlorophenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2-Methylphenol	<10	ug/L	10	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
2-Nitrophenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
3 & 4-Methylphenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	56	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
Pentachlorophenol	**610**	ug/L	26	87	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D
Phenol	<13	ug/L	13	51	50		07/18/2019 08:00	07/26/2019 20:10	RPN	EPA 8270D

CT LAB Sample#: 305396 Sample Description: W10A DUP Sampled: 07/15/2019 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305396 Sample Description: W10A DUP Sampled: 07/15/2019 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/16/2019 22:27	TMG	EPA 9056A
Total Sulfate	**7.3**	mg/L	0.80	2.5	1			07/16/2019 22:27	TMG	EPA 9056A
Total Organic Carbon	**7.1**	mg/L	0.40	1.3	1			07/18/2019 13:49	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**1390**	ug/L	59	200	1			07/18/2019 22:55	NAH	EPA 6010C
Dissolved Manganese	**3870**	ug/L	2.2	7.3	1			07/18/2019 22:55	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/17/2019 13:14	07/22/2019 12:01	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**820**	ug/L	34	110	1		07/18/2019 08:00	07/30/2019 02:58	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**610**	ug/L	8.0	26	20			07/22/2019 19:36	TMG	WDNR GRO
m & p-Xylene	<16	ug/L	16	56	20			07/22/2019 19:36	TMG	WDNR GRO
Naphthalene	**26**	ug/L	18 *	58	20			07/22/2019 19:36	TMG	WDNR GRO
o-Xylene	**79**	ug/L	8.0	28	20			07/22/2019 19:36	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**52**	ug/L	6.6	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2,6-Dichlorophenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2-Methylphenol	<10	ug/L	10	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
2-Nitrophenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305396 Sample Description: W10A DUP Sampled: 07/15/2019 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3 & 4-Methylphenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	56	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
Pentachlorophenol	**740**	ug/L	25	86	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D
Phenol	<13	ug/L	13	51	50		07/18/2019 08:00	07/26/2019 20:30	RPN	EPA 8270D

CT LAB Sample#: 305397 Sample Description: W41 Sampled: 07/15/2019 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**0.36**	mg/L	0.12 *	0.40	1			07/16/2019 22:46	TMG	EPA 9056A
Total Sulfate	**7.9**	mg/L	0.80	2.5	1			07/16/2019 22:46	TMG	EPA 9056A
Total Organic Carbon	**7.7**	mg/L	0.40	1.3	1			07/18/2019 14:03	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**6070**	ug/L	59	200	1			07/18/2019 23:01	NAH	EPA 6010C
Dissolved Manganese	**13700**	ug/L	2.2	7.3	1			07/18/2019 23:01	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/17/2019 13:14	07/22/2019 12:07	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**680**	ug/L	33	110	1		07/18/2019 08:00	07/30/2019 03:31	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**310**	ug/L	4.0	13	10			07/22/2019 20:11	TMG	WDNR GRO
m & p-Xylene	<8.0	ug/L	8.0	28	10			07/22/2019 20:11	TMG	WDNR GRO
Naphthalene	**38**	ug/L	9.0	29	10			07/22/2019 20:11	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305397 Sample Description: W41 Sampled: 07/15/2019 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
o-Xylene	**45**	ug/L	4.0	14	10			07/22/2019 20:11	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**26**	ug/L	13 *	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
2-Nitrophenol	<21	ug/L	21	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
Pentachlorophenol	**670**	ug/L	51	170	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D
Phenol	<26	ug/L	26	100	100		07/18/2019 08:00	07/26/2019 20:51	RPN	EPA 8270D

CT LAB Sample#: 305398 Sample Description: W33 Sampled: 07/15/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**2.1**	mg/L	0.12	0.40	1			07/16/2019 23:05	TMG	EPA 9056A
Total Sulfate	**7.3**	mg/L	0.80	2.5	1			07/16/2019 23:05	TMG	EPA 9056A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305398 Sample Description: W33 Sampled: 07/15/2019 1400

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Organic Carbon	**4.6**	mg/L	0.40		1.3	1			07/18/2019 14:18	TMG	EPA 9060A
Metals Results											
Dissolved Iron	<59	ug/L	59		200	1			07/18/2019 23:08	NAH	EPA 6010C
Dissolved Manganese	**36.5**	ug/L	2.2		7.3	1			07/18/2019 23:08	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020		0.066	1		07/17/2019 13:14	07/22/2019 12:09	MDS	EPA 7470A
Organic Results											
TPH as Mineral Spirits	<34	ug/L	34		110	1		07/18/2019 08:00	07/30/2019 04:05	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**8.5**	ug/L	0.40		1.3	1			07/23/2019 11:43	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80		2.8	1			07/23/2019 11:43	TMG	WDNR GRO
Naphthalene	**1.6**	ug/L	0.90	*	2.9	1			07/23/2019 11:43	TMG	WDNR GRO
o-Xylene	**5.1**	ug/L	0.40		1.4	1			07/23/2019 11:43	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**30**	ug/L	26	*	200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2,4,5-Trichlorophenol	<46	ug/L	46		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2,4,6-Trichlorophenol	<42	ug/L	42		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2,4-Dichlorophenol	<53	ug/L	53		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2,4-Dimethylphenol	<40	ug/L	40		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2,4-Dinitrophenol	<59	ug/L	59		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2,6-Dichlorophenol	<42	ug/L	42		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2-Chlorophenol	<48	ug/L	48		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2-Methylphenol	<40	ug/L	40		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
2-Nitrophenol	<42	ug/L	42		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
3 & 4-Methylphenol	<46	ug/L	46		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<61	ug/L	61		220	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
4-Chloro-3-methylphenol	<44	ug/L	44		200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305398 Sample Description: W33 Sampled: 07/15/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<48	ug/L	48	200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
Pentachlorophenol	**1500**	ug/L	100	340	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D
Phenol	<53	ug/L	53	200	200		07/18/2019 08:00	07/26/2019 21:11	RPN	EPA 8270D

CT LAB Sample#: 305399 Sample Description: TRIP BLANK 04 Sampled: 07/15/2019 0805

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 13:12	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 13:12	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 13:12	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 13:12	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

CTLaboratories
30 Lange Court, Baraboo, WI 53913
08-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder # 146586
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JRB PM: BM

ce Present (Yes) No
emperature 4.9, 2.1
nitials DL
Date 7/16/19 Time 1000
Cooler # 5355/61561

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other

Turnaround Time
(Normal) RUSH* Date Needed
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
					Fill in Spaces with Bottles per Test															
7/15/19	0750			G	W71	N		GW	2*	1	3						6			*PCP only 305392
	0840				W26R				2	1	3	1	1	✓	1	✓	9			305393
	1000				W10B				2	1	3	1	1				8			305394
	1100				W10A				2	1	3	1	1	✓	1	✓	9			305395
	1100				W10A Dup				2	1	3	1	1	✓	1	✓	9			305396
	1235				W41				2	1	3	1	1	✓	1	✓	9			305397
	1400				W33				2	1	3	1	1	✓	1	✓	9			305398
↓	0805			↓	Trip Blank 04	↓		↓			1						1			305399
									A	A	B	D	A	A	C	D			↓	

Client Special Instructions:
VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
J. Dushek	7/15/19 1600		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		JRB	7/16/19 1039

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other

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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146625
Purchase Order #: 132526

Arrival Temperature: 3.9
Report Date: 08/02/2019
Date Received: 07/17/2019
Reprint Date: 08/02/2019

CT LAB Sample#: 305760 Sample Description: W13 Sampled: 07/16/2019 0845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**1.9**	mg/L	0.12	0.40	1			07/17/2019 13:58	TMG	EPA 9056A
Total Sulfate	**42**	mg/L	0.80	2.5	1			07/17/2019 13:58	TMG	EPA 9056A
Total Organic Carbon	**2.3**	mg/L	0.40	1.3	1			07/18/2019 14:33	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**180**	ug/L	59 *	200	1			07/18/2019 23:15	NAH	EPA 6010C
Dissolved Manganese	**8.1**	ug/L	2.2	7.3	1			07/18/2019 23:15	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 09:54	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/23/2019 09:00	07/30/2019 13:41	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 16:42	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 16:42	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 16:42	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 16:42	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305760 Sample Description: W13 Sampled: 07/16/2019 0845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1	Q	07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/23/2019 09:00	07/30/2019 10:43	RPN	EPA 8270D

CT LAB Sample#: 305761 Sample Description: W29R Sampled: 07/16/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**0.47**	mg/L	0.12	0.40	1			07/17/2019 14:17	TMG	EPA 9056A
Total Sulfate	**14**	mg/L	0.80	2.5	1			07/17/2019 14:17	TMG	EPA 9056A
Total Organic Carbon	**11**	mg/L	0.40	1.3	1			07/18/2019 14:48	TMG	EPA 9060A
Metals Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305761 Sample Description: W29R Sampled: 07/16/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	<59	ug/L	59	200	1			07/18/2019 23:22	NAH	EPA 6010C
Dissolved Manganese	**103**	ug/L	2.2	7.3	1			07/18/2019 23:22	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 10:04	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/23/2019 09:00	07/30/2019 14:15	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 17:17	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 17:17	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 17:17	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 17:17	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**87**	ug/L	6.5	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	50	50	Q	07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2,6-Dichlorophenol	<11	ug/L	11	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2-Methylphenol	<10	ug/L	10	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
2-Nitrophenol	<11	ug/L	11	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
3 & 4-Methylphenol	<12	ug/L	12	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	55	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D
Pentachlorophenol	**410**	ug/L	25	85	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305761 Sample Description: W29R Sampled: 07/16/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<13	ug/L	13	50	50		07/23/2019 09:00	07/30/2019 11:24	RPN	EPA 8270D

CT LAB Sample#: 305762 Sample Description: BLANK 01 Sampled: 07/16/2019 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/17/2019 14:36	TMG	EPA 9056A
Total Sulfate	<0.80	mg/L	0.80	2.5	1			07/17/2019 14:36	TMG	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.3	1			07/18/2019 15:01	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/18/2019 23:46	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/18/2019 23:46	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 10:06	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/23/2019 09:00	07/30/2019 14:49	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 17:52	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 17:52	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 17:52	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 17:52	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305762 Sample Description: BLANK 01 Sampled: 07/16/2019 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1	Q	07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.50	1.7	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/23/2019 09:00	07/30/2019 11:04	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Folder #: 146625
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JRB PM BM

Ice Present (Yes) No
Temperature 3.2, 3.9
Initials
Date 7/17/19 Time 0815
Cooler # 5968, 6286

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other

Turnaround Time
(Normal) RUSH* Date Needed
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test											
7/16/19	0845			G	W13	N		GW	2	1	3	1	1	✓	1	✓	9			305760
	1245				W29R				2	1	3	1	1	✓	1	✓	9			305761
↓	1340			↓	Blank 01	↓		↓	2	1	3	1	1	✓	1	✓	9			305762
									A	A	B	D	A	A	C	D			↓	

Client Special Instructions:
VOC's – Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene.
Metals are filtered.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
J. J. Dushek	7/16/19 1600		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		URB	7/17/19 1026

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other

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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146626
Purchase Order #: 132526

Arrival Temperature: 3.9
Report Date: 08/02/2019
Date Received: 07/17/2019
Reprint Date: 08/02/2019

CT LAB Sample#: 305773 Sample Description: DFOMW5 Sampled: 07/16/2019 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/23/2019 09:00	08/01/2019 10:37	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 18:27	TMG	EPA 602
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 18:27	TMG	EPA 602
Naphthalene	**0.97**	ug/L	0.90 *	2.9	1			07/22/2019 18:27	TMG	EPA 602
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 18:27	TMG	EPA 602
Pentachlorophenol	**2.0**	ug/L	0.50	1.7	1		07/23/2019 09:30	07/30/2019 18:55	RPN	EPA 8270D

CT LAB Sample#: 305804 Sample Description: DFOMW12 Sampled: 07/16/2019 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	**400**	ug/L	51	170	100		07/23/2019 09:30	07/30/2019 19:35	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 305808 Sample Description: DFOMW12 DUP Sampled: 07/16/2019 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	**390**	ug/L	51	170	100		07/23/2019 09:30	07/30/2019 19:55	RPN	EPA 8270D

CT LAB Sample#: 305809 Sample Description: DFOMW11 Sampled: 07/16/2019 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	**240**	ug/L	9.7	33	20		07/23/2019 09:30	07/30/2019 18:35	RPN	EPA 8270D

CT LAB Sample#: 305810 Sample Description: TRIP BLANK 05 Sampled: 07/16/2019 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 13:47	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 13:47	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 13:47	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 13:47	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page ___ / ___ of ___

Company Name: TRC
Project Contact: Bruce Iverson
Telephone:
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dwshek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other ___

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder #: 146626
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JRB PM: BM

e Present (Yes) No
mperature 32, 3.9
itials
te 7/17/19 Time 1015
ooler # 5 968, 6284

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed ___
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number ___

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Pentachlorophenol (8270)	VOC's	TPH					Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
									Fill in Spaces with Bottles per Test										
7/16/19	0755			G	DFOMW5	N		GW	2	3	1					6			305773
	0945				DFOMW12				2							2			305804
	0945				DFOMW12 Dup				2							2			305808
↓	1040			↓	DFOMW11	↓		↓	2							2			305809
↓	0810			↓	Trip Blank 05	↓		↓	1							1			305810
									A	B	A								

Client Special Instructions:
VOC's – Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene.

Relinquished By:	Date/Time	Relinquished By:	Date/Time
S. J. Dwshek	7/16/19 1600		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		JRB	7/17/19 1029

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other ___

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ANALYTICAL REPORT

TRC ENVIRONMENTAL
BRUCE IVERSON
708 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: WAULECO
Project Phase: WAUSAU, WI
Contract #: 2399
Project #: 189597.0008
Folder #: 146704
Purchase Order #: 132526

Arrival Temperature: 4.9
Report Date: 08/02/2019
Date Received: 07/19/2019
Reprint Date: 08/02/2019

CT LAB Sample#: 306780 Sample Description: W27 Sampled: 07/18/2019 0805

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2019 12:43	TMG	EPA 9056A
Total Sulfate	**20**	mg/L	0.80	2.5	1			07/19/2019 12:43	TMG	EPA 9056A
Total Organic Carbon	**44**	mg/L	0.40	1.3	1			07/29/2019 13:58	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**3490**	ug/L	59	200	1			07/24/2019 23:36	NAH	EPA 6010C
Dissolved Manganese	**10300**	ug/L	2.2	7.3	1			07/24/2019 23:36	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 10:26	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**3200**	ug/L	33	110	1		07/23/2019 09:00	07/30/2019 15:23	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**150**	ug/L	2.0	6.5	5			07/23/2019 12:53	TMG	WDNR GRO
m & p-Xylene	**6.3**	ug/L	4.0 *	14	5			07/23/2019 12:53	TMG	WDNR GRO
Naphthalene	**28**	ug/L	4.5	15	5			07/23/2019 12:53	TMG	WDNR GRO
o-Xylene	**20**	ug/L	2.0	7.0	5			07/23/2019 12:53	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**530**	ug/L	27	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 306780 Sample Description: W27 Sampled: 07/18/2019 0805

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<47	ug/L	47	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2,4,6-Trichlorophenol	<43	ug/L	43	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2,4-Dichlorophenol	<53	ug/L	53	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2,4-Dimethylphenol	<41	ug/L	41	200	200	Q	07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2,4-Dinitrophenol	<59	ug/L	59	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2,6-Dichlorophenol	<43	ug/L	43	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2-Chlorophenol	<49	ug/L	49	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2-Methylphenol	<41	ug/L	41	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
2-Nitrophenol	<43	ug/L	43	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
3 & 4-Methylphenol	<47	ug/L	47	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<61	ug/L	61	220	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
4-Chloro-3-methylphenol	<45	ug/L	45	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
4-Nitrophenol	<49	ug/L	49	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
Pentachlorophenol	**4900**	ug/L	100	350	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D
Phenol	<53	ug/L	53	200	200		07/23/2019 09:00	07/30/2019 13:47	RPN	EPA 8270D

CT LAB Sample#: 306782 Sample Description: W27 DUP Sampled: 07/18/2019 0805

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2019 13:02	TMG	EPA 9056A
Total Sulfate	**21**	mg/L	0.80	2.5	1			07/19/2019 13:02	TMG	EPA 9056A
Total Organic Carbon	**46**	mg/L	0.40	1.3	1			07/29/2019 14:11	TMG	EPA 9060A
Metals Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 306782 Sample Description: W27 DUP Sampled: 07/18/2019 0805

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	**3440**	ug/L	59	200	1			07/24/2019 23:42	NAH	EPA 6010C
Dissolved Manganese	**9900**	ug/L	2.2	7.3	1			07/24/2019 23:42	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 10:28	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	**3000**	ug/L	34	110	1		07/23/2019 09:00	07/30/2019 15:56	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**110**	ug/L	2.0	6.5	5			07/23/2019 13:27	TMG	WDNR GRO
m & p-Xylene	<4.0	ug/L	4.0	14	5			07/23/2019 13:27	TMG	WDNR GRO
Naphthalene	**26**	ug/L	4.5	15	5			07/23/2019 13:27	TMG	WDNR GRO
o-Xylene	**13**	ug/L	2.0	7.0	5			07/23/2019 13:27	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**490**	ug/L	26	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2,4,5-Trichlorophenol	<46	ug/L	46	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2,4,6-Trichlorophenol	<42	ug/L	42	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2,4-Dichlorophenol	<53	ug/L	53	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2,4-Dimethylphenol	<40	ug/L	40	200	200	Q	07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2,4-Dinitrophenol	<59	ug/L	59	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2,6-Dichlorophenol	<42	ug/L	42	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2-Chlorophenol	<48	ug/L	48	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2-Methylphenol	<40	ug/L	40	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
2-Nitrophenol	<42	ug/L	42	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
3 & 4-Methylphenol	<46	ug/L	46	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<61	ug/L	61	220	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
4-Chloro-3-methylphenol	<44	ug/L	44	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
4-Nitrophenol	<48	ug/L	48	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D
Pentachlorophenol	**4700**	ug/L	100	340	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 306782 Sample Description: W27 DUP Sampled: 07/18/2019 0805

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<53	ug/L	53	200	200		07/23/2019 09:00	07/30/2019 14:07	RPN	EPA 8270D

CT LAB Sample#: 306783 Sample Description: W22 Sampled: 07/18/2019 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	**6.0**	mg/L	0.60	2.0	5			07/19/2019 17:31	TMG	EPA 9056A
Total Sulfate	**32**	mg/L	0.80	2.5	1			07/19/2019 13:21	TMG	EPA 9056A
Total Organic Carbon	**4.6**	mg/L	0.40	1.3	1	Y		07/29/2019 14:24	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/24/2019 23:49	NAH	EPA 6010C
Dissolved Manganese	**6.7**	ug/L	2.2 *	7.3	1			07/24/2019 23:49	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 10:30	MDS	EPA 7470A
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/23/2019 09:00	07/30/2019 16:30	AJZ	EPA 8015
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/23/2019 12:18	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/23/2019 12:18	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/23/2019 12:18	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/23/2019 12:18	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**1.0**	ug/L	0.13	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 306783 Sample Description: W22 Sampled: 07/18/2019 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1	Q	07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
Pentachlorophenol	**13**	ug/L	0.51	1.7	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/23/2019 09:00	07/30/2019 15:08	RPN	EPA 8270D

CT LAB Sample#: 306784 Sample Description: W40R Sampled: 07/18/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2019 13:40	TMG	EPA 9056A
Total Sulfate	**16**	mg/L	0.80	2.5	1			07/19/2019 13:40	TMG	EPA 9056A
Total Organic Carbon	**8.8**	mg/L	0.40	1.3	1			07/29/2019 15:17	TMG	EPA 9060A
Metals Results										
Dissolved Iron	**109**	ug/L	59 *	200	1			07/24/2019 23:56	NAH	EPA 6010C
Dissolved Manganese	**6580**	ug/L	2.2	7.3	1	M		07/24/2019 23:56	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/22/2019 13:40	07/25/2019 10:32	MDS	EPA 7470A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 306784 Sample Description: W40R Sampled: 07/18/2019 1030

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results											
TPH as Mineral Spirits	**31000**	ug/L	330		1100	10		07/23/2019 09:00	08/01/2019 12:52	AJZ	EPA 8015
1,2,4-Trimethylbenzene	**1200**	ug/L	20		65	50			07/23/2019 14:37	TMG	WDNR GRO
m & p-Xylene	**31**	ug/L	16	*	56	20			07/22/2019 23:06	TMG	WDNR GRO
Naphthalene	**150**	ug/L	18		58	20			07/22/2019 23:06	TMG	WDNR GRO
o-Xylene	**270**	ug/L	8.0		28	20			07/22/2019 23:06	TMG	WDNR GRO
2,3,4,6-Tetrachlorophenol	**120**	ug/L	13		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20		100	100	Q	07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
2-Nitrophenol	<21	ug/L	21		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30		110	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
Pentachlorophenol	**2000**	ug/L	51		170	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D
Phenol	<26	ug/L	26		100	100		07/23/2019 09:00	07/30/2019 14:48	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 306785 Sample Description: TRIP BLANK 06 Sampled: 07/18/2019 0720

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2019 14:22	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2019 14:22	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2019 14:22	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2019 14:22	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0008
Project Location: Wausau, WI
Sampled By: Tom Dushek

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

[illegible] Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder # 146704
Company: TRC ENVIRONMENTA
Project: WAULECO
Logged By: JRB PM: BM

Present (Yes) No
Temperature 4.9 #22
Initials RJ
Date 7/19/19 Time 10:20
Cooler # 3565, 6318

Mail Report To: Bruce Iverson
Company: TRC
Address: 708 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:
PO No. 132526

Contract No.

Turnaround Time
(Normal) RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
								Fill in Spaces with Bottles per Test												
7/18/19	0805			G	W27	N		GW	2	1	3	1	1	✓	1	✓	9			306780
↓	0805			↓	W27 Dup	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	9			306782
	0900				W22												9			306783
	1030				W40 R				↓	↓	↓	↓	↓	↓	↓	↓	9			306784
↓	0720			↓	Trip Blank 06	↓		↓			1						1			306785
									A	A	B	D	A	A	C	D			↓	

Client Special Instructions:
VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

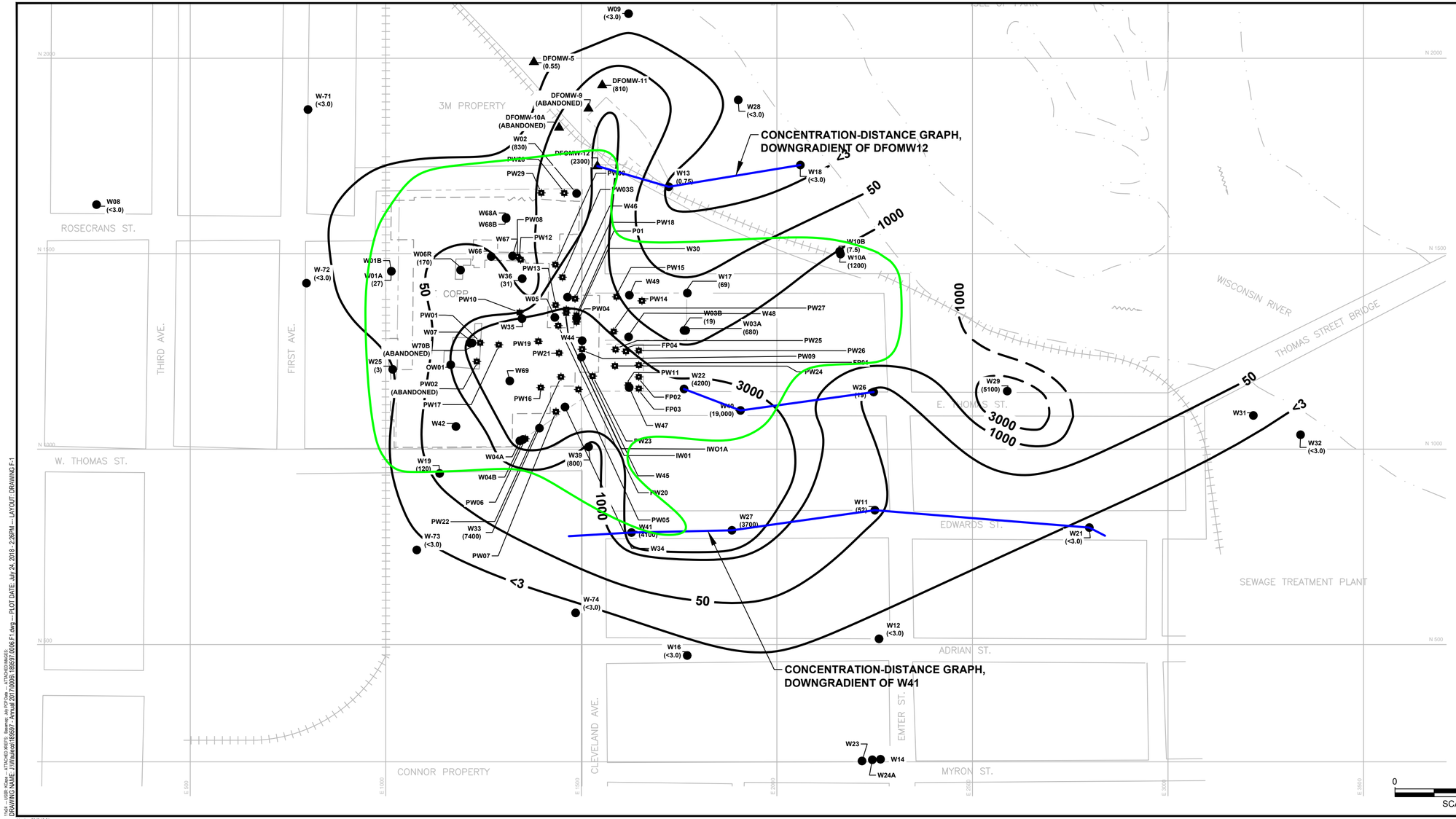
Relinquished By:	Date/Time	Relinquished By:	Date/Time
J. J Dushek	7/18/19 1600		7/19/19 1020
Received by:	**Date/Time**	**Received by:**	**Date/Time**
			7/19/19 1020

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

APPENDIX E

PCP CONCENTRATION DISTANCE GRAPHS



LEGEND

- W17 (60) — MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
- PW12 — EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 — 3M GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE
- 50 — PCP ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)
- PROFILE LINES FOR CONCENTRATION-DISTANCE GRAPHS
- OUTLINE OF RESIDUAL PHASE PRODUCT

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18 20, 2017.
3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
5. THE NR140 ENFORCEMENT STANDARD (ES) FOR PCP IS 1.0 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR PCP IS 0.10 ug/L.
6. 3M WELLS DOFMW-9 AND DOFMW-10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
7. OUTLINE OF RESIDUAL PHASE PRODUCT IS FROM FIGURE 1 OF THE SEPTEMBER 2015 GROUNDWATER REMEDIAL ACTION OPTIONS REPORT.

PROJECT:
WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

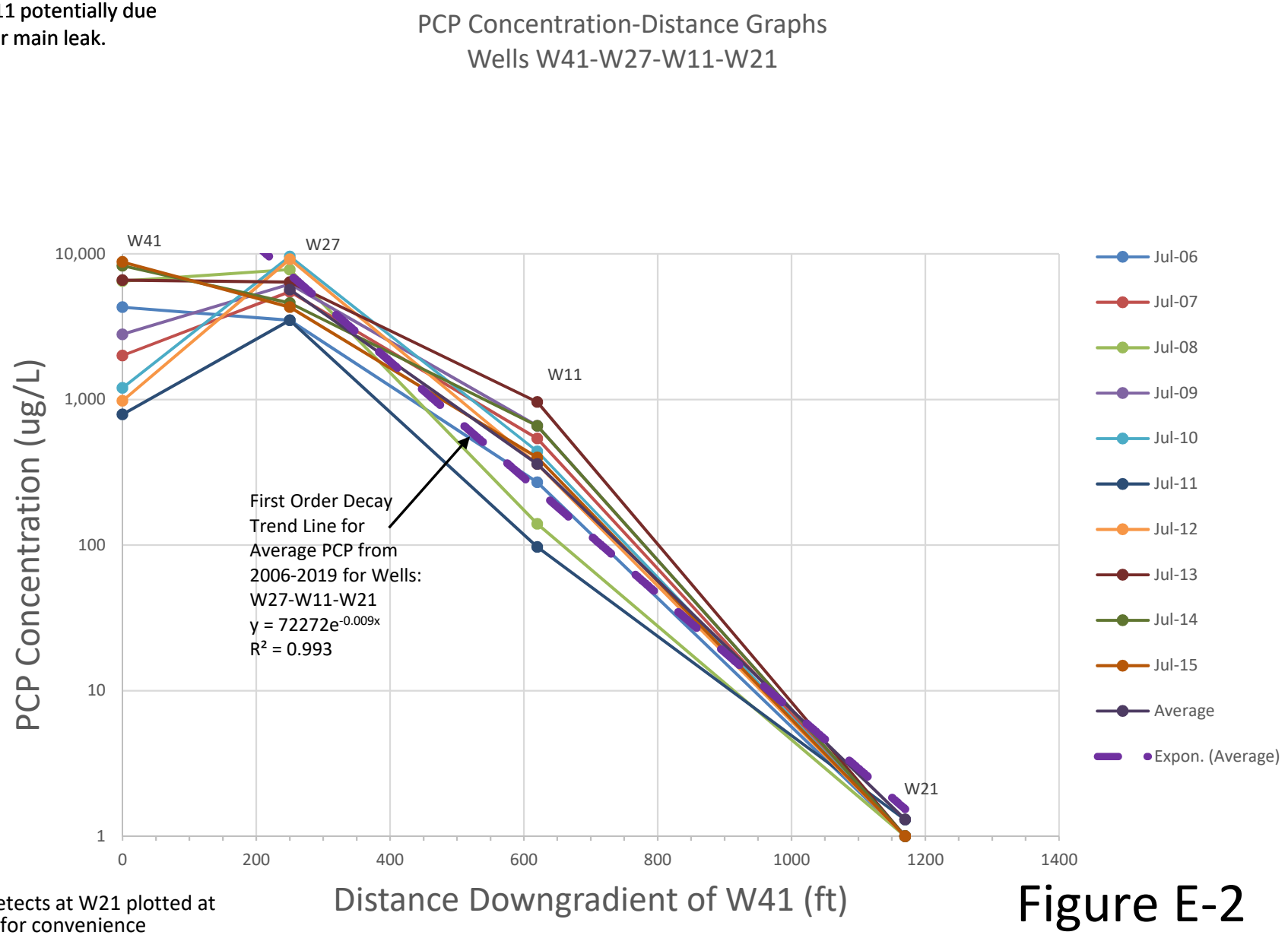
TITLE: **PCP ISOCONCENTRATION MAP WITH CONCENTRATION-DISTANCE PROFILES (JULY 2017)**

DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON		**DRAWING E-1**
DATE:	JULY 2018		

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 189597.0006.F1.dwg

Higher concentration in July 2011 potentially due to water main leak.



Non-detects at W21 plotted at 1 ug/L for convenience

Figure E-2

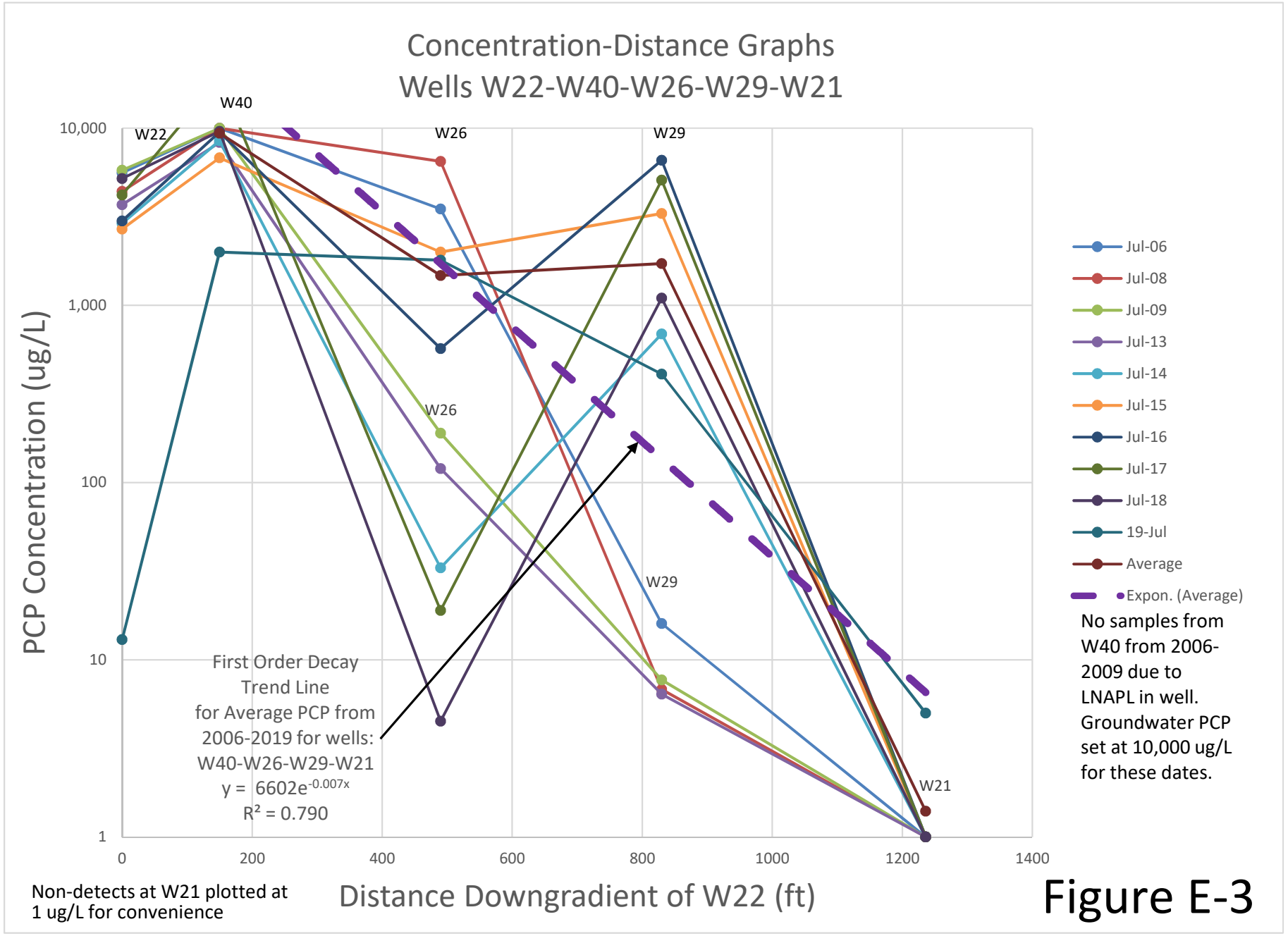

Concentration-Distance Graphs
Wells W22-W40-W26-W29-W21
W40
W22
W26
W29
W26
W29
W21
10,000
1,000
100
10
1
PCP Concentration (ug/L)
0
200
400
600
800
1000
1200
1400
Distance Downgradient of W22 (ft)
First Order Decay
Trend Line
for Average PCP from
2006-2019 for wells:
W40-W26-W29-W21
y = 6602e-0.007x
R² = 0.790
Jul-06
Jul-08
Jul-09
Jul-13
Jul-14
Jul-15
Jul-16
Jul-17
Jul-18
19-Jul
Average
Expon. (Average)
No samples from W40 from 2006-2009 due to LNAPL in well. Groundwater PCP set at 10,000 ug/L for these dates.
Non-detects at W21 plotted at 1 ug/L for convenience

Figure E-3

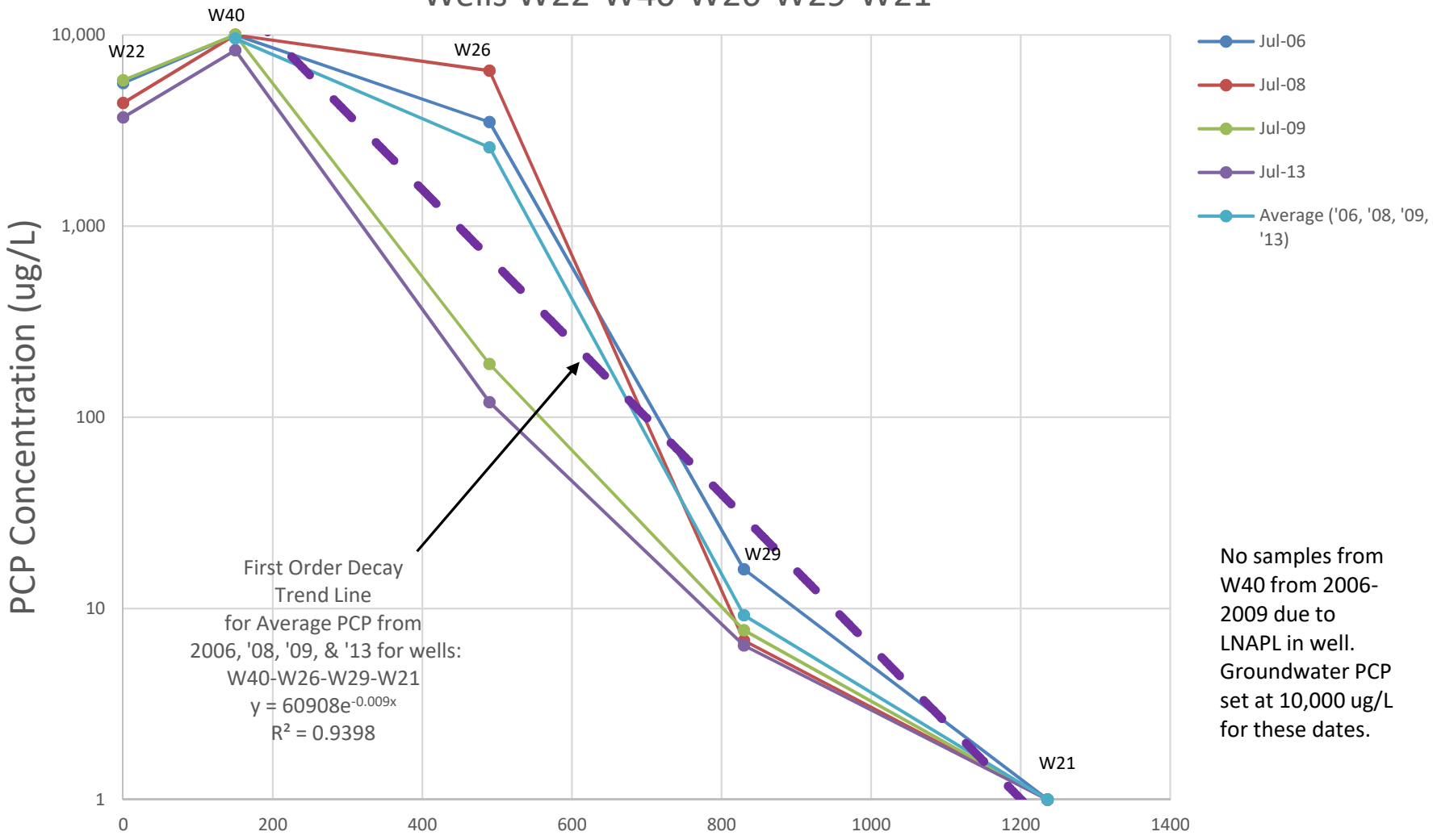
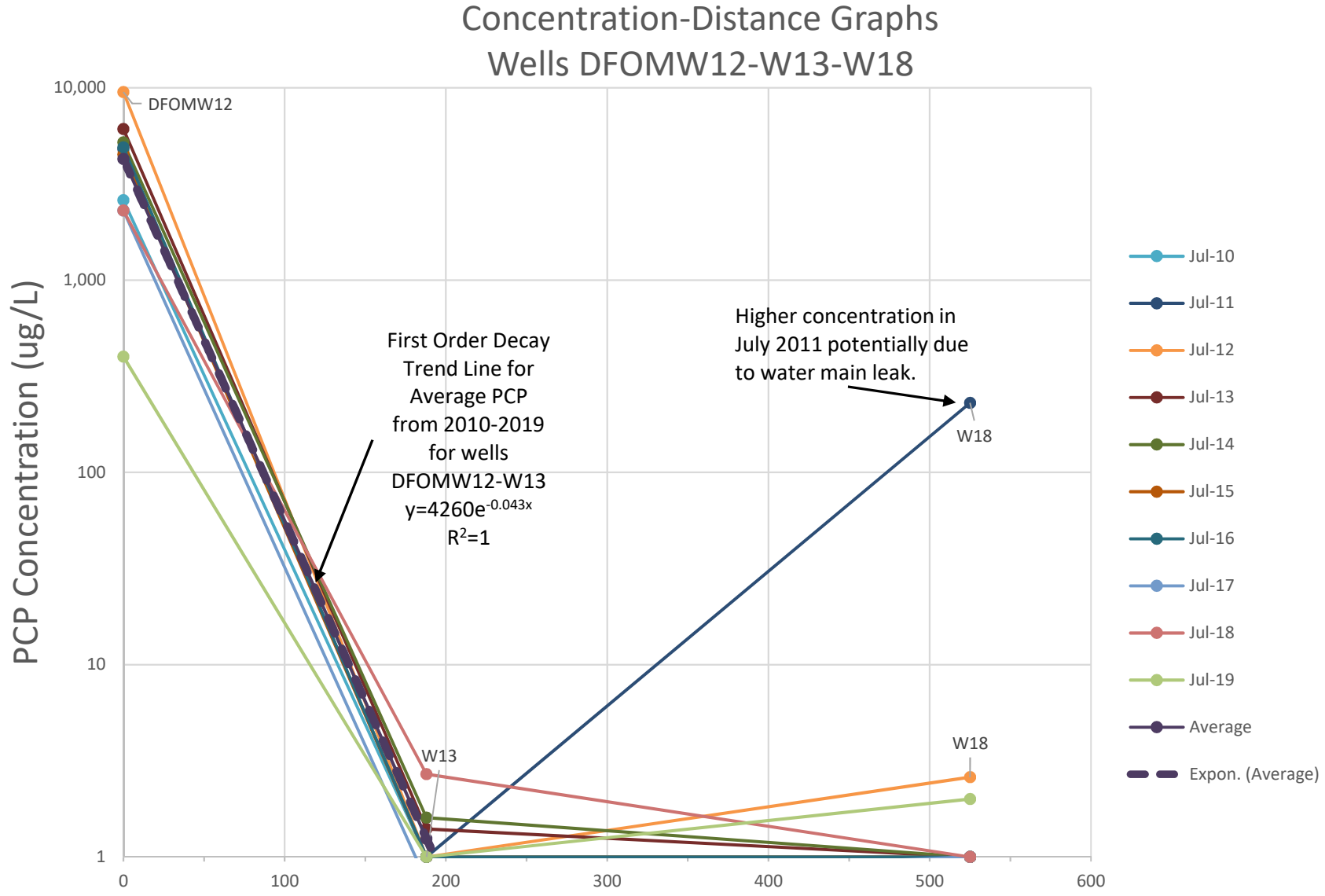

Concentration-Distance Graphs
Select Dates
Wells W22-W40-W26-W29-W21
W40
W22
W26
W29
W21
10,000
1,000
100
10
1
PCP Concentration (ug/L)
0
200
400
600
800
1000
1200
1400
Distance Downgradient of W22 (ft)
Jul-06
Jul-08
Jul-09
Jul-13
Average ('06, '08, '09, '13)
First Order Decay
Trend Line
for Average PCP from
2006, '08, '09, & '13 for wells:
W40-W26-W29-W21
y = 60908e-0.009x
R² = 0.9398
No samples from W40 from 2006-2009 due to LNAPL in well. Groundwater PCP set at 10,000 ug/L for these dates.
Non-detects at W21 plotted at 1 ug/L for convenience

Figure E-4



Non-detects plotted at 1 ug/L
for convenience

Figure E-5

APPENDIX F
WELL ABANDONMENT FORMS
AND
REPLACEMENT WELL FORMS

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		

Latitude / Longitude (see instructions)	Format Code	Method Code
44.948299 N	☒ DD	☐ GPS008
-89.636695 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ ¼ or Gov't Lot #	¼	Section	Township	Range
NW	SE	35	29 N	07 ☒ E ☐ W

Well Street Address: 1300 Cleveland Avenue

Well City, Village or Town	Well ZIP Code
Wausau	54401

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Street Reconstruction	

2. Facility / Owner Information

Facility Name: Wauleco

Facility ID (FID or PWS): 737063800

License/Permit/Monitoring #:

Original Well Owner: Wauleco

Present Well Owner: Wauleco

Mailing Address of Present Owner: 1800 N. Point Drive

City of Present Owner	State	ZIP Code
Stevens Point	WI	54481

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well (W19) ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/22/1986

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
38	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	

Was well annular space grouted? ☐ Yes ☐ No ☒ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	30.25

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☐ Bentonite Chips ☒ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	38	10 gallons	

6. Comments

W-19

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-site Environmental Services, Inc.		3/28/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590	Anthony R. Kapugi	4/4/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau: ☐ Drinking Water ☐ Waste Management ☐ Watershed/Wastewater ☐ Other: ☒ Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		

Latitude / Longitude (see instructions)	Format Code	Method Code
44.948889 N	☒ DD ☐ DDM	☐ GPS008 ☐ SCR002 ☐ OTH001
-89.632391 W		

¼ ¼ or Gov't Lot #	Section	Township	Range
NW ¼ SE	35	29 N	07 ☒ E ☐ W

Well Street Address: 146 E. Thomas Street

Well City, Village or Town	Well ZIP Code
Wausau	54401

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Construction	

2. Facility / Owner Information

Facility Name: Wauleco

Facility ID (FID or PWS): 737063800

License/Permit/Monitoring #:

Original Well Owner: Wauleco

Present Well Owner: Wauleco

Mailing Address of Present Owner: 1800 N. Point Drive

City of Present Owner	State	ZIP Code
Stevens Point	WI	54481

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well (W26) ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/24/1986

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
26	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	15

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	26	40#	

6. Comments

W-26

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-site Environmental Services, Inc.		3/28/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590	Anthony R. Kapugi	4/4/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		

Latitude / Longitude (see instructions)	Format Code	Method Code
44.948901 N	☒ DD ☐ DDM	☐ GPS008 ☐ SCR002 ☐ OTH001
-89.631066 W		

¼ ¼ or Gov't Lot #	¼	Section	Township	Range
NW	SE	35	29 N	07 ☒ E ☐ W

Well Street Address: 218 E. Thomas Street

Well City, Village or Town	Well ZIP Code
Wausau	54401

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Construction	

2. Facility / Owner Information

Facility Name: Wauleco

Facility ID (FID or PWS): 737063800

License/Permit/Monitoring #:

Original Well Owner: Wauleco

Present Well Owner: Wauleco

Mailing Address of Present Owner: 1800 N. Point Drive

City of Present Owner	State	ZIP Code
Stevens Point	WI	54481

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well (W-29) ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/29/1986

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
21	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10.75

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	21	35#	

6. Comments

W-29

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-site Environmental Services, Inc.		3/28/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590	Anthony R. Kapugi	4/4/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		

Latitude / Longitude (see instructions): 44.978492 N, -89.635218 W — Format Code: ☒ DD ☐ DDM — Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ ¼	¼	Section	Township	Range
NW	SE	35	29 N	07 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 102 W. Thomas Street

Well City, Village or Town	Well ZIP Code
Wausau	54401

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Street Reconstruction	

2. Facility / Owner Information

Facility Name: Wausau Co

Facility ID (FID or PWS): 737063800

License/Permit/Monitoring #:

Original Well Owner: Wausau Co

Present Well Owner: Wausau Co

Mailing Address of Present Owner: 1800 N. Point Drive

City of Present Owner	State	ZIP Code
Stevens Point	WI	54481

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well (W 39) ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 05/11/1990

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
25	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	

Was well annular space grouted? ☐ Yes ☐ No ☒ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	24

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☐ Bentonite Chips ☒ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	35	9 gallons	

6. Comments

W-39

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-site Environmental Services, Inc.		3/28/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590	Anthony R. Kapugi	4/4/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Marathon		

Latitude / Longitude (see instructions)	Format Code	Method Code
44.948754 N	☒ DD	☐ GPS008
-89.633711 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ ¼	¼	Section	Township	Range
NW	SE	35	29 N	07 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 127 E. Thomas Street

Well City, Village or Town	Well ZIP Code
Wausau	54401

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Construction	

2. Facility / Owner Information

Facility Name: Wauleco

Facility ID (FID or PWS): 737063800

License/Permit/Monitoring #:

Original Well Owner: Wauleco

Present Well Owner: Wauleco

Mailing Address of Present Owner: 1800 N. Point Drive

City of Present Owner	State	ZIP Code
Stevens Point	WI	54481

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well (W-40) ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 05/11/1990

If a Well Construction Report is available, please attach.

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
26	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	18

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	26	40#	

6. Comments

W-40

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-site Environmental Services, Inc.		3/28/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590	Anthony R. Kapugi	4/4/2019

DNR Use Only

Date Received	Noted By

Comments:

TRC Field Soil Boring Log Information

TRC Project No:

Page 1 of 1

Project Name	Start Date	End Date	Boring Number
Wauleco Inc.	06/24/2019	06/24/2019	W26R

Boring Drilled By	Drilling Method
T. Kapugi OES	4.25" HSA

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe	W26R		1175.1	8.25 Inches

Boring Location State Plane	Easting	Northing	Local Grid Location (If applicable)
NW 1/4 of SE 1/4 of Section 35 T 29 N,R 07 E			☐ N Feet ☐ S ☐ E Feet ☐ W

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

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	16			Poorly graded sand, some gravel (SP) (5YR 3/3)					
				Poorly graded med-coarse sand and gravel (SP) (7.5YR 5/4) no odor					
5' 2	48								
10' 3	46			Well graded medium sand, (SW) (7.5YR 6/3) no odor Moist					
15'	34								
20'	58			Poorly graded med-coarse sand and gravel (SP) (7.5YR 5/4) no odor Moist					
25'	31			EOB 27 Ft					

Logged By: T. D. Dunkle

Checked By: Ken Quinn

F-204A (R 12-94)

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Wauleco Inc	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: W26R
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 737063800	St. Plane: 406924.48 ft. N, 2063667.78 ft. E. S/C/N	Date Well Installed: 06/24/2019 (m m d d y y y y)
Type of Well — Well Code: MW / 11	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 35, T. 29 N, R. 07 ☒E ☐W	Well Installed By: Name (first, last) and Firm: A. Kapugi / OES
Distance from Waste/Source: _____ ft. — Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation: 1177.45 ft. MSL
B. Well casing, top elevation: 1177.15 ft. MSL
C. Land surface elevation: 1175.1 ft. MSL
D. Surface seal, bottom: 1174.6 ft. MSL or 0.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

15. Drilling fluid used: Water ☒ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe: _____

17. Source of water (attach analysis, if required):
A. Kapugi well

E. Bentonite seal, top: 1166.6 ft. MSL or 8.5 ft.
F. Fine sand, top: 1166.6 ft. MSL or 8.5 ft.
G. Filter pack, top: 1165.6 ft. MSL or 9.5 ft.
H. Screen joint, top: 1163.2 ft. MSL or 11.9 ft.
I. Well bottom: 1148.2 ft. MSL or 26.9 ft.
J. Filter pack, bottom: 1148.2 ft. MSL or 26.9 ft.
K. Borehole, bottom: 1148.2 ft. MSL or 26.9 ft.
L. Borehole, diameter: 8.25 in.
M. O.D. well casing: 2.38 in.
N. I.D. well casing: 2.03 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 5 ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ____
4. Material between well casing and protective pipe: Sand — Bentonite ☐ 30; Other ☒ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley OHIO 30-100
b. Volume added 0.25 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 2.25 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer: Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature	Firm
S. J. Owuteka	TRC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Wauleco Inc.	Marathon	W26R
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	37	------	---

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

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	--

3. Time spent developing well 120 min.

4. Depth of well (from top of well casisng) 26.9 ft.

5. Inside diameter of well 2.03 in.

6. Volume of water in filter pack and well casing 12.4 gal.

7. Volume of water removed from well 80.0 gal.

8. Volume of water added (if any) 10.0 gal.
During Installation

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	15.58 ft.	15.58 ft.
Date b.	06/28/2019 (m m d d y y y y)	06/28/2019 (m m d d y y y y)
Time c.	6:25 ☒ a.m. ☐ p.m.	8:25 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0. inches	0. inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Reddish brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Reddish brown

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Thomas Last Name: Dushek
Firm: TRC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Evan Last Name: Schreiner
Facility/Firm: Wauleco Inc.
Street: 1800 N. Point Drive
City/State/Zip: Stevens Point, WI 54481

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas J. Dushek
Print Name: Thomas J. Dushek
Firm: TRC

NOTE: See instructions for more information including a list of county codes and well type codes.

TRC Field Soil Boring Log Information

TRC Project No:

Project Name	Start Date	End Date	Boring Number
Wauleco Inc.	06/24/2019	06/24/2019	W29R

Boring Drilled By	Drilling Method
T. Kapusi OES	4.25" HSA

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe	W29R		1169.7	8.25 Inches

Boring Location State Plane	Easting	Northing	Local Grid Location (If applicable)
NW 1/4 of SE 1/4 of Section 35 T 29 N,R 07 E			☐ N ☐ S Feet ☐ E ☐ W Feet

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

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	28"			Topsoil (SM) well graded sand, (7.5YR 5/4) some silt, trace gravel, no odors					
				(SM) Fine graded sand, some silt, (5YR 3/3)					
5'				(SM) well graded sand, trace silt (5YR 6/2)					
2	29			Poorly graded sand and gravel (2.5YR4/4)					
				(SP), no odor, moist					
10'									▽ at 10 Ft
3	31								
15'									
4	60			well graded sand (7.5 YR 6/1) (SW), no odor, wet					
20'									
5	20			EOB 22 Ft					
25'									

Logged By: J. J. Dudek

Checked By: Ken Quinn

F-204A (R 12-94)

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Wauleco Inc	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: W29 R
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 737063800	St. Plane 406915.225 ft. N, 2064008.341 ft. E. S/C/N	Date Well Installed: 06/24/2019 (m m d d y y y y)
Type of Well — Well Code: MW / 11	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 35, T. 29 N, R. 07 ☒E ☐W	Well Installed By: Name (first, last) and Firm: A. Kapugi / OES
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 1171.72 ft. MSL
B. Well casing, top elevation 1171.46 ft. MSL
C. Land surface elevation 1169.7 ft. MSL
D. Surface seal, bottom 1168.2 ft. MSL or 1.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

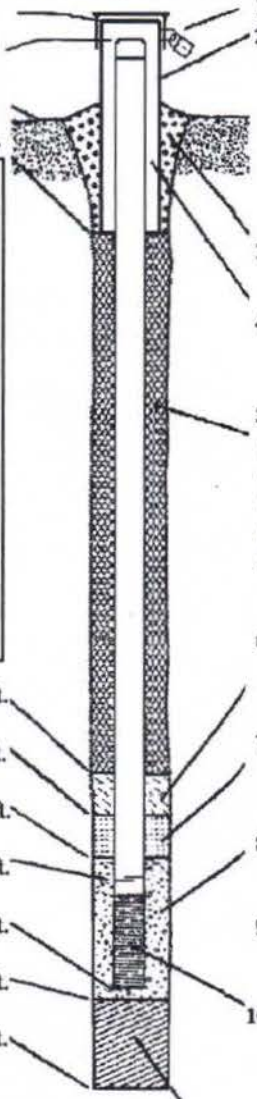
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ ___

15. Drilling fluid used: Water ☒ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
A. Kapugi well

E. Bentonite seal, top 1168.2 ft. MSL or 1.5 ft.
F. Fine sand, top 1164.7 ft. MSL or 5.0 ft.
G. Filter pack, top 1163.7 ft. MSL or 6.0 ft.
H. Screen joint, top 1162.7 ft. MSL or 7.0 ft.
I. Well bottom 1147.7 ft. MSL or 22.0 ft.
J. Filter pack, bottom 1147.7 ft. MSL or 22.0 ft.
K. Borehole, bottom 1147.7 ft. MSL or 22.0 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.03 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 5 ft.
c. Material: Steel ☒ 04 / Other ☐ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ___
4. Material between well casing and protective pipe: Sand
Bentonite ☐ 30 / Other ☒ ___
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ___
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley OHIO 30-100
b. Volume added 0.25 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 3.7 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ___
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ___
b. Manufacturer MonoFlex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ___

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

Signature	Firm
J. J. Dunkelberger	TRC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Wausau Inc	Marathon	W29R
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	37	_____ / ___

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

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	__

3. Time spent developing well 120 min.

4. Depth of well (from top of well casisng) 24.3 ft.

5. Inside diameter of well 2.03 in.

6. Volume of water in filter pack and well casing 12.8 gal.

7. Volume of water removed from well 80.0 gal.

8. Volume of water added (if any) 10.0 gal.
During Installation

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	10.28 ft.	10.28 ft.
Date b. (m m d d y y y y)	06/27/2019	06/27/2019
Time c.	6:50 ☒ a.m. ☐ p.m.	9:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Reddish brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Reddish brown

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Thomas Last Name: Dushek
Firm: TRC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Evan Last Name: Schreiner
Facility/Firm: Wausau Inc.
Street: 1800 N. Point Drive
City/State/Zip: Stevens Point, WI 54481

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas J. Dushek
Print Name: Thomas J. Dushek
Firm: TRC

NOTE: See instructions for more information including a list of county codes and well type codes.

TRC Field Soil Boring Log Information

TRC Project No:

Page 1 of 1

Project Name	Start Date	End Date	Boring Number
Wauleco Inc	06/24/2019	06/24/2019	W40R

Boring Drilled By	Drilling Method
T. Kapug; OES	4.25" HSA

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
Geoprobe	W40R		1180.8	8.25 Inches

Boring Location — State Plane — Easting — Northing

NW 1/4 of SE 1/4 of Section 35 T 29 N,R 07 E

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

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

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
1	27			Well graded Fine sand, some silt, (SM) (7.5YR 6/2). no odor					
2	35		5	Well graded Fine sand, little silt (SW) (7.5 YR 5/3), no odor, moist					
3	47		10	Poorly graded medium/coarse sand and gravel. (SP) (7.5YR 6/3), moist					
4	35		15	(7.5 YR 5/3) No odor Mineral spirits odor					
5	50		20	large gravel, Poorly graded medium/coarse sand, (7.5 YR 4/3) (SP) min. spts odor, wet					▽
6	50		25						
			30	silty with med. sand, (2.5YR 5/4) (ML) min spts odor EOB 30 Ft					

Logged By: J. J. Durbin

Checked By: Ken Quinn

F-204A (R 12-94)

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Wauleco Inc.	Local Grid Location of Well: ft. ☐N. ☐S. ft. ☐E. ☐W.	Well Name: W40R
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.	DNR Well ID No.
Facility ID: 737063800	St. Plane: 406848.42 ft. N, 2063338.50 ft. E. S/C/N	Date Well Installed: 06/24/2019 (m m d d y y y y)
Type of Well — Well Code: MW / 11	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 35, T. 29 N, R. 07 ☒E ☐W	Well Installed By: Name (first, last) and Firm: A. Kapngi / OES
Distance from Waste/Source: ft. — Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 1180.68 ft. MSL
B. Well casing, top elevation 1180.25 ft. MSL
C. Land surface elevation 1180.8 ft. MSL
D. Surface seal, bottom 1179.3 ft. MSL or 1.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 — Hollow Stem Auger ☒ 41 — Other ☐

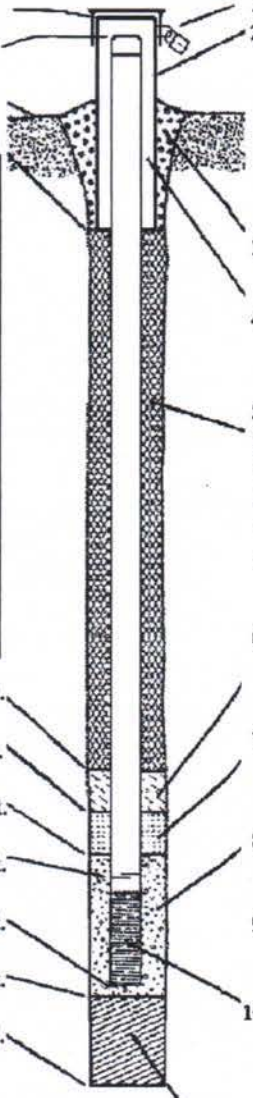
15. Drilling fluid used: Water ☒ 02 — Air ☐ 01 — Drilling Mud ☐ 03 — None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe

17. Source of water (attach analysis, if required):
A. Kapngi well

E. Bentonite seal, top 1169.8 ft. MSL or 11.0 ft.
F. Fine sand, top 1169.8 ft. MSL or 11.0 ft.
G. Filter pack, top 1168.55 ft. MSL or 12.25 ft.
H. Screen joint, top 1166.3 ft. MSL or 14.5 ft.
I. Well bottom 1151.3 ft. MSL or 29.5 ft.
J. Filter pack, bottom 1150.8 ft. MSL or 30.0 ft.
K. Borehole, bottom 1150.8 ft. MSL or 30.0 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.03 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 — Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe:
3. Surface seal: Bentonite ☐ 30 — Concrete ☒ 01 — Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30 — Other ☒ Sand
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 — Tremie pumped ☐ 02 — Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley OHIO 30-100
b. Volume added 0.25 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 2 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 — Flush threaded PVC schedule 80 ☐ 24 — Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 — Continuous slot ☐ 01 — Other ☐
b. Manufacturer MonoFlex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 — Other ☐

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

Signature	Firm
J. J. Dvorak	TRC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Wauleco Inc.	Marathon	W40R
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	37	------ / ---

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

2. Well development method

surged with bailer and bailed	☒ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐ --

3. Time spent developing well 190 min.

4. Depth of well (from top of well casisng) 29.5 ft.

5. Inside diameter of well 2.03 in.

6. Volume of water in filter pack and well casing 10.9 gal.

7. Volume of water removed from well 110.0 gal.

8. Volume of water added (if any) 10.0 gal.
During Installation

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 16.50 ft.	16.50 ft.
Date	b. 07/05/2019 (m m d d y y y y)	07/05/2019
Time	c. 7:00 ☒ a.m. ☐ p.m.	10:10 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0. inches	0. inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Reddish brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Reddish brown

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Thomas Last Name: Dushek
Firm: TRC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Evan Last Name: Schreiner
Facility/Firm: Wauleco Inc.
Street: 1800 N. Point Drive
City/State/Zip: Stevens Point, WI 54481

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas J. Dushek
Print Name: Thomas J. Dushek
Firm: TRC

NOTE: See instructions for more information including a list of county codes and well type codes.