TETRA TECH

March 2, 2022
(117-7469009.100)

Mr. Thomas Wentland
Waste Management Engineer
Wisconsin Department of Natural Resources
P.O. Box 408
Plymouth, WI 53073-0408

RE: Annual Progress Report, Source Area Remedial Action, Pentair Flow Technologies, LLC Facility, Delavan, Wisconsin
BRRTS# 02-65-529579, FID# 265091640

Dear Mr. Wentland:

Enclosed is the Annual Progress Report for the source area remedial action at the Pentair Flow Technologies, LLC (former Sta-Rite Industries) facility in Delavan, Wisconsin.

SITE NAME/ACTIVITY:	DATE: March 2, 2022
Contract No. SF-90-02	
Delavan Municipal Well #4	
Delavan, Wisconsin	
Source Area Remediation	PERIOD: January 1 through December 31, 2021

The format of this report follows the Wisconsin Department of Natural Resources (WDNR) "Guidance for Design, Installation, and Operation of Soil Venting Systems," WDNR Emergency and Remedial Response Section, July 1993, PUBL-SW185-93.

The following activities took place in 2021:

1. The groundwater extraction wells on the Delavan facility were operated and quarterly samples were collected from the storm sewer outfall (SS-1 sample identification) where the groundwater is discharged.

2. Monthly electronic wastewater discharge monitoring Long Reports documenting the total daily volume of groundwater discharged to the SS-1 storm sewer outfall from the Delavan facility groundwater extraction system were filled out and submitted to the WDNR. Quarterly electronic wastewater discharge monitoring Short Reports documenting the analytical results and field pH measurements for the quarterly samples collected from the SS-1 storm sewer outfall were filled out and submitted to the WDNR.

3. Annual sampling of the wells that are part of the groundwater monitoring program for the Delavan facility was performed in July. All existing site monitor wells were also inspected and

any damage to the surface seals, protective casings or well casings were noted. The above-grade steel protector top around monitor well D-15 was found to be corroded at the ground surface and the concrete surface seal around the protector top was broken up. All other monitor wells were in good condition. A new protector top and surface seal will be installed around D-15 in 2022.

4. An annual site inspection of the Delavan facility was performed during the annual groundwater sampling event to document the surface conditions in the two areas on the Delavan facility property containing residual volatile organic compounds (VOCs) impacts in the subsurface soil. A visual inspection of the entire Delavan facility property was also performed to document any potential land-use changes including the undeveloped east half of the property. Photographs were also be taken to document site conditions.

5. A new Badger Meter Dynasonics® U500w Ultrasonic meter was purchased for extraction well EX-1 because the original U500w meter stopped registering flow accurately. The new meter was delivered to the Delavan facility on or about January 18, 2022 and will be installed in the spring of 2022.

If you require additional information or have any questions regarding these matters, please contact me at your convenience.

Sincerely,

Tetra Tech

Mark A. Manthey, P.G.
Associate Hydrogeologist
mark.manthey@tetratech.com

Encs.
cc: Thomas Samuel, Pentair Flow Technologies, LLC (Electronic copy via email.)
Curtis Hedman, Ph. D., Toxicologist, Wisconsin Department of Health Services (Electronic copy via email.)
Karen Cibulskis, EPA (Electronic copy via email.)

2021 ANNUAL
PROGRESS REPORT
PENTAIR FLOW TECHNOLOGIES, LLC
DELAVAN, WISCONSIN FACILITY
SOURCE AREA REMEDIATION

BRRTS# 02-65-529579
FACILITY ID# 265091640

March 2, 2022

Prepared For:

Pentair Flow Technologies, LLC
293 Wright Street
Delavan, Wisconsin 53115

Prepared By:

Tetra Tech
Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

Project No. 117-7469009

CERTIFICATION

Hydrogeologist:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code.

Mark A. Manthey, P.G.
Associate Hydrogeologist
Tetra Tech

TETRA TECH

SUMMARY OF PROGRESS MADE THIS REPORTING PERIOD

The following remedial action activities took place in 2021:

1. The groundwater extraction wells on the Delavan facility were operated and quarterly samples were collected from the storm sewer outfall (SS-1 sample identification) where the groundwater is discharged.

2. One round of groundwater samples was collected from the monitor wells and groundwater extraction wells that are part of the groundwater monitoring program for the Delavan facility July 21st and July 22nd. All existing Delavan facility monitor wells were also inspected and any damage to the surface seals, protective casings or well casings were noted.

   The analytical results from 2021 showed moderate to slight decreases in the concentrations or no detections of the volatile organic compounds (VOCs) analyzed in eight of the 15 wells sampled. VOC concentrations exhibited stable to moderate increases in concentration in four monitor wells and one extraction well. One VOC increased from 2020 to 2021 and one VOC decreased from 2020 to 2021 in monitor well TW-3 and extraction well EX-2R. The analytical results from the 2021 sampling round indicate the contaminant plume is exhibiting an overall stable to decreasing trend in the site contaminants. The analytical results for the groundwater samples collected from the site during this reporting period are summarized on Table 1, Table 2, and Figure 1. Charts showing the trends in VOC concentrations for select site monitor wells are included as Figures 2 through 8. Laboratory results and field data sheets for the annual groundwater sampling event are included in Appendix B and copies of the quarterly discharge monitoring Short Reports containing the analytical results collected at the SS-1 storm sewer outfall where the groundwater pumped from the Delavan facility groundwater extraction system extraction wells discharges are provided in Appendix C.

3. As described in the Final Institutional Control Implementation and Assurance Plan (ICIAP) for the Delavan facility property (February 16, 2018), an annual site inspection of the Delavan

facility was performed during the annual groundwater sampling event to document the surface conditions in the two areas on the Delavan facility property containing residual VOCs impacts in the subsurface soil. The first area is located next to the north wall of Plant 2 in the former sump source area and contains residual TCE impacts in the soil at a depth of 28 feet below ground surface that are protective of commercial and industrial site uses but are not protective of non-commercial/non-industrial uses. The second area is found beneath the concrete floor of Plant 1 and south of the south wall of Plant 1 and contains pervasive low-level VOCs impacts in the subsurface soil. The approximate extent of the low-level VOCs impacts in the soil beneath and south of Plant 1 is shown on Figure 1. Inspection of surface conditions in this area is needed to confirm the surface cover of the concrete floor of Plant 1 and the paved areas south of the south wall of Plant 1 are still intact to prevent direct contact with the potentially impacted soils. A visual inspection of the entire Delavan facility property was also performed to document any potential land-use changes including the former locations of the chip storage extraction system (CSES) and southeast extraction system (SES) and the undeveloped land on the east half of the property. Photographs were taken to document site conditions.

The site inspection confirmed the surface cover remains intact in the area of the residual VOCs impacts beneath and south of Plant 1 and the surface conditions in the former sump source area are unchanged. The undeveloped land on the east half of the property remains undeveloped and land use in and around the developed portion of the Delavan facility property including the former CSES area and former SES area remains the same. The site monitor wells were also inspected. The above-grade steel protector top around monitoring well D-15 was found to be corroded at the ground surface and the concrete surface seal around the protector was broken up. All other monitor wells were in good condition. Photographs documenting site conditions are included in Appendix A.

4. A new Badger Meter Dynasonics® U500w Ultrasonic meter was purchased for extraction well EX-1 because the original U500w meter stopped registering flow accurately. The new meter was delivered to the Delavan facility on or about January 18, 2022. The new meter will be installed by Delavan facility personnel in the spring of 2022.

GROUNDWATER

Residual groundwater impacts originating from the former SES and former sump source areas are controlled by extraction wells EX-1 and EX-7R. Groundwater downgradient of the former CSES source area and the pervasive low-level residual VOCs impacts in the subsurface soil beneath a portion of the concrete floor of Plant 1 and south of the south wall of Plant 1 is controlled by extraction wells EX-2R, EX-3R, EX-4R, EX-5R, and EX-6 (see Figure 1). Wastewater discharge monitoring reports documenting the flow rate and effluent chemistry where the combined flow from the seven extraction wells is discharged to the storm sewer (storm sewer outfall SS-1) are provided in Appendix C.

Groundwater Sampling

The annual groundwater sampling round was conducted July 21st and July 22nd. The monitor wells and groundwater extraction wells that are part of the Delavan facility groundwater monitoring program are listed on Table 4. The field sampling forms and the analytical results for the annual sampling round are provided in Appendix B. The analytical results for the sampling points that are part of the Delavan facility groundwater monitoring plan are summarized on Table 1 and Table 2. Table 1 presents the analytical results for the chlorinated volatile organic compounds (CVOCs) for which all of the site monitoring points are analyzed, which include tetrachloroethene (PCE), 1,1,1-trichloroethane (TCA), trichloroethene (TCE), 1,1,2-trichloroethane and vinyl chloride. Table 2 summarizes the analytical results for monitor well TW-4, which is analyzed for the full list of volatile organic compounds (VOCs). Total VOC concentrations for the annual sampling event are also listed next to each sampling point on Figure 1. Time versus concentration plots were prepared and graphed for contaminant concentrations in the most highly impacted wells near Plant 1 and Plant 2 and are included as Figures 2 through 8.

The following summarizes the trends in water quality at site monitoring points.

Plant 1: Four monitor wells and two extraction wells were sampled during this reporting period. Contaminants of concern are TCA and TCE. The PCE results for the Plant 1 wells are also discussed as it is a contaminant of concern at Plant 2.

PCE: No PCE was detected in any of the groundwater samples collected from the Plant 1 wells.

TCA: TCA was detected in the groundwater samples collected from three of the Plant 1 monitor wells sampled and extraction wells EX-2R and EX-3R. All the reported TCA concentrations were below the TCA Chapter NR140 groundwater quality standards. Comparison of the 2020 TCA results to the 2021 TCA results is presented below:
TCA NR140 Enforcement Standard (ES) = 200 ug/L
TCA NR140 Preventive Action Limit (PAL) = 40 ug/L

- TCA concentrations in MW-1026 increased slightly from 3.2 ug/L to 5.6 ug/L. TCA concentrations in MW-1026 have exhibited an overall declining trend since the July 2006 sampling event. TCA concentrations in MW-1026 have not exceeded its PAL since the July 2007 sampling event.

- The TCA concentration in MW-1027 increased from 2.5 ug/L in 2020 to 4.3 ug/L in 2021. TCA concentrations in MW-1027 have exhibited a declining trend since the 2005 sampling event and TCA concentrations in MW-1027 have not exceeded its PAL since the July 2006 sampling event. 1994 was the last time the TCA concentration in MW-1027 exceeded the ES.

- The reported TCA concentrations in TW-4 decreased slightly from 20 ug/L in 2020 to 19 ug/L in 2021. TCA concentrations in TW-4 have been below its PAL since the July 2013 sampling round and the 2011 through 2021 TCA concentrations are the lowest reported TCA concentrations for samples collected from TW-4. The TCA data suggest there is a declining trend in TCA impacts at TW-4. 2001 was the last time the TCA concentration in TW-4 exceeded the ES.

- TCA was not detected above the detection limit of 0.38 ug/L in the groundwater samples collected from monitor well D-25R in 2020 and 2021. TCA concentrations in the D-25R samples have exhibited a declining trend since the 2005 sampling event and TCA concentrations have been below the PAL since the October 1996 sampling round.

- The TCA concentration in extraction well EX-2R increased slightly from no detection (detection limit = 0.38 ug/L) in 2020 to 0.47 ug/L in 2021. TCA concentration in EX-2R have not exceeded the PAL since 1997.

- The TCA concentration in extraction well EX-3R decreased slightly from 5.0 ug/L in 2020 to 4.2 ug/L in 2021. EX-3R is the replacement extraction well for original extraction well EX-3 and was brought on-line in September 2017. TCA concentrations in the EX-3 samples have not exceeded the PAL since 1997.

TCE: TCE concentrations exceeded the NR140 ES of 5.0 ug/L in the groundwater samples collected from monitor wells MW-1027 and TW-4 and extraction well EX-3R during this reporting period. The reported TCE concentration in the samples collected from monitor well MW-1026 and extraction well EX-2R exceeded the PAL of 0.50 ug/L. TCE was detected in the groundwater sample collected from monitor well D-25R but it reported

concentration was below the PAL. Comparison of the 2020 TCE results to the 2021 TCE results is presented below:

TCE NR140 ES = 5.0 ug/L

TCE NR140 PAL = 0.50 ug/L

- TCE concentrations in MW-1026 increased slightly from 1.3 ug/L to 1.6 ug/L. TCE concentrations in the groundwater samples collected from MW-1026 are exhibiting an overall declining trend since the 2005 sampling round when the reported TCE concentration in the MW-1026 sample was 21 ug/L.

- The TCE concentration in MW-1027 increased from 37 ug/L to 46 ug/L. The reported TCE concentration in the 2019 groundwater sample collected from MW-1027 was 41 ug/L and 27 ug/L in 2018. The 27 ug/L concentration reported for the 2018 sample is the lowest historical TCE concentration for a MW-1027 sample. TCE concentrations at MW-1027 are exhibiting an overall declining trend since 1997.

- The TCE concentration in monitor well TW-4 decreased from 21 ug/L to 14 ug/L. Review of the TCE results for the TW-4 samples presented on Table 1 shows TCE concentrations have been below 30 ug/L since the July 2016 sampling event and have exhibited on overall declining trend since 1993.

- At monitor well D-25R, the TCE concentration increased slightly from no detection (detection limit = 0.16 ug/L) in 2020 to 0.46 ug/L in 2021. The sample collected from D-25R in 2019 had a reported TCE concentration of 0.54 ug/L TCE. The TCE data indicate an overall declining trend in TCE impacts at D-25R. TCE concentrations in

groundwater samples collected from D-25R have not exceeded the ES since the July 2010 sampling event.

- The TCE concentration in extraction well EX-2R decreased slightly from 2.4 ug/L to 2.1 ug/L. TCE concentrations in the EX-2R samples have been below 10 ug/L since the July 2012 sampling event.

- The TCE concentration in extraction well EX-3R decreased from 6.3 ug/L to 5.6 ug/L. TCE concentrations are exhibiting a decreasing trend at EX-3/EX-3R.

Plant 2: Seven monitor wells and two extraction wells were sampled during this reporting period. Contaminants of concern are PCE, TCA, and TCE.

PCE: PCE was detected above its PAL of 0.5 ug/L in the groundwater samples collected from monitor wells D-15 and TW-3 and extraction well EX-7R. No PCE was detected in the groundwater samples collected from monitor wells D-18, MW-2004, MW-2005R, MW-2011 and TW-1 and extraction well EX-1. A comparison of the 2020 PCE results to the 2021 PCE results is presented below:
PCE NR140 ES = 5.0 ug/L
PCE NR140 PAL = 0.50 ug/L

- No PCE was detected in the samples collected from monitor wells D-18, MW-2004, MW-2005R, MW-2011 and TW-1 and extraction well EX-1 in 2020 and 2021. PCE was last detected in D-18 in 2009 and was last detected in MW-2004 in 1997. PCE has never been detected in MW-2011 and was last detected in TW-1 in 2008. The PCE concentrations in the samples collected from MW-2005R, which replaced original monitor well MW-2005 in 2007, have been below 3 ug/L since the July 2007 sampling event and suggest an overall stable to declining trend in

PCE impacts at MW-2005R since 2007. The last sample collected from MW-2005 in September 2004 had a reported PCE concentration of 17 ug/L.

- PCE concentration in monitor well D-15 decreased from 13 ug/L to 4.0 ug/L. The PCE concentrations in D-15 have ranged from 4.0 ug/L to 47 ug/L since the July 2010 sampling event. The PCE concentrations for the 2014, 2015 and 2021 samples are the lowest reported PCE concentration for samples collected from D-15 between the November 1991 sampling round and the 2021 sampling round. The 2021 PCE results confirms an overall decreasing trend in PCE concentrations at monitor well D-15 since the July 2010 sampling round when the reported PCE concentration in D-15 was 47 ug/L.

- The PCE concentration in monitor well TW-3 decreased slightly from 0.91 ug/L in 2020 to 0.85 ug/L in 2021. PCE impacts in TW-3 have been below the 5.0 ug/L ES since the April 2002 sampling event.

- The PCE concentration in replacement extraction well EX-7R, which replaced original extraction well EX-7 and was brought on-line in September 2017, decreased from 5.0 ug/L in 2020 to 3.2 ug/L in 20210. The PCE results from EX-7 and EX-7R from the 2010 to 2021 sampling rounds suggest an overall declining trend in PCE impacts in the former sump source area.

TCA: TCA was only detected in the groundwater sample collected from monitor well MW-2011 at a concentration of 2.0 ug/L, which is well below the Chapter NR140 PAL of 40 ug/L. All the reported TCA detections in samples collected from MW-2011 are below the NR140 PAL.

TCE: The Chapter NR140 ES for TCE of 5.0 ug/L was exceeded in the

groundwater samples collected from monitor well MW-2011. The PAL for TCE (0.50 ug/L) was exceeded in the groundwater sample collected from monitor well D-15 and replacement extraction well EX-7R. No TCE was detected in the groundwater samples collected from monitor wells D-18, MW-2004, MW-2005R and TW-1. TCE was detected in the groundwater samples collected from monitor well TW-3 and extraction EX-1 but at concentrations below the PAL. A comparison of the 2020 TCE results to the 2021 TCE results is presented below:

TCE NR140 ES = 5.0 ug/L

TCE NR140 PAL = 0.50 ug/L

- No TCE was detected in the 2020 and 2021 groundwater samples collected from monitor wells D-18, MW-2004, MW-2005R and TW-1. TCE impacts in D-18 have been below 1.0 ug/L since the July 2010 sampling event and have not exceeded the ES of 5.0 ug/L since 2003. TCE concentrations have been below the ES of 5.0 ug/L in groundwater samples collected from monitor well MW-2004 since the 1997 annual sampling event and the PAL has not been exceeded since the 2015 sampling event. TCE has never been detected in a groundwater sample collected from MW-2005R, which replaced original monitor well MW-2005 in 2007. The last sample collected from MW-2005 in September 2004 had a reported TCE concentration of 1.3 ug/L. TCE was last detected in a groundwater sample collected from monitor well TW-1 in July 2012 at a concentration of 0.31 ug/L.

- The TCE concentration in monitor well MW-2011 increased slightly from 13 ug/L in 2020 to 14 ug/L in 2021. The reported TCE concentrations in MW-2011 have ranged from 35 ug/L to 7.2 ug/L from 2014 to 2021 and are on a decreasing trend.

- The TCE concentration in monitor well D-15 decreased from 11 ug/L to 4.6 ug/L. Review of the TCE data presented on Figure 5 shows TCE concentrations in D-15 are exhibiting on overall decreasing trend since the April 2001 sampling event.

- The TCE concentration in monitor well TW-3 increased from not detection (detection limit = 0.16 ug/L) in 2020 to 0.26 ug/L in 2021. Prior to the 2021 sampling event, TCE was last detected in the July 2016 sample collected from TW-3 at a concentration of 0.29 ug/L. TCE concentrations in TW-3 have been below the ES since the June 2003 sampling event.

- The TCE concentration in extraction well EX-1 increased slightly from no detection (detection limit = 0.16 ug/L) to 0.31 ug/L. TCE concentrations in extraction well EX-1 have been below the ES since 2004 and below the PAL since 2013.

- The reported TCE concentration in extraction well EX-7R decreased slightly from 2.6 ug/L in 2020 to 1.8 ug/L in 2021. The TCE results from EX-7 and EX-7R from the 2010 to 2021 sampling rounds suggest an overall declining trend in PCE impacts in the former sump source area.

Extraction Wells Maintenance and Meter Readings

As reported in the 2018 Annual Progress report, the four Badger Meter Dynasonics® U500w Ultrasonic meters that read flow from extraction wells EX-1, EX-2R, EX-3R, EX-4R and EX-5R were installed and brought on-line in May 2018. The meter that reads flow from EX-6 was installed and brought on-line in August 2018 and the meter that reads flow from EX-7R was installed and brought on-line in November 2018. The meters that read flow from extraction wells EX-1, EX-2R, EX-3R, EX-4R, EX-5R and EX-6 are installed in storm sewer manholes on the Delavan facility property. One meter reads the combined flow from extraction wells EX-2R and EX-3R

and four meters read the individual flow from EX-1, EX-4R, EX-5R and EX-6. The meter that reads the flow from extraction well EX-7R is installed in an insulated enclosure at the wellhead. The monthly flow data from the U500w Ultrasonic meters downloaded from the AquaCUE® Flow Measurement Manager site is summarized on Table 3. The flow data from the EX-1 meter showed a decline in pumping rate from 34.9 gallons per minute (gpm) to 42.6 gpm from January to November 2020 to 9.4 gpm in December 2020. The flow data from the EX-1 meter continued to indicate low pumping rates of less than 9 gpm in 2021. Pentair personnel observed flow from the spray nozzles connected to the effluent line of EX-1 in storm sewer manhole that appeared to be higher than the flow rate being registered by U500w meter so they manually measured the flow rate from EX-1 in October and calculated a pumping rate 34.1 gpm for EX-1. Badger Meter was contacted and they said the meter could not be repaired because the U500w meter has no moving parts that could be repaired or replaced. The U500w meter was out of warranty so new U500w meter was purchased from Badger Meter to replace the faulty meter. The new U500w meter was delivered to the Delavan facility on or about January 18, 2022. Pentair personnel will install the new meter on the effluent line of extraction well EX-1 in the spring of 2022.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Significant reductions in VOC impacts at site monitor wells have been observed since the remedial action began. While VOC removal from the dual soil vapor extraction/groundwater extraction (SVE/GWE) wells in the former CSES and former SES areas and the SVE wells in the former sump source area has been discontinued, hydraulic control of the contaminant plume is maintained by pumping from the seven groundwater extraction wells located on the Delavan facility property (EX-1, EX-2R, EX-3R, EX-4R, EX-5R, EX-6 and EX-7R).

Recommendations

1. Pumping from extraction wells EX-1, EX-2R, EX-3R, EX-4R, EX-5R, EX-6 and EX-7R

will continue.

2. The groundwater samples collected from EX-1 indicate concentrations of the Delavan facility contaminants of concern have been below their respective ESs since the September 2004 sampling event. The analytical results for the groundwater samples collected from EX-1 suggest it may be appropriate to stop groundwater extraction from EX-1. If the annual groundwater sample collected from EX-1 in 2022 has no detection of the Delavan facility contaminants of concern or has detections of the contaminants of concern that are below their respective PALs, a recommendation to stop groundwater extraction from EX-1 will be made in the 2022 progress report. EX-1 will not be decommissioned as it will be used as a backup for extraction well EX-7R for instances when EX-7R is shut down for repairs or if the pump in EX-7R fails.

3. The corroded steel protector top around monitor well D-15 will be removed and replaced with a new protector top. The damaged concrete surface seal around D-15 will also be removed and replaced with fresh concrete.

4. Annual sampling of the monitor wells and extraction wells that are part of the groundwater monitoring program for the Delavan facility will continue (Table 4). All the site monitor wells will be inspected as part of the annual groundwater sampling event.

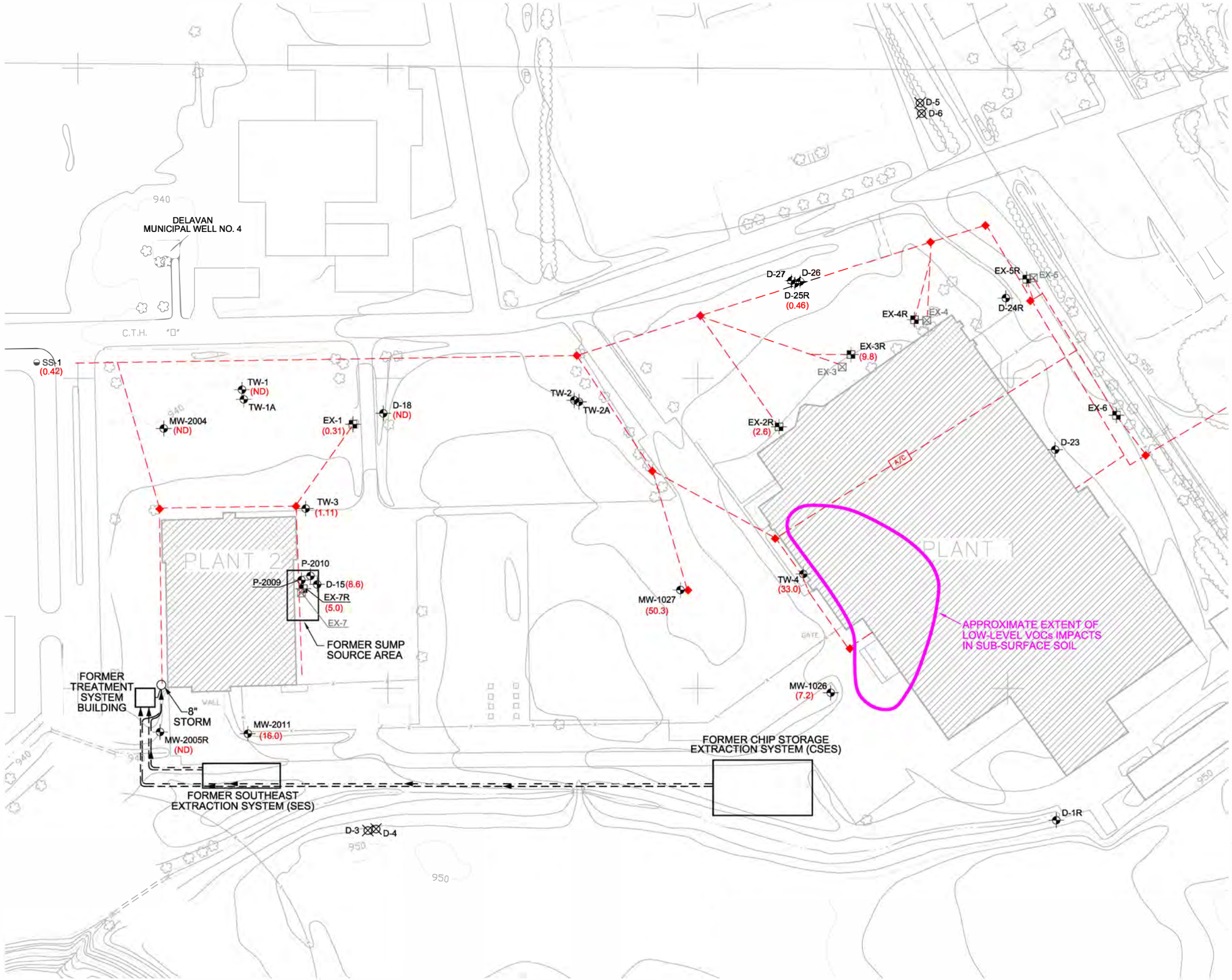
5. An annual site inspection of the Delavan facility property to document current site conditions and land use as described in the Final ICIAP will be performed in conjunction with the annual groundwater sampling event.

FIGURES

TABLES

APPENDICES

FIGURES



EXPLANATION

- MW-2004 — MONITOR WELL LOCATION AND DESIGNATION
- D-4 — FORMER LOCATION AND DESIGNATION OF MONITOR WELL THAT WAS ABANDONED ON JULY 14, 2019
- E-3 — EXTRACTION WELL LOCATION AND DESIGNATION
- SS-1 — STORM SEWER SAMPLE LOCATION AND DESIGNATION
- P-2009 — PIEZOMETER LOCATION AND DESIGNATION
- EX-7 — FORMER EXTRACTION WELL LOCATION AND DESIGNATION (FILLED AND SEALED IN 2017)
- EXTRACTION WELL/ STORM SEWER PIPING
- (11.3) — TOTAL VOCs CONCENTRATION (ug/L) FROM 2021 SAMPLING ROUND
- (ND) — NO VOCs DETECTED

N

SCALE

0 330

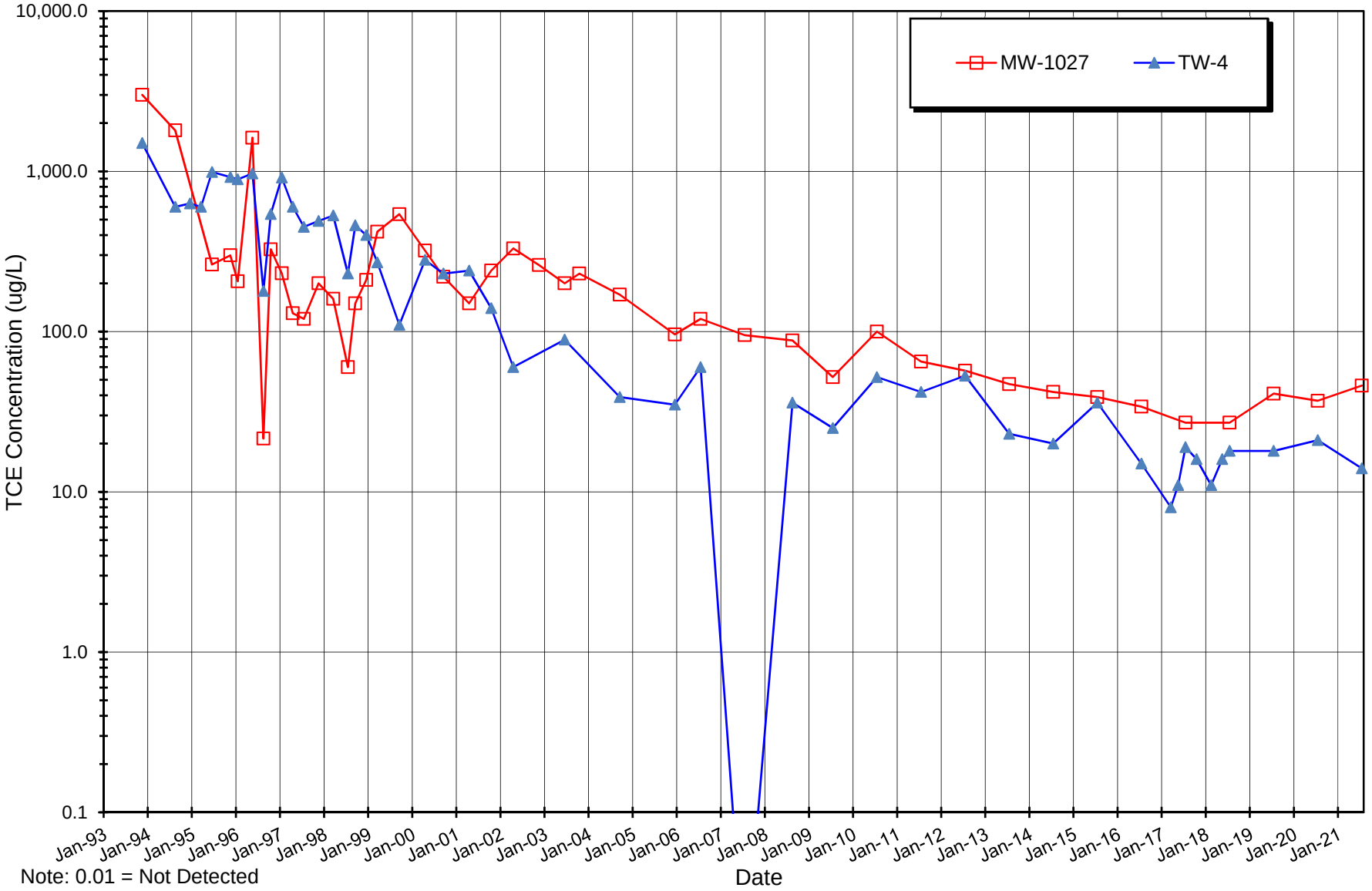
Feet

Base map from Areo-Metric Engineering, 4/16/88.

S:\CAD\STA-RITE\DELAVAN\FEBRUARY 2022\7469009FIG1_02-17-22.DWG

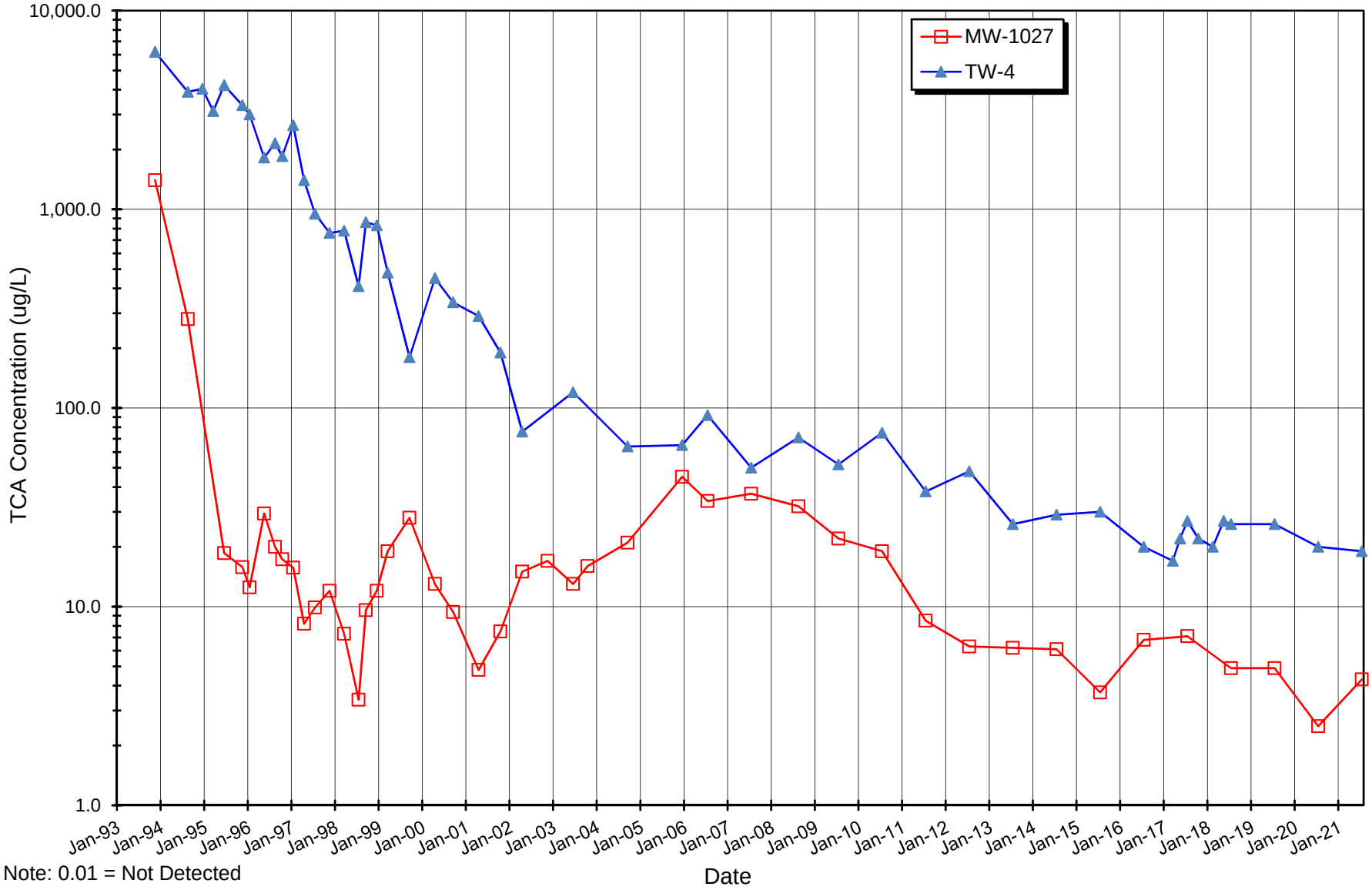
STA-RITE INDUSTRIES, INC. DELAVAN, WISCONSIN	DATE: 02/17/22
SITE LAYOUT AND TOTAL VOCs CONCENTRATIONS FOR GROUNDWATER MONITORING POINTS	DESIGNED: CMP CHECKED: MAM APPROVED: MAM DRAWN: CMP PROJ.: 117-7469009
TETRA TECH	Figure 1

Figure 2. Plant 1 Trichloroethene (TCE) Concentration Changes
ES = 5 ug/L, PAL = 0.5 ug/L



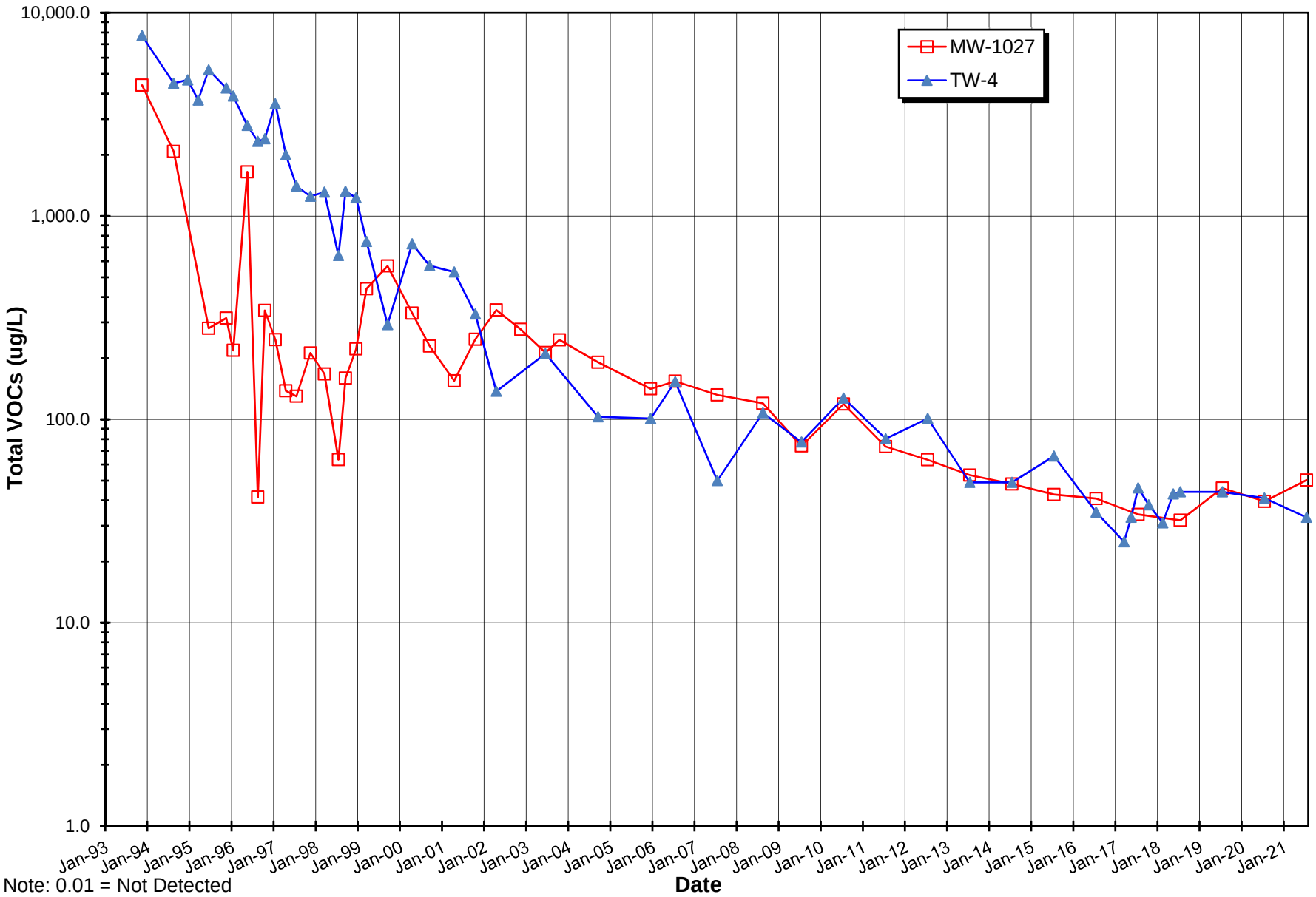
Note: 0.01 = Not Detected

Figure 3. Plant 1 1,1,1-Trichloroethane (TCA) Concentration Changes
ES = 200 ug/L, PAL = 40 ug/L



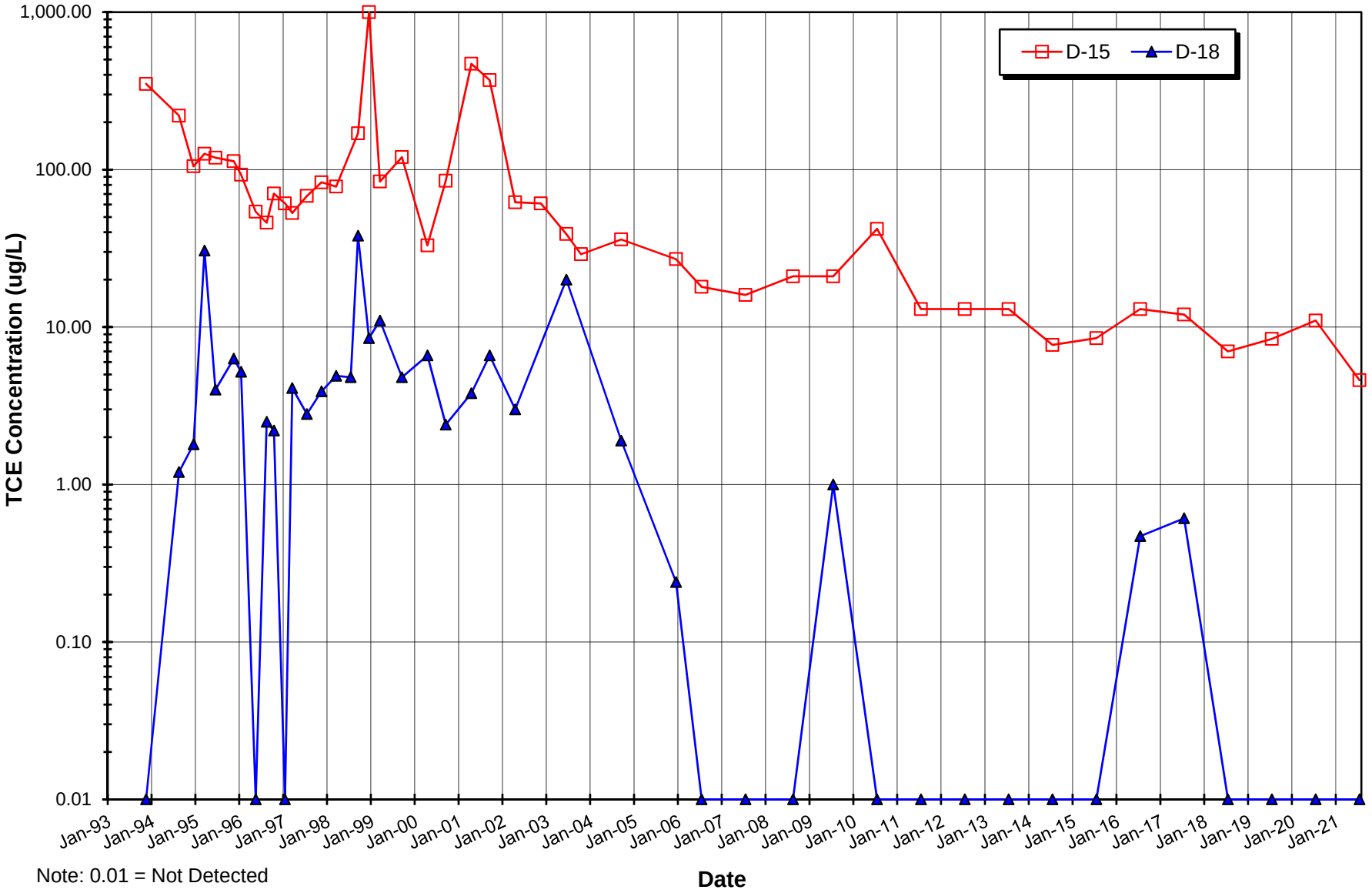
Note: 0.01 = Not Detected

Figure 4. Plant 1 Total VOC Concentration Changes



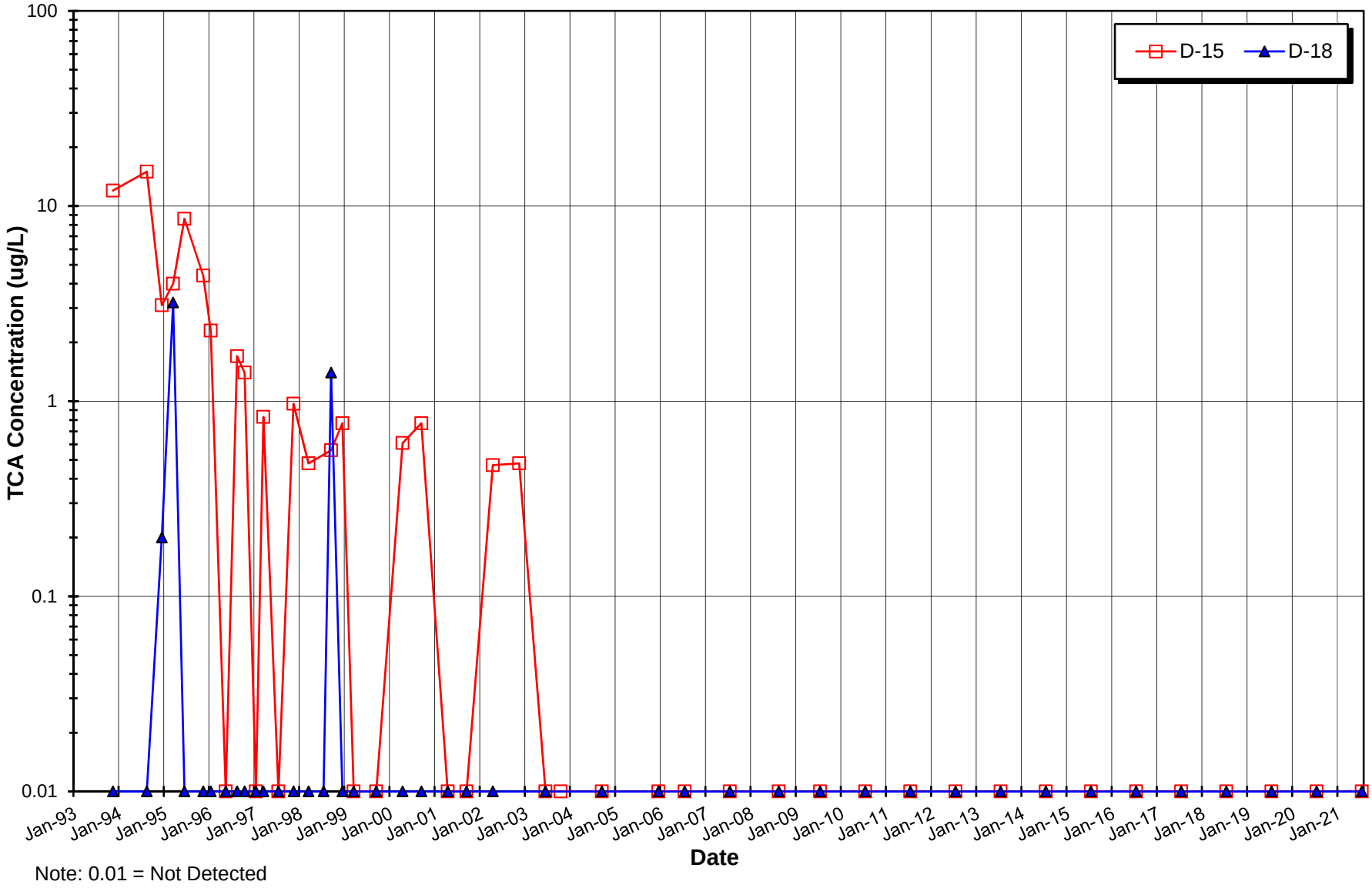
Note: 0.01 = Not Detected

Figure 5. Plant 2 Trichloroethene (TCE) Concentration Changes
ES = 5 ug/L, PAL = 0.5 ug/L



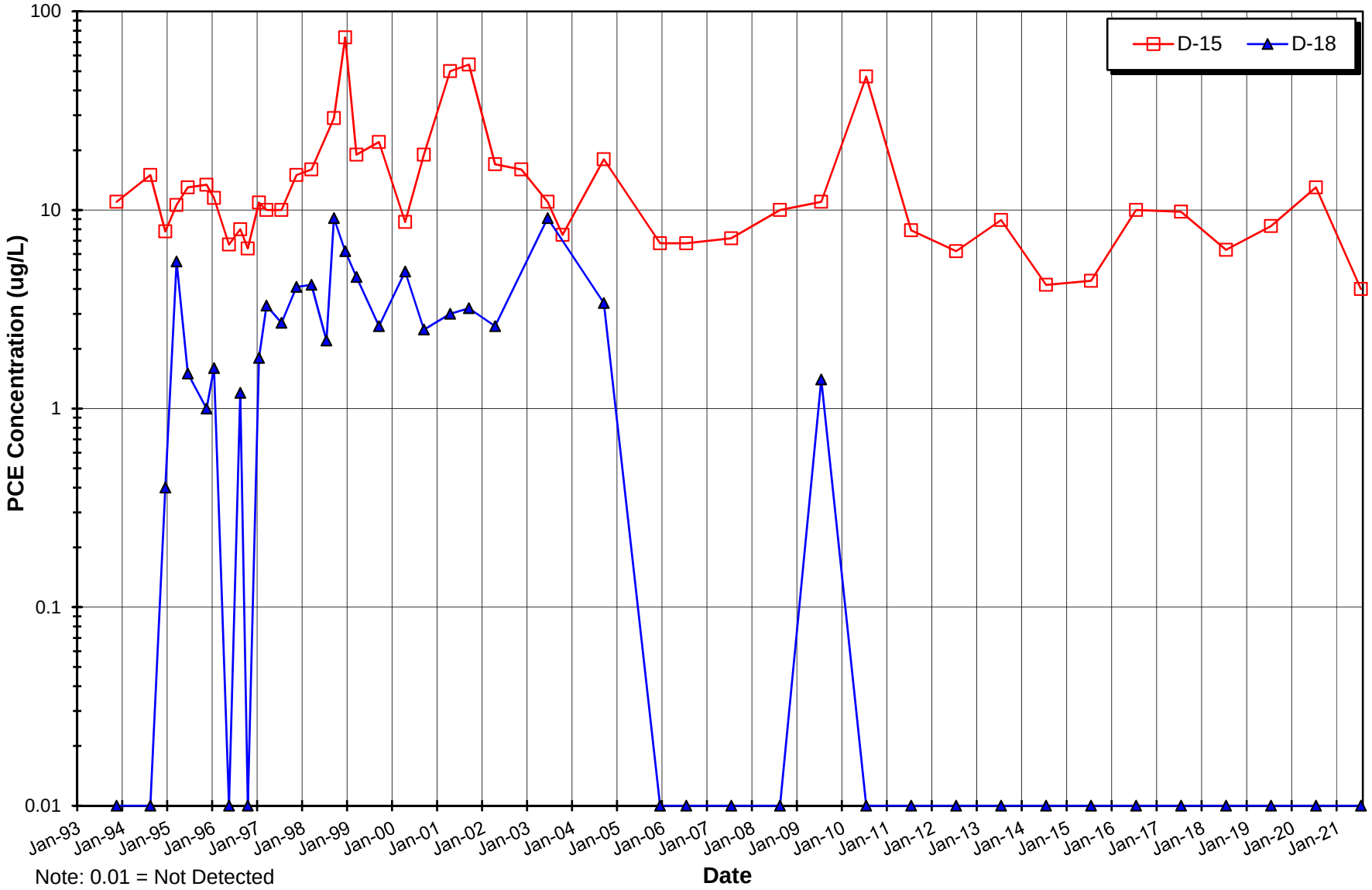
Note: 0.01 = Not Detected

Figure 6. Plant 2 1,1,1-Trichloroethane (TCA) Concentration Changes
ES = 200 ug/L, PAL = 40 ug/L



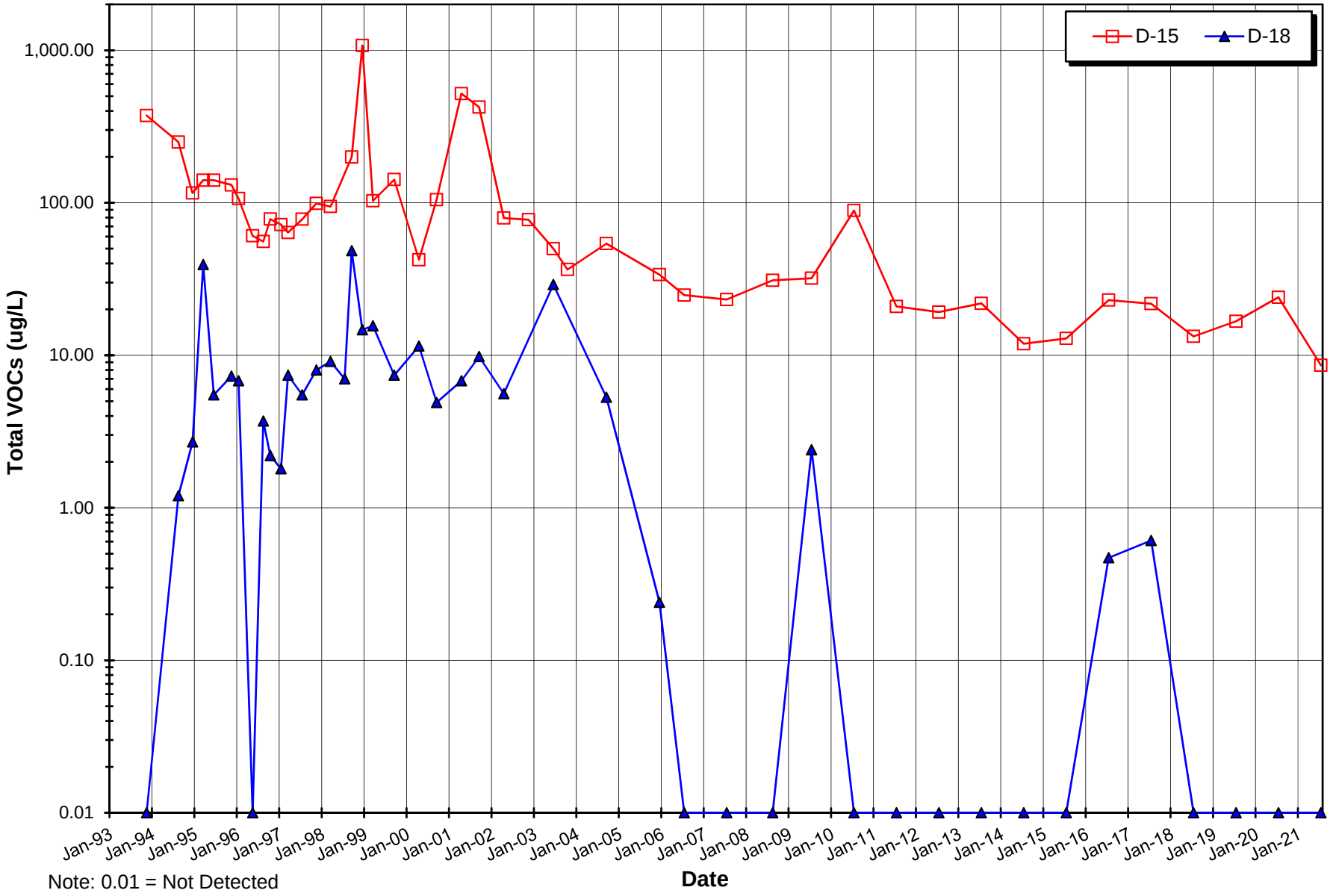
Note: 0.01 = Not Detected

Figure 7. Plant 2 Tetrachloroethene (PCE) Concentration Changes
ES = 5 ug/L, PAL = 0.5 ug/L



Note: 0.01 = Not Detected

Figure 8. Plant 2 Total VOC Concentration Changes



Note: 0.01 = Not Detected

TABLES

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
Plant #1							
MW-1026	10/29/91	**0.60**	**16000**	**1300**	**8.2**	<0.3	17308.8
	10/29/91	**1.2**	**15000**	**1300**	**7.1**	<0.3	16308.3
Downgradient	12/11/91	**1.0**	**22000**	**1500**	**10**	<0.3	23511
Monitor	11/11/93	<0.5	**4500**	**250**	**1.0**	<0.3	4751
Wells	08/16/94	<1	**1500**	**210**	NA	<5	1710
MW-1026	12/13/94	<25	**865**	**183**	NA	<25	1048
	03/13/95	NA	NA	NA	NA	NA	0
	06/21/95	<0.34	**41.9**	**72**	<0.19	<0.27	113.9
	11/07/95	<0.5	<0.5	**52.4**	NA	<0.5	52.4
	01/25/96	<0.5	**49.6**	**30.8**	NA	<0.5	80.4
	05/13/96	<0.5	**74.4**	**27.1**	NA	<0.5	101.5
	08/13/96	<0.5	**41**	**33.1**	**5.6**	<0.5	79.7
	10/08/96	<0.5	**26.1**	**21.5**	**1.8**	<0.5	49.4
	01/21/97	<0.5	**27**	**17.1**	NA	<0.5	44.1
	04/01/97	<0.63	**28**	**15**	NA	<0.46	43
	07/23/97	<0.63	**22**	**11**	**1.0**	<0.46	34
	11/18/97	<0.25	**20**	**13**	NA	<0.25	33
	03/23/98	<0.63	**15**	**10**	NA	<0.46	25
	07/27/98	<0.25	**8.4**	**4.5**	**1.8**	<0.25	14.7
	09/28/98	<0.63	**21**	**15**	**1.7**	<0.46	37.7
	12/08/98	<0.63	**24**	**14**	NA	<0.46	38
	03/12/99	<0.63	**21**	**13**	NA	<0.46	34
	09/25/03	<0.50	**25**	**6.1**	<0.25	<0.25	31.1
	12/15/03	<0.50	**34**	**10**	<0.20	<0.25	44
	12/14/05	<0.50	**91**	**21**	**0.27**	<0.20	112.27
	07/31/06	<1.0	**93**	**18**	NA	NA	111
	07/31/07	<0.50	**41**	**9.8**	<0.25	<0.20	50.8
	08/19/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/28/09	<0.50	**6.9**	**8**	<0.25	<0.20	14.9
	07/14/10	<0.50	**15**	**3.2**	<0.25	<0.20	18.2
	07/21/11	<0.50	**20**	**5.9**	<0.25	<0.20	25.9
MW-1026	07/10/12	<0.17	**25**	**7.3**	<0.28	<0.10	32.3

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-1026	07/24/13	<0.17	**15**	**4.4**	<0.28	<0.10	19.4
	07/29/14	<0.17	**7.4**	**1.8**	<0.28	<0.10	9.2
	07/14/15	<0.17	**18**	**5.3**	<0.28	<0.10	23.3
	07/29/16	<0.37	**21**	**6.2**	<0.35	<0.20	27.2
	07/13/17	<0.37	**14**	**3.6**	<0.35	<0.20	17.6
	07/30/18	<0.37	**11**	**2.7**	<0.35	<0.20	13.7
	07/18/19	<0.37	**2.8**	**0.98**	<0.35	<0.20	3.78
	07/22/20	<0.37	**3.2**	**1.3**	<0.35	<0.20	4.5
MW-1026	07/22/21	<0.37	**5.6**	**1.6**	<0.35	<0.20	7.2
MW-1027	10/29/91	<0.5	**780**	**1700**	<0.5	<0.3	2480
	12/12/91	<0.5	**500**	**1200**	<0.5	<0.3	1700
	11/11/93	<0.5	**1400**	**3000**	<0.5	<0.3	4400
	08/17/94	<1	**280**	**1800**	NA	<5	2080
	06/21/95	<0.34	**18.6**	**262**	<0.19	<0.27	280.6
	11/07/95	<0.5	**15.8**	**299**	NA	<0.5	314.8
	01/26/96	<0.5	**12.5**	**206**	NA	<0.5	218.5
	05/13/96	<0.5	**29.4**	**1620**	NA	<0.5	1649.4
	08/14/96	<0.5	**20**	**21.5**	<0.5	<0.5	41.5
	10/08/96	<0.5	**17.3**	**326**	<0.5	<0.5	343.3
	01/21/97	<0.5	**15.7**	**231**	NA	<0.5	246.7
	04/01/97	<0.63	**8.2**	**130**	NA	<0.46	138.2
	07/24/97	<0.63	**9.9**	**120**	<0.15	<0.46	129.9
	11/18/97	<0.25	**12**	**200**	NA	<0.25	212
	03/23/98	<0.63	**7.3**	**160**	NA	<0.46	167.3
	07/28/98	<1.2	**3.4**	**60**	<1.2	<1.2	63.4
	09/28/98	<0.63	**9.6**	**150**	<0.28	<0.46	159.6
	12/08/98	<1.3	**12**	**210**	NA	<0.46	222
	03/11/99	<3.2	**19**	**420**	NA	<2.3	439
	09/02/99	<3.2	**28**	**540**	NA	NA	568
	04/25/00	<3.2	**13**	**320**	NA	<2.3	333
	09/25/00	<3.2	**9.4**	**220**	NA	NA	229.4
	04/23/01	<1.0	**4.8**	**150**	NA	<1.0	154.8
MW-1027	10/02/01	<1.0	**7.5**	**240**	<1.0	NA	247.5

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-1027	04/16/02	<1.2	**15**	**330**	<1.2	NA	345
	11/19/02	<1.2	**17**	**260**	<1.2	NA	277
	06/24/03	<5.0	**13**	**200**	<2.5	NA	213
	10/20/03	<0.50	**16**	**230**	<0.25	NA	246
	09/21/04	<2.0	**21**	**170**	NA	<0.80	191
	12/14/05	<0.50	**45**	**96**	**0.38**	<0.20	141.38
	07/31/06	<1.0	**34**	**120**	NA	NA	154
	07/31/07	<0.50	**37**	**95**	<0.25	<0.20	132
	08/19/08	<0.50	**32**	**88**	<0.25	<0.20	120
MW-1027	07/28/09	<0.50	**22**	**52**	<0.25	<0.20	74
	07/14/10	<0.50	**19**	**100**	<0.25	<0.20	119
	07/21/11	<0.50	**8.5**	**65**	<0.25	<0.20	73.5
	07/10/12	<0.17	**6.3**	**57**	<0.28	<0.10	63.3
	07/24/13	<0.17	**6.2**	**47**	<0.28	<0.10	53.2
	07/29/14	<0.17	**6.1**	**42**	<0.28	<0.10	48.1
	07/14/15	<0.17	**3.7**	**39**	<0.28	<0.10	42.7
	07/29/16	<0.37	**6.8**	**34**	<0.35	<0.20	40.8
	07/13/17	<0.37	**7.1**	**27**	<0.35	<0.20	34.1
	07/30/18	<0.37	**4.9**	**27**	<0.35	<0.20	31.9
	07/17/19	<0.37	**4.9**	**41**	<0.35	<0.20	45.9
	07/22/20	<0.37	**2.5**	**37**	<0.35	<0.20	39.5
MW-1027	07/21/21	<0.37	**4.3**	**46**	<0.35	<0.20	50.3
TW-4	11/05/91	**0.50**	**10000**	**1100**	**5.6**	<0.3	11106.1
	12/12/91	**0.60**	**11000**	**1200**	**4.5**	<0.3	12205.1
	11/11/93	**0.80**	**6200**	**1500**	**3.2**	<0.3	7704
	08/17/94	<1	**3900**	**600**	NA	<5	4500
	12/14/94	<50	**4040**	**630**	NA	<50	4670
	03/13/95	ND	**3120**	**600**	NA	ND	3720
	06/21/95	NA	**4220**	**990**	**17.6**	**5.4**	5233
TW-4	11/08/95	**1.2**	**3340**	**920**	NA	<0.5	4261.2
	01/25/96	**1.1**	**3000**	**891**	NA	<0.5	3892.1
	05/14/96	**0.90**	**1820**	**969**	NA	<0.5	2789.9
TW-4	08/14/96	<0.5	**2150**	**179**	**1.8**	<0.5	2330.8

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-4	10/08/96	**0.90**	**1850**	**541**	**6.3**	<0.5	2398.2
	01/21/97	<0.5	**2650**	**913**	NA	<0.5	3563
TW-4	04/01/97	**0.83**	**1400**	**600**	NA	<0.46	2000.83
	07/23/97	**0.67**	**950**	**450**	**4.4**	<0.46	1405.07
	11/18/97	**0.83**	**760**	**490**	NA	<0.25	1250.83
	03/23/98	**0.74**	**780**	**530**	NA	<0.46	1310.74
TW-4	07/27/98	<2.5	**410**	**230**	<2.5	<2.5	640
	09/28/98	<0.63	**860**	**460**	**2.8**	<0.46	1322.8
	12/05/98	<6.3	**830**	**400**	NA	<4.6	1230
	03/11/99	<6.3	**480**	**270**	NA	<4.6	750
	09/02/99	<3.2	**180**	**110**	**2.4**	<2.3	292.4
	04/25/00	<3.2	**450**	**280**	NA	<2.3	730
	09/26/00	<6.3	**340**	**230**	<1.5	<4.6	570
	04/23/01	**0.60**	**290**	**240**	NA	<0.25	530.6
	10/02/01	<2.0	**190**	**140**	<2.0	<2.0	330
	04/16/02	<0.25	**76**	**60**	**1.5**	<0.25	137.5
TW-4	06/24/03	<1.0	**120**	**89**	**1.4**	<1.0	210.4
	09/21/04	<0.50	**64**	**39**	NA	<0.20	103
	12/14/05	<0.50	**65**	**35**	**0.92**	<0.20	100.92
	07/31/06	<0.50	**92**	**60**	**1.3**	<0.20	153.3
	07/31/07	<0.50	**50**	<0.20	<0.25	<0.20	50
	08/20/08	<0.50	**71**	**36**	**0.73**	<0.20	107.73
	07/28/09	<0.50	**52**	**25**	**0.34**	<0.20	77.34
TW-4	07/14/10	<0.50	**75**	**52**	**0.28**	<0.20	127.28
	07/21/11	<0.50	**38**	**42**	**0.28**	<0.20	80.28
	07/10/12	<0.17	**48**	**53**	<0.28	<0.10	101
	07/24/13	<0.17	**26**	**23**	<0.28	<0.10	49
	07/29/14	<0.17	**29**	**20**	<0.28	<0.10	49
	07/14/15	<0.17	**30**	**36**	<0.28	<0.10	66
TW-4	07/29/16	<0.37	**20**	**15**	<0.35	<0.20	35
	03/01/17	<0.37	**17**	**8.0**	<0.35	<0.20	25
	05/17/17	<0.37	**22**	**11**	<0.35	<0.20	33
TW-4	07/13/17	<0.37	**27**	**19**	<0.35	<0.20	46

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-4	10/24/17	<0.37	**22**	**16**	<0.35	<0.20	38
	02/28/18	<0.37	**20**	**11**	<0.35	<0.20	31
TW-4	05/10/18	<0.74	**27**	**16**	<0.33	<0.50	43
	07/30/18	<0.37	**26**	**18**	<0.35	<0.20	44
	07/18/19	<0.37	**26**	**18**	<0.35	<0.20	44
	07/23/20	<0.37	**20**	**21**	<0.35	<0.20	41
TW-4	07/22/21	<0.37	**19**	**14**	<0.35	<0.20	33
D-25R	10/29/91	<0.5	<0.5	**11**	<0.5	<0.3	11
	12/13/91	**0.60**	13	**13**	<0.5	<0.3	26.6
D-25R	11/11/93	<0.5	**6.0**	**4.7**	<0.5	<0.3	10.7
	08/17/94	<1	**3.1**	**4.6**	NA	<5	7.7
	12/13/94	**0.40**	**4.7**	**5.4**	NA	<0.5	10.5
	03/13/95	ND	**4.3**	**3.2**	NA	ND	7.5
	06/26/95	<0.34	**3.1**	<0.19	<0.19	<0.27	3.1
D-25R	11/07/95	<0.5	**5.1**	<0.5	NA	<0.5	5.1
	01/25/96	<0.5	**4.7**	**5.1**	NA	<0.5	9.8
	05/14/96	<0.5	**6.9**	**6.3**	NA	<0.5	13.2
	08/14/96	**1.5**	**43.7**	**38.3**	<0.5	<0.5	83.5
D-25R	10/09/96	<0.5	**8.2**	**10.1**	<0.5	<0.5	18.3
	01/20/97	<0.5	**10.4**	<0.5	NA	<0.5	10.4
	04/01/97	**0.77**	**11**	**9.1**	NA	<0.46	20.87
	07/24/97	**0.86**	**9.5**	**9.8**	<0.15	<0.46	20.16
	11/18/97	**0.84**	**6.7**	**8.7**	NA	<0.25	16.24
	03/23/98	**0.71**	**5**	**7.5**	NA	<0.46	13.21
	07/28/98	<0.25	**2.1**	**2.7**	<0.25	<0.25	4.8
	09/28/98	**0.78**	**6.6**	**9.2**	<0.28	<0.46	16.58
	12/08/98	**0.70**	**6.5**	**8.7**	NA	<0.46	15.9
	03/12/99	**0.78**	**5.6**	**7.7**	NA	<0.46	14.08
	09/02/99	**0.72**	**6.7**	**8.4**	NA	NA	15.82
	04/25/00	**1.0**	**3.5**	**4.0**	NA	<0.46	8.5
	09/26/00	**0.82**	**4.5**	**4.7**	NA	NA	10.02
	04/23/01	**0.45**	**3.1**	**4.3**	NA	<0.25	7.85
D-25R	10/02/01	**0.58**	**4.0**	**3.8**	<0.25	NA	8.38

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-25R	04/16/02	**0.58**	**4.3**	**4.7**	<0.25	NA	9.58
	11/19/02	**0.87**	**7.6**	**6.2**	<0.25	NA	14.67
D-25R	06/24/03	**0.86**	**6.1**	**7.7**	<0.25	NA	14.66
D-25R	10/20/03	**0.71**	**4.3**	**4.6**	<0.25	NA	9.61
	09/21/04	**0.61**	**3.5**	**3.3**	NA	<0.20	7.41
	12/13/05	**0.59**	**15**	**12**	<0.25	<0.20	27.59
D-25R	07/31/06	**0.53**	**12**	**25**	NA	NA	37.53
	07/31/07	<0.50	**8.0**	**12**	<0.25	<0.20	20
	08/20/08	**0.51**	**7.3**	**8.3**	<0.25	<0.20	16.11
D-25R	07/28/09	<0.50	**6.2**	**6.0**	<0.25	<0.20	12.2
	07/13/10	<0.50	**8.4**	**7.6**	<0.25	<0.20	16
	07/20/11	<0.50	**1.4**	**2.7**	<0.25	<0.20	4.1
	07/10/12	<0.17	**1.3**	**1.4**	<0.28	<0.10	2.7
	07/24/13	<0.17	**1.0**	**1.0**	<0.28	<0.10	2
D-25R	07/29/14	<0.17	**0.7**	**0.82**	<0.28	<0.10	1.49
	07/14/15	<0.17	<0.20	**0.71**	<0.28	<0.10	0.71
	07/28/16	<0.37	<0.38	**0.57**	<0.35	<0.20	0.57
	07/12/17	<0.37	**2.9**	**2.3**	<0.35	<0.20	5.2
	07/30/18	<0.37	<0.38	**0.55**	<0.35	<0.20	0.55
	07/17/19	<0.37	**0.55**	**0.54**	<0.35	<0.20	1.09
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
D-25R	07/21/21	<0.37	<0.38	**0.46**	<0.35	<0.20	0.46
EX-2	11/07/91	<0.5	**870**	**210**	**1.1**	<0.3	1081.1
	12/18/91	<0.5	**1260**	**268**	**1.4**	<0.3	1529.4
Original	11/11/93	<0.5	**890**	**250**	**1.3**	<0.3	1141.3
Extraction	12/13/94	<0.5	**17.3**	**3.5**	NA	<0.5	20.8
Wells	06/21/95	<0.34	**375**	**96.4**	<0.19	<0.27	471.4
EX-2 /	08/14/96	<0.5	**99.8**	**52**	<0.5	<0.5	151.8
EX-2R	07/25/97	<0.63	**1.2**	**2.6**	<0.15	<0.46	3.8
	07/28/98	<0.25	**0.79**	**2.1**	<0.25	<0.25	2.89
	09/07/99	<0.63	**15**	**34**	NA	NA	49
	04/18/00	<0.63	**1.3**	**3.7**	NA	<0.46	5
EX-2R	09/26/00	<0.63	**18**	**36**	NA	<0.46	54

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-2R	04/19/01	<0.25	**2.6**	**8.4**	NA	<0.25	11
	10/02/01	<0.25	**16**	**34**	<0.25	NA	50
	04/16/02	<0.25	**8.4**	**22**	<0.25	NA	30.4
	06/24/03	<0.50	**0.69**	**2.9**	<0.25	NA	3.59
EX-2R	09/21/04	<0.50	**11**	**25**	NA	<0.20	36
	07/31/06	<0.50	**0.61**	**1.7**	NA	NA	2.31
	07/31/07	<0.50	**6.3**	**6.7**	<0.25	<0.20	13
	08/20/08	<0.50	**15**	**22**	<0.25	<0.20	37
EX-2R	07/28/09	<0.50	**5.0**	**4.5**	<0.25	<0.20	9.5
	10/05/10	<0.50	**8.2**	**21**	<0.25	<0.20	29.2
	07/21/11	<0.50	**5.0**	**15**	<0.25	<0.20	20
EX-2R	07/11/12	<0.17	**3.2**	**9.8**	<0.28	<0.10	13
	07/24/13	<0.17	**4.6**	**7.0**	<0.28	<0.10	11.6
	07/30/14	<0.17	**3.3**	**5.8**	<0.28	<0.10	9.1
	07/15/15	<0.17	**1.4**	**3.8**	<0.28	<0.10	5.2
	07/28/16	<0.37	**4.2**	**7.1**	<0.35	<0.20	11.3
	10/24/17	<0.37	**3.7**	**6.3**	<0.35	<0.20	10
	07/31/18	<0.37	**1.7**	**3.6**	<0.35	<0.20	5.3
	07/18/19	<0.37	**1.0**	**2.8**	<0.35	<0.20	3.8
	07/23/20	<0.37	<0.38	**2.4**	<0.35	<0.20	2.4
EX-2R	07/22/21	<0.37	**0.47**	**2.1**	<0.35	<0.20	2.57
EX-3	11/07/91	<0.5	**50**	**14**	<0.5	<0.3	64
	12/18/91	<0.5	30.3	**9.5**	<0.5	<0.3	39.8
Original	11/11/93	<0.5	<0.5	<0.5	<0.5	<0.3	0
Extraction	12/13/94	<0.5	**14.4**	**5.8**	NA	<0.5	20.2
Wells	06/21/95	<0.34	**8.7**	**4.0**	<0.19	<0.27	12.7
	08/14/96	<0.5	**4.5**	**3.6**	<0.5	<0.5	8.1
	07/25/97	<0.63	**93**	**52**	**0.4**	<0.46	145.4
EX-3	07/28/98	<0.25	**30**	**28**	<0.25	<0.25	58
	09/07/99	<0.63	**22**	**26**	NA	NA	48
	04/18/00	<0.63	**37**	**55**	NA	<0.46	92
	09/26/00	<0.63	**25**	**28**	NA	NA	53
EX-3	04/19/01	<0.25	**27**	**38**	NA	<0.25	65

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-3	10/02/01	<0.25	**13**	**17**	<0.25	NA	30
	04/16/02	<0.25	**21**	**28**	<0.25	NA	49
	06/24/03	<0.50	**23**	**46**	<0.25	NA	69
	09/21/04	<0.50	**13**	**17**	NA	<0.20	30
EX-3	12/14/05	<0.50	**28**	**34**	**0.29**	<0.20	62.29
	07/31/06	<0.50	**32**	**66**	NA	NA	98
	07/31/07	<0.50	**15**	**25**	<0.25	<0.20	40
	08/20/08	<0.50	**7.5**	**3.6**	<0.25	<0.20	11.1
	07/28/09	<0.50	**14**	**21**	<0.25	<0.20	35
	07/14/10	<0.50	**38**	**29**	**0.34**	<0.20	67.34
EX-3	07/21/11	<0.50	**34**	**33**	**0.33**	<0.20	67.33
	07/11/12	<0.17	**15**	**18**	<0.28	<0.10	33
	07/24/13	<0.17	**2.2**	**2.2**	<0.28	<0.10	4.4
	07/30/14	<0.17	**1.6**	**2.2**	<0.28	<0.10	3.8
EX-3/	07/15/15	<0.17	**3.1**	**3.5**	<0.28	<0.10	6.6
EX-3R	10/24/17	<0.37	**2.3**	**3.3**	<0.35	<0.20	5.6
	07/31/18	<0.37	**2.4**	**2.4**	<0.35	<0.20	4.8
	07/18/19	<0.37	**4.5**	**5.2**	<0.35	<0.20	9.7
	07/23/20	<0.37	**5.0**	**6.3**	<0.35	<0.20	11.3
EX-3R	07/22/21	<0.37	**4.2**	**5.6**	<0.35	<0.20	9.8
EX-4R	07/18/19	<0.37	**1.0**	**1.0**	<0.35	<0.20	2
EX-5R	07/18/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
EX-6	07/18/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
SS-1	11/11/93	**0.90**	**71**	**24**	<0.5	<0.3	95.9
	08/16/94	<1	**55**	**25**	NA	<5	80
Storm Sewer	12/14/94	0.10	**11.2**	**3.0**	NA	<0.5	14.3
Outfall	06/21/95	<0.34	**31.2**	**18.1**	<0.19	<0.27	49.3
	11/06/95	<0.5	**21.7**	<0.5	NA	<0.5	21.7
	01/25/96	**2.6**	**17.1**	**21.1**	NA	<0.5	40.8
SS-1	05/13/96	**0.60**	**12.6**	**8.2**	NA	<0.5	21.4
	08/13/96	**0.70**	**8.3**	**7.8**	<0.5	<0.5	16.8
	10/08/96	**0.70**	**6.7**	**8.8**	<0.5	<0.5	16.2
SS-1	01/20/97	**0.70**	**8.1**	**8.9**	<0.5	<0.5	17.7

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
SS-1	04/01/97	**0.74**	**5.8**	**6.6**	NA	<0.46	13.14
	07/23/97	<0.63	**1.2**	**1.5**	<0.15	<0.46	2.7
	11/18/97	<0.25	**4.9**	**4.9**	NA	<0.25	9.8
SS-1	09/02/99	**3.4**	**3.1**	**17**	NA	<0.46	23.5
	09/25/00	<0.63	**0.37**	**2.1**	NA	NA	2.47
	10/01/01	<0.25	**1.5**	**3.7**	<0.25	<0.25	5.2
SS-1	04/17/02	**1.1**	**1.4**	**5.2**	<0.25	NA	7.7
	12/04/02	**0.71**	**1.2**	**4.4**	<0.25	<0.25	6.31
	03/08/04	<0.50	**0.90**	**2.5**	<0.25	<0.20	3.4
	04/05/04	<0.50	<0.50	**3.2**	<0.25	<0.20	3.2
	06/22/05	**0.78**	**0.52**	**2.2**	<0.25	<0.20	3.5
	12/07/05	**1.8**	**0.67**	**0.64**	<0.25	<0.20	3.11
SS-1	08/01/06	**0.71**	<0.50	**1.6**	NA	<0.20	2.31
	08/01/07	<0.50	**0.80**	**1.9**	<0.25	<0.20	2.7
	08/20/08	**0.50**	<0.50	**0.79**	<0.25	<0.20	1.29
	07/28/09	<0.50	**1.8**	**3.2**	<0.25	<0.20	5
	07/20/10	<0.50	<0.50	**0.47**	<0.25	<0.20	0.47
	07/13/11	<0.50	<0.50	**1.5**	<0.25	<0.20	1.5
	07/10/12	<0.17	<0.20	**1.5**	<0.28	<0.10	1.5
	07/15/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/14/14	<0.17	<0.20	**0.75**	<0.28	<0.10	0.75
SS-1	07/06/15	**0.67**	<0.20	**0.85**	<0.28	<0.10	1.52
	07/20/16	<0.37	<0.38	**0.88**	<0.35	<0.20	0.88
	07/19/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/11/18	<0.37	<0.38	**0.51**	<0.35	<0.20	0.51
	07/23/19	<0.37	<0.38	**0.51**	<0.35	<0.20	0.51
	07/23/20	<0.37	<0.38	**0.55**	<0.35	<0.20	0.55
SS-1	06/09/21	<0.37	<0.38	**0.42**	NA	<0.20	0.42

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
Plant #2							
D-18	11/04/91	<0.5	<0.5	**1.5**	<0.5	<0.3	1.5
D-18	12/12/91	**0.90**	0.5	**2.1**	<0.5	<0.3	3.5
Southeast	11/11/93	<0.5	<0.5	<0.5	<0.5	<0.3	0
Source Area	08/16/94	<1	<1	**1.2**	NA	<5	1.2
and	12/13/94	**0.40**	**0.20**	**1.8**	NA	**0.30**	2.7
Former Sump	03/13/95	**5.5**	**3.2**	**30.6**	NA	ND	39.3
Source Area	06/21/95	**1.5**	<0.13	**4.0**	<0.19	<0.27	5.5
Monitor	11/06/95	**1.0**	<0.5	**6.3**	NA	<0.5	7.3
Wells	01/25/96	**1.6**	<0.5	**5.2**	NA	<0.5	6.8
D-18	05/13/96	**<0.5**	<0.5	<0.5	NA	<0.5	0
D-18	08/13/96	**1.2**	<0.5	**2.5**	<0.5	<0.5	3.7
D-18	10/08/96	<0.5	<0.5	**2.2**	<0.5	<0.5	2.2
	01/20/97	**1.8**	<0.5	<0.5	NA	<0.5	1.8
	03/31/97	**3.3**	<0.28	**4.1**	NA	<0.46	7.4
	07/23/97	**2.7**	<0.28	**2.8**	<0.15	<0.46	5.5
	11/17/97	**4.1**	<0.28	**3.9**	NA	<0.48	8
	03/23/98	**4.2**	<0.28	**4.9**	NA	<0.46	9.1
	07/27/98	**2.2**	<0.25	**4.8**	<0.15	<0.25	7
	09/25/98	**9.1**	**1.4**	**38**	<0.28	<0.46	48.5
D-18	12/08/98	**6.2**	<0.28	**8.5**	NA	<0.46	14.7
	03/11/99	**4.6**	<0.28	**11**	NA	<0.46	15.6
	09/07/99	**2.6**	<0.28	**4.8**	NA	NA	7.4
	04/25/00	**4.9**	<0.28	**6.6**	NA	<0.46	11.5
	09/25/00	**2.5**	<0.28	**2.4**	NA	NA	4.9
	04/19/01	**3.0**	<0.25	**3.8**	NA	<0.25	6.8
	09/27/01	**3.2**	<0.25	**6.6**	<0.25	NA	9.8
	04/17/02	**2.6**	<0.25	**3.0**	<0.25	NA	5.6
	06/20/03	**9.1**	<0.50	**20**	<0.25	NA	29.1
D-18	10/20/03	**Not Sampled.**					
	09/20/04	**3.4**	<0.50	**1.9**	NA	<0.20	5.3
	12/14/05	<0.50	<0.50	**0.24**	<0.25	<0.20	0.24
D-18	07/31/06	<0.50	<0.50	<0.20	NA	NA	0

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-18	07/31/07	<0.50	<0.50	<0.20	<0.25	<0.20	0
	08/19/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/28/09	**1.4**	<0.50	**1.0**	<0.25	<0.20	2.4
	07/13/10	<0.50	<0.50	<0.20	<0.25	<0.20	0
D-18	07/20/11	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/10/12	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/29/14	<0.17	<0.20	<0.19	<0.28	<0.10	0
D-18	07/14/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/28/16	<0.37	<0.38	**0.47**	<0.35	<0.20	0.47
	07/12/17	<0.37	<0.38	**0.61**	<0.35	<0.20	0.61
D-18	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
D-18	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2004	10/29/91	**6.4**	**4.8**	**37**	<0.5	<0.3	48.2
	12/13/91	**11**	**2.6**	**61**	<0.5	<0.3	74.6
	11/11/93	**2.5**	**14**	**5.6**	<0.5	<0.3	22.1
	12/13/94	**0.70**	**0.20**	**1.8**	NA	**0.3**	3
	06/21/95	**3.2**	**17.6**	**14.2**	**3.4**	<0.27	38.4
	08/13/96	**0.96**	**7.2**	**5.2**	<0.5	<0.5	13.36
	07/23/97	<0.63	**1.9**	**1.7**	<0.15	<0.46	3.6
MW-2004	07/27/98	<0.25	<0.25	**0.94**	<0.15	<0.25	0.94
	09/07/99	<0.63	<0.28	<0.49	NA	NA	0
	04/26/00	<0.63	<0.28	<0.49	NA	NA	0
	09/27/01	<0.25	<0.25	<0.25	<0.25	NA	0
	11/18/02	<0.25	<0.25	<0.25	<0.25	NA	0
	06/20/03	<0.50	<0.50	<0.25	<0.25	NA	0
	09/20/04	<0.50	<0.50	<0.20	NA	<0.20	0
	12/13/05	<0.50	<0.50	**0.50**	<0.25	<0.20	0.5
	07/29/06	<0.50	<0.50	**0.37**	NA	NA	0.37
	07/31/07	<0.50	<0.50	<0.20	<0.25	<0.20	0
	08/19/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
MW-2004	07/28/09	<0.50	<0.50	<0.20	<0.25	<0.20	0

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-2004	07/13/10	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/20/11	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/10/12	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
MW-2004	07/29/14	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/14/15	<0.17	<0.20	**0.65**	<0.28	<0.10	0.65
	07/28/16	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/12/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2004	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2005	10/28/91	**30**	**2.7**	**20**	<0.5	<0.3	52.7
	12/13/91	**32**	**3.0**	**23**	<0.5	<0.3	58
MW-2005	11/11/93	**47**	**3.1**	**31**	<0.5	<0.3	81.1
	12/13/94	**0.40**	<0.5	<0.5	NA	<0.5	0.4
	08/16/94	<1	<1	<1	NA	<5	0
	06/21/95	**0.70**	<0.13	**0.70**	<0.19	<0.27	1.4
	11/07/95	**1.9**	<0.5	**2.7**	NA	<0.5	4.6
	01/25/96	**10.9**	<0.5	**5.2**	NA	<0.5	16.1
	05/13/96	<0.5	<0.5	<0.5	NA	<0.5	0
	08/13/96	**10.2**	<0.5	**2.1**	<0.5	<0.5	12.3
	10/08/96	**13**	<0.5	<0.5	<0.5	<0.5	13
	01/20/97	**24**	<0.5	**10.1**	NA	<0.5	34.1
MW-2005	04/01/97	**47**	0.76	**8.8**	NA	<0.46	56.56
	07/23/97	<0.63	15	**1.6**	<0.15	<0.46	16.6
	11/18/97	**2.7**	<0.25	**0.33**	NA	<0.25	3.03
	03/23/98	**3.0**	<0.28	**0.51**	NA	<0.46	3.51
	07/21/98	**19**	<0.25	**1.3**	<0.15	<0.25	20.3
	09/25/98	**14**	<0.28	**1.1**	<0.28	<0.46	15.1
	12/05/98	**6.2**	<0.28	**5.2**	NA	<0.46	11.4
	03/12/99	**7.8**	<0.28	**8.9**	NA	<0.46	16.7
	09/07/99	**7.8**	<0.28	**1.0**	NA	NA	8.8
MW-2005	04/25/00	**1.2**	<0.28	<0.49	NA	<0.46	1.2

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-2005	09/25/00	**1.7**	<0.28	<0.49	NA	NA	1.7
	04/19/01	**5.7**	<0.25	**0.60**	NA	<0.25	6.3
	09/27/01	**7.5**	<0.25	**0.62**	<0.25	NA	8.12
MW-2005	04/17/02	**9.8**	<0.25	**0.89**	<0.25	NA	10.69
	06/20/03	**6.0**	<0.50	**0.87**	<0.25	NA	6.87
MW-2005	09/20/04	**17**	<0.50	**1.3**	NA	<0.20	18.3
MW-2005R	07/30/07	**2.8**	<0.50	<0.20	<0.25	<0.20	2.8
	08/18/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/27/09	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/13/10	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/20/11	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/10/12	<0.17	<0.20	<0.19	<0.28	<0.10	0
MW-2005R	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/29/14	**2.9**	<0.20	<0.19	<0.28	<0.10	2.9
	07/14/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/28/16	**2.4**	<0.38	<0.16	<0.35	<0.20	2.4
	07/12/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2005R	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2011	07/30/07	<0.50	**2.9**	**30**	<0.25	<0.20	32.9
	08/18/08	<0.50	**2.0**	**12**	<0.25	<0.20	14
MW-2011	07/27/09	<0.50	**1.5**	**14**	<0.25	<0.20	15.5
	07/13/10	<0.50	**2.8**	**13**	<0.25	<0.20	15.8
MW-2011	07/20/11	<0.50	**2.7**	**20**	<0.25	<0.20	22.7
	07/10/12	<0.17	**3.4**	**39**	<0.28	<0.10	42.4
MW-2011	07/24/13	<0.17	**2.3**	**9.0**	<0.28	<0.10	11.3
	07/29/14	<0.17	**4.1**	**35**	<0.28	<0.10	39.1
	07/14/15	<0.17	<0.20	**7.2**	<0.28	<0.10	7.2
	07/28/16	<0.37	**3.3**	**29**	<0.35	<0.20	32.3
	07/12/17	<0.37	**2.1**	**16**	<0.35	<0.20	18.1
MW-2011	07/30/18	<0.37	**1.2**	**7.6**	<0.35	<0.20	8.8

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-2011	07/17/19	<0.37	**2.2**	**13**	<0.35	<0.20	15.2
	07/22/20	<0.37	**2.0**	**13**	<0.35	<0.20	15
MW-2011	07/21/21	<0.37	**2.0**	**14**	<0.35	<0.20	16
D-15	11/05/91	**26**	**45**	**420**	<0.5	<0.3	491
D-15	12/12/91	**24**	31	**390**	<0.5	<0.3	445
	11/11/93	**11**	12	**350**	<0.5	<0.3	373
	08/16/94	**15**	**15**	**220**	NA	<5	250
D-15	12/13/94	**7.8**	**3.1**	**105**	NA	<5	115.9
	03/13/95	**10.6**	**4.0**	**126**	NA	ND	140.6
	06/21/95	**13**	**8.6**	**119**	<0.19	<0.27	140.6
	11/06/95	**13.4**	**4.4**	**113**	NA	<0.5	130.8
D-15	01/25/96	**11.5**	**2.3**	**92.8**	NA	<0.5	106.6
	05/13/96	**6.7**	<0.5	**54**	NA	<0.5	60.7
	08/15/96	**8.0**	**1.7**	**46**	<0.5	<0.5	55.7
	10/08/96	**6.4**	**1.4**	**70.4**	<0.5	<0.5	78.2
D-15	01/20/97	**10.9**	<0.5	**61**	NA	<0.5	71.9
	03/31/97	**10**	**0.83**	**53**	NA	<0.46	63.83
	07/23/97	**10**	<0.28	**68**	<0.15	<0.46	78
	11/17/97	**15**	**0.97**	**83**	NA	<0.48	98.97
	03/23/98	**16**	**0.48**	**78**	NA	<0.46	94.48
	07/27/98	**Not Sampled.**					
	09/26/98	**29**	**0.56**	**170**	<0.28	<0.46	199.56
	12/08/98	**74**	**0.77**	**1000**	NA	<0.46	1074.77
	03/11/99	**19**	<0.56	**84**	NA	<0.92	103
	09/07/99	**22**	<0.56	**120**	NA	NA	142
	04/25/00	**8.7**	**0.61**	**33**	NA	<0.46	42.31
D-15	09/28/00	**19**	**0.77**	**85**	NA	NA	104.77
	04/19/01	**50**	<2.5	**470**	NA	<2.5	520
	09/27/01	**54**	<2.5	**370**	<2.5	NA	424
D-15	04/15/02	**17**	**0.47**	**62**	<2.5	NA	79.47
	11/19/02	**16**	**0.48**	**61**	<0.25	NA	77.48
	06/20/03	**11**	<0.50	**39**	<0.25	NA	50
D-15	10/20/03	**7.5**	<0.50	**29**	<0.25	NA	36.5

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-15	09/20/04	**18**	<0.50	**36**	NA	<0.20	54
	12/13/05	**6.8**	<0.50	**27**	<0.25	<0.20	33.8
	07/27/06	**6.8**	<0.50	**18**	NA	NA	24.8
D-15	07/31/07	**7.2**	<0.50	**16**	<0.25	<0.20	23.2
	08/18/08	**10**	<0.50	**21**	<0.25	<0.20	31
	07/27/09	**11**	<0.50	**21**	<0.25	<0.20	32
D-15	07/13/10	**47**	<0.50	**42**	<0.25	<0.20	89
	07/20/11	**7.9**	<0.50	**13**	<0.25	<0.20	20.9
	07/10/12	**6.2**	<0.20	**13**	<0.28	<0.10	19.2
	07/24/13	**8.9**	<0.20	**13**	<0.28	<0.10	21.9
	07/29/14	**4.2**	<0.20	**7.7**	<0.28	<0.10	11.9
D-15	07/14/15	**4.4**	<0.20	**8.5**	<0.28	<0.10	12.9
	07/28/16	**10**	<0.38	**13**	<0.35	<0.20	23
	07/12/17	**9.8**	<0.38	**12**	<0.35	<0.20	21.8
D-15	07/31/18	**6.3**	<0.38	**7.0**	<0.35	<0.20	13.3
	07/17/19	**8.3**	<0.38	**8.4**	<0.35	<0.20	16.7
	07/22/20	**13**	<0.38	**11**	<0.35	<0.20	24
D-15	07/21/21	**4.0**	<0.38	**4.6**	<0.35	<0.20	8.6
TW-1	10/29/91	<0.5	**1.3**	**18**	<0.5	<0.3	19.3
	12/13/91	**4.9**	**1.1**	**48**	<0.5	<0.3	54
	11/11/93	**4.0**	**9.1**	**20**	<0.5	<0.3	33.1
	08/16/94	**2.4**	<1	**14**	NA	<5	16.4
	12/13/94	**0.40**	**0.30**	**4.1**	NA	<0.5	4.8
	03/13/95	NA	**NA**	**NA**	NA	NA	0
	06/21/95	**1.1**	**1.8**	**4.9**	<0.19	<0.27	7.8
	11/07/95	**1.0**	<0.5	**8.7**	NA	<0.5	9.7
	01/25/96	**1.5**	**1.3**	**4.7**	NA	<0.5	7.5
	05/13/96	**1.1**	**0.60**	**2.9**	NA	<0.5	4.6
TW-1	08/13/96	**0.90**	**0.70**	**2.7**	<0.5	<0.5	4.3
	10/08/96	<0.5	<0.5	<0.5	<0.5	<0.5	0
	01/20/97	**2.1**	**3.0**	**10**	NA	<0.5	15.1
	03/31/97	**2.0**	**3.1**	**5.9**	NA	<0.46	11
TW-1	07/23/97	**0.88**	**0.74**	**2.5**	<1.1	<0.46	4.12

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-1	11/17/97	**0.88**	**0.55**	**2.0**	NA	<0.48	3.43
	03/23/98	<0.63	<0.28	**1.7**	NA	<0.46	1.7
	07/28/98	<0.25	<0.25	**1.7**	<0.15	<0.25	1.7
TW-1	09/26/98	<0.63	<0.28	**1.7**	<0.28	<0.46	1.7
	12/08/98	<0.63	<0.28	**1.5**	NA	<0.46	1.5
	03/12/99	<0.63	<0.28	**1.0**	NA	<0.46	1
	09/07/99	<0.63	**0.57**	**2.4**	NA	NA	2.97
	09/26/00	**1.1**	**0.81**	**7.3**	NA	NA	9.21
TW-1	09/28/01	<0.25	<0.25	**1.2**	<0.25	NA	1.2
	12/13/05	<0.50	<0.50	**0.22**	<0.25	<0.20	0.22
TW-1	12/13/05	<0.50	<0.50	**0.22**	<0.25	<0.20	0.22
	07/29/06	<0.50	<0.50	**0.20**	NA	NA	0.2
	07/31/07	<0.50	<0.50	**1.2**	<0.25	<0.20	1.2
	08/19/08	**0.53**	<0.50	**0.62**	<0.25	<0.20	1.15
	07/28/09	<0.50	<0.50	**0.27**	<0.25	<0.20	0.27
TW-1	07/13/10	<0.50	<0.50	**0.38**	<0.25	<0.20	0.38
	07/20/11	<0.50	<0.50	**0.28**	<0.25	<0.20	0.28
	07/10/12	<0.17	<0.20	**0.31**	<0.28	<0.10	0.31
TW-1	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/29/14	<0.17	<0.20	<0.19	<0.28	<0.10	0
TW-1	07/14/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/28/16	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/12/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
TW-1	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
TW-3	10/30/91	**6.8**	**1.7**	**19**	<0.5	<0.3	27.5
	12/12/91	**8.3**	**1.3**	**22**	<0.5	<0.3	31.6
	11/11/93	**7.5**	**0.70**	**12**	<0.5	<0.3	20.2
	12/14/94	**5.3**	**11.6**	**5.5**	NA	<0.5	22.4
TW-3	06/21/95	**5.5**	**11.9**	**7.4**	<0.19	<0.27	24.8
TW-3	08/13/96	**2.3**	**9.7**	**8.1**	<0.5	<0.5	20.1

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-3	07/23/97	**1.7**	**3.6**	**4.3**	<0.15	<0.46	9.6
	07/28/98	<0.25	**1.0**	**1.6**	<0.15	<0.25	2.6
	09/07/99	**1.9**	**1.1**	**3.2**	NA	NA	6.2
TW-3	04/25/00	**1.2**	**0.74**	**1.9**	NA	<0.46	3.84
	09/25/00	**1.5**	**0.72**	**3.0**	NA	NA	5.22
	04/19/01	**2.7**	**0.68**	**6.0**	NA	<0.25	9.38
	09/27/01	**7.5**	**1.3**	**21.0**	<0.25	NA	29.8
	04/16/02	**2.1**	**0.40**	**3.2**	<0.25	NA	5.7
	11/19/02	**4.0**	**0.53**	**7.8**	<0.25	NA	12.33
	06/24/03	**2.5**	<0.50	**2.6**	<0.25	NA	5.1
TW-3	10/20/03	**2.8**	<0.50	**2.0**	<0.25	NA	4.8
	09/20/04	**2.8**	<0.50	**2.8**	NA	<0.20	5.6
	12/13/05	**1.7**	<0.50	**1.6**	<0.25	<0.20	3.3
TW-3	07/27/06	**1.4**	<0.50	**1.2**	NA	NA	2.6
	07/31/07	**0.97**	<0.50	**0.94**	<0.25	<0.20	1.91
	08/20/08	**1.5**	<0.50	**0.79**	<0.25	<0.20	2.29
TW-3	07/27/09	**1.8**	<0.50	**0.86**	<0.25	<0.20	2.66
	07/13/10	**3.1**	<0.50	**4.9**	<0.25	<0.20	8
	07/20/11	**1.5**	<0.50	**0.63**	<0.25	<0.20	2.13
TW-3	07/10/12	**2.7**	<0.20	**1.1**	<0.28	<0.10	3.8
	07/24/13	**1.3**	<0.20	**0.61**	<0.28	<0.10	1.91
	07/29/14	**0.63**	<0.20	**0.38**	<0.28	<0.10	1.01
TW-3	07/14/15	<0.17	<0.20	**0.64**	<0.28	<0.10	0.64
	07/28/16	**0.54**	<0.38	**0.29**	<0.35	<0.20	0.83
	07/12/17	**0.59**	<0.38	<0.16	<0.35	<0.20	0.59
	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	**0.91**	<0.38	<0.16	<0.35	<0.20	0.91
TW-3	07/21/21	**0.85**	<0.38	**0.26**	<0.35	<0.20	1.11
EX-1	11/07/91	**8.2**	**3.7**	**20**	<0.5	<0.3	31.9
Original	12/18/91	**6.3**	**3.9**	**14.6**	<0.5	<0.3	24.8
Extraction	11/11/93	**6.8**	**2.3**	**13**	<0.5	<0.3	22.1
Well	12/13/94	**4.7**	**2.7**	**11**	NA	<0.5	18.4

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-1	06/21/95	**6.2**	<0.13	**14.7**	<0.19	<0.27	20.9
	08/13/96	**2.8**	**1.6**	**6.7**	<0.5	<0.5	11.1
	07/23/97	**3.1**	**1.5**	**5.4**	<0.15	<0.46	10
	07/28/98	<0.25	**0.47**	**5.2**	<0.15	<0.25	5.67
EX-1	09/07/99	**3.4**	**0.32**	**8.7**	NA	NA	12.42
	09/26/00	**3.0**	**0.39**	**11**	NA	NA	14.39
	10/02/01	**7.1**	<0.25	**27**	<0.25	NA	34.1
	09/21/04	**3.8**	<0.50	**4.2**	NA	<0.20	8
	12/14/05	**1.4**	<0.50	**1.4**	<0.25	<0.20	2.8
	07/31/06	**1.4**	<0.50	**1.5**	NA	NA	2.9
	07/31/07	**1.3**	<0.50	**0.84**	<0.25	<0.20	2.14
	08/20/08	**1.1**	<0.50	**0.75**	<0.25	<0.20	1.85
	07/14/10	**1.7**	<0.50	**3.1**	<0.25	<0.20	4.8
	07/21/11	**1.1**	<0.50	**1.0**	<0.25	<0.20	2.1
	07/11/12	**1.3**	<0.20	**1.2**	<0.28	<0.10	2.5
EX-1	07/24/13	**0.89**	<0.20	**0.47**	<0.28	<0.10	1.36
	07/30/14	**0.71**	<0.20	**0.42**	<0.28	<0.10	1.13
	07/15/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
EX-1	07/28/16	**0.72**	<0.38	<0.16	<0.35	<0.20	0.72
	07/13/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/31/18	**0.60**	<0.38	**0.30**	<0.35	<0.20	0.9
	07/18/19	**0.53**	<0.38	**0.30**	<0.35	<0.20	0.83
	07/23/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
EX-1	07/22/21	<0.37	<0.38	**0.31**	<0.35	<0.20	0.31
EX-7	11/07/91	**37**	**5.0**	**350**	<0.5	<0.3	392
Original	12/18/91	**44**	**5.1**	**241**	<0.5	<0.3	290.1
Extraction	11/11/93	**27**	**8.1**	**160**	<0.5	<0.3	195.1
Well	12/13/94	**19.6**	**0.80**	**62.8**	NA	<0.5	83.2
	06/21/95	**60.6**	<0.13	**105**	<0.19	<0.27	165.6
EX-7	08/13/96	**48.3**	<0.5	**243**	<0.5	<0.5	291.3
	07/23/97	**24**	**0.49**	**130**	<0.15	<0.5	154.49
	07/28/98	<50	<50	**1000**	<50	<50	1000
EX-7	09/07/99	**130**	<2.8	**490**	NA	NA	620

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Flow Technologies, LLC Delavan Facility Monitoring

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-7	04/18/00	**77**	**0.87**	**150**	NA	<0.46	227.87
	09/26/00	**56**	<0.56	**140**	NA	NA	196
	04/19/01	**56**	<1.0	**110**	NA	<1.0	166
EX-7	04/16/02	**19**	<0.25	**35**	NA	<1.0	54
	11/19/02	**26**	**0.40**	**58**	<0.25	NA	84.4
EX-7	06/24/03	**20**	<0.50	**26**	<0.25	NA	46
	10/20/03	<0.50	<0.50	**30**	<0.25	NA	30
	09/21/04	**25**	<0.50	**36**	NA	<0.20	61
	12/14/05	**14**	<0.50	**29**	<0.25	<0.20	43
	07/31/06	**14**	<0.50	**22**	NA	NA	36
	07/31/07	**9.0**	<0.50	**10**	<0.25	<0.20	19
	08/20/08	**6.2**	<0.50	**7.5**	<0.25	<0.20	13.7
	07/29/09	**7.5**	<0.50	**9.3**	<0.25	<0.20	16.8
	07/15/10	**98**	<0.50	**130**	<0.25	<0.20	228
	07/21/11	**7.8**	<0.50	**8.6**	<0.25	<0.20	16.4
	07/11/12	**7.0**	<0.20	<0.19	<0.28	<0.10	7
	07/24/13	**5.6**	<0.20	**3.9**	<0.28	<0.10	9.5
	07/30/14	**6.4**	<0.20	**4.6**	<0.28	<0.10	11
EX-7	07/15/15	**8.8**	<0.20	**6.4**	<0.28	<0.10	15.2
EX-7/	07/28/16	**6.5**	<0.38	**3.4**	<0.35	<0.20	9.9
EX-7R	10/24/17	**7.3**	<0.38	**3.8**	<0.35	<0.20	11.1
	07/31/18	**4.7**	<0.38	**2.4**	<0.35	<0.20	7.1
	07/18/19	**5.4**	<0.38	**2.4**	<0.35	<0.20	7.8
	07/23/20	**5.0**	<0.38	**2.6**	<0.35	<0.20	7.6
EX-7R	07/22/21	**3.2**	<0.38	**1.8**	<0.35	<0.20	5

Notes:
VOCs = Volatile Organic Compounds
ug/L = micrograms parts per liter, which is equivalent to parts per billion (ppb).
ES = Enforcement Standard, PAL = Preventative Action Limit
Orange Highlight = above ES, Yellow Highlight = above PAL
PCE = Tetrachloroethene
TCA = Trichloroethane TCE = Trichloroethene

Table 2. Summary of VOCs Groundwater Monitoring Analytical Results for Plant #1 Monitor Well TW-4

WELL	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	Acetone	Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	CIS-1,2-DCE	Trans-1,2-DCE	Methylene Chloride	Ethylbenzene	Xylenes, Total	**Total VOCs**
Units		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	ug/L	ug/L	ug/L
NR 140	ES	5.0	200	5	5	0.2	9000	5.0	6	850	5	7	70	100	5	700	2000	
NR 140	PAL	0.5	40	0.5	0.5	0.02	1800	0.5	0.6	85	0.5	0.7	7	20	0.5	140	400	
TW-4	11/05/91	**0.50**	**10000**	**1100**	**5.6**	<0.3	<1.0	<0.5	**4.0**	**61**	<0.5	**440.0**	**50**	<0.5	**2.4**	<0.5	<1.0	11663.5
	12/12/91	**0.60**	**11000**	**1200**	**4.5**	<0.3	<1.0	<0.5	**3.7**	**93**	**3**	**680.0**	**52**	<0.5	<1	<0.5	<1.0	13036.8
	11/11/93	**0.80**	**6200**	**1500**	**3.2**	<0.3	<1.0	<0.5	<0.5	**26**	<0.5	**490**	**25**	<0.5	<1.0	<0.5	<1.0	8245
	08/17/94	<1	**3900**	**600**	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4500
	12/14/94	<50	**4040**	**630**	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4670
	03/13/95	ND	**3120**	**600**	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3720
	06/21/95	NA	**4220**	**990**	**17.6**	**5.4**	<1.0	NA	**3.8**	**113**	<0.5	**415**	**93.6**	NA	NA	NA	NA	5858.4
	11/08/95	**1.2**	**3340**	**920**	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4261.2
	01/25/96	**1.1**	**3000**	**891**	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3892.1
	05/14/96	**0.90**	**1820**	**969**	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2789.9
	08/14/96	<0.5	**2150**	**179**	**1.8**	<0.5	<1.0	<0.5	<0.5	**12**	<1.6	**36.7**	NA	<0.5	NA	<0.5	NA	2379.5
	10/08/96	**0.90**	**1850**	**541**	**6.3**	<0.5	<1.0	<0.5	**1.0**	**36.3**	<1.6	**196**	NA	<0.5	NA	<0.5	NA	2631.5
	01/21/97	<0.5	**2650**	**913**	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3563
	04/01/97	**0.83**	**1400**	**600**	NA	<0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000.83
	07/23/97	**0.67**	**950**	**450**	**4.4**	<0.46	**3.4**	**0.3**	**0.70**	**24**	<0.20	**66**	**36**	0.5	<0.87	<0.38	<1.1	1535.97
	11/18/97	**0.83**	**760**	**490**	NA	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1250.83
	03/23/98	**0.74**	**780**	**530**	NA	<0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1310.74
	07/27/98	<2.5	**410**	**230**	<2.5	<2.5	<20	<1.0	<2.5	**13**	<2.5	**16**	**21**	<2.5	**15**	<2.5	<5.0	705
	09/28/98	<0.63	**860**	**460**	**2.8**	<0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1322.8
	12/05/98	<6.3	**830**	**400**	NA	<4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1230
	03/11/99	<6.3	**480**	**270**	NA	<4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	750
	09/02/99	<3.2	**180**	**110**	**2.4**	<2.3	NA	<1.6	<0.90	<1.2	<1.0	**19**	**2.0**	<2.0	<4.4	<1.9	<5.5	313.4
TW-4	04/25/00	<3.2	**450**	**280**	NA	<2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.5	730
TW-4	09/26/00	<6.3	**340**	**230**	<1.5	<4.6	NA	<3.1	<1.8	**5.2**	<2.0	**15**	**10**	<3.9	<8.7	<3.8	<5.5	600.2

Table 2. Summary of VOCs Groundwater Monitoring Analytical Results for Plant #1 Monitor Well TW-4

WELL	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	Acetone	Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	CIS-1,2-DCE	Trans-1,2-DCE	Methylene Chloride	Ethylbenzene	Xylenes, Total	**Total VOCs**
Units		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	ug/L	ug/L	ug/L
NR 140	ES	5.0	200	5	5	0.2	9000	5.0	6	850	5	7	70	100	5	700	2000	
NR 140	PAL	0.5	40	0.5	0.5	0.02	1800	0.5	0.6	85	0.5	0.7	7	20	0.5	140	400	
TW-4	04/23/01	**0.60**	**290**	**240**	NA	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	530.6
	10/02/01	<2.0	**190**	**140**	<2.0	<2.0	NA	<0.80	<2.0	**2.1**	<2.0	**6.8**	**3.0**	<2.0	**8.1**	<2.0	<2.0	350
	04/16/02	<0.25	**76**	**60**	**1.5**	<0.25	NA	<0.10	<0.25	**1.4**	<0.25	**2.5**	**0.76**	<0.25	**0.47**	<0.25	<0.25	142.63
TW-4	06/24/03	<1.0	**120**	**89**	**1.4**	<1.0	NA	<0.50	<0.50	**2.1**	<1.0	**4.7**	**3.7**	<1.0	<2.0	<1.0	<1.0	220.9
	09/21/04	<0.50	**64**	**39**	NA	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103
	12/14/05	<0.50	**65**	**35**	**0.92**	<0.20	<2.0	<0.20	<0.20	**0.76**	<0.50	**1.6**	**0.55**	<0.50	<1.0	<0.50	<0.50	103.83
	07/31/06	<0.50	**92**	**60**	**1.3**	<0.20	<2.0	<0.20	<0.20	**1.3**	<0.50	**2.9**	**1.4**	<0.50	<1.0	<0.50	<0.50	158.9
	07/31/07	<0.50	**50**	<0.20	<0.25	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
	08/20/08	<0.50	**71**	**36**	**0.73**	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107.73
	07/28/09	<0.50	**52**	**25**	**0.34**	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.34
	07/14/10	<0.50	**75**	**52**	**0.28**	<0.20	NA	<0.20	<0.20	<0.50	<0.50	**2.1**	<0.50	<0.50	<1.0	<0.50	<0.50	129.38
	07/21/11	<0.50	**38**	**42**	**0.28**	<0.20	NA	<0.20	<0.20	**0.52**	<0.50	**0.78**	<0.50	<0.50	<1.0	<0.50	<0.50	81.58
	07/10/12	<0.17	**48**	**53**	<0.28	<0.10	NA	<0.074	<0.20	**1.8**	<0.28	**1.8**	<0.12	<0.25	<0.68	<0.50	<0.068	104.6
	07/24/13	<0.17	**26**	**23**	<0.28	<0.10	NA	<0.074	<0.20	**0.54**	<0.28	**1.1**	<0.12	<0.25	<0.68	**0.13**	**0.20**	50.97
	07/29/14	<0.17	**29**	**20**	<0.28	<0.10	NA	<0.074	<0.20	<0.19	<0.28	**0.9**	<0.12	<0.25	<0.68	<0.13	<0.068	49.9
	07/14/15	<0.17	**30**	**36**	<0.28	<0.10	NA	<0.074	<0.20	**4.9**	<0.28	**1.4**	**1.7**	<0.25	**8.2 B**	<0.10	<0.068	82.2
	07/29/16	<0.37	**20**	**15**	<0.35	<0.20	NA	<0.15	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	35
	03/01/17	<0.37	**17**	**8.0**	<0.35	<0.20	NA	<0.15	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	25
	05/17/17	<0.37	**22**	**11**	<0.35	<0.20	NA	<0.15	<0.37	**0.96**	<0.39	**0.90**	<0.41	<0.35	<1.6	<0.18	<0.22	34.86
	07/13/17	<0.37	**27**	**19**	<0.35	<0.20	NA	<0.15	<0.37	**1.1**	<0.39	**1.0**	<0.41	<0.35	<1.6	<0.18	<0.22	48.1
	10/24/17	<0.37	**22**	**16**	<0.35	<0.20	NA	<0.15	<0.37	<0.41	<0.39	**0.91**	<0.41	<0.35	<1.6	<0.18	<0.22	38.91
TW-4	02/28/18	<0.37	**20**	**11**	<0.35	<0.20	NA	<0.15	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	31
	05/10/18	<0.74	**27**	**16**	<0.33	<0.50	NA	<0.43	<0.50	**0.58**	<0.50	**0.70**	<0.41	<0.37	<2.5	<0.33	<0.23	44.28
TW-4	07/30/18	<0.37	**26**	**18**	<0.35	<0.20	NA	<0.15	<0.37	**4.7**	<0.39	**1.6**	<0.41	<0.35	<1.6	<0.18	<0.22	50.3

Table 2. Summary of VOCs Groundwater Monitoring Analytical Results for Plant #1 Monitor Well TW-4

WELL	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	Acetone	Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	CIS-1,2-DCE	Trans-1,2-DCE	Methylene Chloride	Ethylbenzene	Xylenes, Total	**Total VOCs**
Units		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	ug/L	ug/L	ug/L
NR 140	ES	5.0	200	5	5	0.2	9000	5.0	6	850	5	7	70	100	5	700	2000	
NR 140	PAL	0.5	40	0.5	0.5	0.02	1800	0.5	0.6	85	0.5	0.7	7	20	0.5	140	400	
TW-4	07/18/19	<0.37	**26**	**18**	<0.35	<0.20	NA	<0.15	<0.37	**3.6**	<0.39	**1.1**	0.87	<0.35	<1.6	<0.18	<0.22	49.57
	07/23/20	<0.37	**20**	**21**	<0.35	<0.20	NA	<0.15	<0.37	**1.1**	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	42.1
TW-4	07/22/21	<0.37	**19**	**14**	<0.35	<0.20	NA	<0.15	<0.37	**1.1**	<0.39	**0.64**	<0.41	<0.35	<1.6	<0.18	<0.22	34.74

Notes: All values listed are in parts per billion (ug/L).
VOCs = Volatile Organic Compounds
ES = Enforcement Standard, PAL = Preventative Action Limit
Orange Highlight = above ES, Yellow Highlight = above PAL
ND = not detected, NA = not analyzed or no data available

PCE = Tetrachloroethene
TCA = Trichloroethane
TCE = Trichloroethene

DCA = Dichloroethane
DCE = Dichloroethene

B = Detected in blank sample at a similar concentration.

Table 3. Pentair Flow Technologies, LLC Delavan Facility
Extraction Wells Flow Data

Meter/ Well ID	Date	Meter Reading (gallons)	Monthly Flow Data		
			(gal/month)	(gpd)	(gpm)
EX-1	January-21	33,184,572	64,545	2,082.10	1.45
EX-1	February-21	33,526,455	341,883	12,210.11	8.48
EX-1	March-21	33,664,979	138,524	4,468.52	3.10
EX-1	April-21	33,878,020	213,041	7,101.37	4.93
EX-1	May-21	34,098,541	220,521	7,113.58	4.94
EX-1	June-21	34,232,790	134,249	4,474.97	3.11
EX-1	July-21	34,287,161	54,371	1,753.90	1.22
EX-1	August-21	34,304,300	17,139	552.87	0.38
EX-1	September-21	34,357,814	53,005	1,766.83	1.23
EX-1	October-21	34,389,663	31,849	1,027.39	0.71
EX-1	November-21	34,389,663	1,473,120	49,104.00	34.10
EX-1	December-21	34,389,663	1,522,224	49,104.00	34.10
EX-2R EX-3R	January-21	79,162,775	1,852,353	59,753.32	41.50
EX-2R EX-3R	February-21	80,814,419	1,651,644	58,987.29	40.96
EX-2R EX-3R	March-21	82,633,954	1,819,535	58,694.68	40.76
EX-2R EX-3R	April-21	84,392,639	1,758,685	58,622.83	40.71
EX-2R EX-3R	May-21	86,198,675	1,806,036	58,259.23	40.46
EX-2R EX-3R	June-21	87,925,108	1,726,433	57,547.77	39.96
EX-2R EX-3R	July-21	89,703,648	1,778,540	57,372.26	39.84
EX-2R EX-3R	August-21	91,477,334	1,773,686	57,215.68	39.73
EX-2R EX-3R	September-21	93,157,028	1,679,694	55,989.80	38.88
EX-2R EX-3R	October-21	94,812,570	1,621,589	52,309.32	36.33
EX-2R EX-3R	November-21	96,374,624	1,562,054	52,068.47	36.16
EX-2R EX-3R	December-21	97,930,853	1,556,229	50,200.94	34.86
EX-4R	January-21	52,945,759	1,852,801	59,767.77	41.51
EX-4R	February-21	54,620,615	1,674,856	59,816.29	41.54
EX-4R	March-21	56,469,321	1,848,706	59,635.68	41.41
EX-4R	April-21	58,259,682	1,790,361	59,678.70	41.44
EX-4R	May-21	60,108,813	1,849,131	59,649.39	41.42
EX-4R	June-21	61,897,358	1,788,545	59,618.17	41.40
EX-4R	July-21	63,743,203	1,845,845	59,543.39	41.35
EX-4R	August-21	65,587,960	1,844,757	59,508.29	41.33
EX-4R	September-21	67,370,618	1,782,658	59,421.93	41.27
EX-4R	October-21	69,211,008	1,804,565	58,211.77	40.42
EX-4R	November-21	70,993,230	1,782,222	59,407.40	41.26
EX-4R	December-21	72,830,904	1,837,674	59,279.81	41.17
EX-5R	January-21	57,510,768	1,849,988	59,677.03	41.44
EX-5R	February-21	59,182,985	1,672,217	59,722.04	41.47
EX-5R	March-21	61,031,226	1,848,241	59,620.68	41.40

Table 3. Pentair Flow Technologies, LLC Delavan Facility Extraction Wells Flow Data

Meter/ Well ID	Date	Meter Reading (gallons)	Monthly Flow Data		
			(gal/month)	(gpd)	(gpm)
EX-5R	April-21	62,820,039	1,788,813	59,627.10	41.41
EX-5R	May-21	64,669,030	1,848,991	59,644.87	41.42
EX-5R	June-21	66,457,110	1,788,080	59,602.67	41.39
EX-5R	July-21	68,302,728	1,845,618	59,536.06	41.34
EX-5R	August-21	70,146,078	1,843,350	59,462.90	41.29
EX-5R	September-21	71,927,441	1,781,363	59,378.77	41.24
EX-5R	October-21	73,771,122	1,808,980	58,354.19	40.52
EX-5R	November-21	75,557,645	1,786,523	59,550.77	41.35
EX-5R	December-21	77,399,835	1,842,190	59,425.48	41.27
EX-6	January-21	7,847,288	3,846,643	124,085.26	86.17
EX-6	February-21	11,330,768	3,483,480	124,410.00	86.40
EX-6	March-21	15,180,994	3,850,226	124,200.84	86.25
EX-6	April-21	18,910,959	3,729,965	124,332.17	86.34
EX-6	May-21	22,760,098	3,849,139	124,165.77	86.23
EX-6	June-21	26,392,527	3,632,429	121,080.97	84.08
EX-6	July-21	30,124,148	3,731,621	120,374.87	83.59
EX-6	August-21	33,852,788	3,728,640	120,278.71	83.53
EX-6	September-21	37,387,922	3,535,134	117,837.80	81.83
EX-6	October-21	38,021,094	618,517	19,952.16	13.86
EX-6	November-21	39,820,441	1,799,347	59,978.23	41.65
EX-6	December-21	42,380,900	2,560,459	82,595.45	57.36
EX-7R	January-21	44,960,634	1,836,550	59,243.55	41.14
EX-7R	February-21	46,611,356	1,650,722	58,954.36	40.94
EX-7R	March-21	48,430,806	1,819,450	58,691.94	40.76
EX-7R	April-21	50,180,388	1,749,582	58,319.40	40.50
EX-7R	May-21	51,985,970	1,805,582	58,244.58	40.45
EX-7R	June-21	53,728,751	1,742,781	58,092.70	40.34
EX-7R	July-21	55,532,811	1,804,060	58,195.48	40.41
EX-7R	August-21	57,315,109	1,782,298	57,493.48	39.93
EX-7R	September-21	59,013,729	1,698,620	56,620.67	39.32
EX-7R	October-21	60,742,674	1,694,989	54,677.06	37.97
EX-7R	November-21	62,384,066	1,641,392	54,713.07	38.00
EX-7R	December-21	64,056,119	1,672,053	53,937.19	37.46

Notes:

gal/month: Gallons pumped for the month.

gpd: Average gallons per day.

gpm: Average gallons per minute.

November and December montly flow data for EX-1 cacluated from manual flow rate measured by Pentair personnel.

Table 4. Delavan Facility Groundwater Monitoring Program Well List
Pentair Flow Technologies, LLC, Delavan, Wisconsin

Monitoring Point	Sampling Frequency	Parameters
Plant 1 Monitoring Points		
D-25R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-1026	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-1027	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-4	Annual	VOCs
EX-2R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-3R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
Plant 2 Monitoring Points		
D-15	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
D-18	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2004	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2005R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2011	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-1	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-3	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-1	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-7R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
Site Monitoring Point		
Storm Sewer Grate (SS-1)	Quarterly	PCE, 1,1,1-TCA, TCE, VC

PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethene
VC = Vinyl Chloride
VOCs = Volatile Organic Compounds

APPENDIX A
SITE INSPECTON PHOTOGRAPHS

1. View looking northeast towards north side of property.

2. View looking northwest towards north side of property.

3.View looking west towards south side of property

4.View looking north towards southeast half of east side of property.

5. View looking north towards east side of property.

6. View looking south towards west side of property.

7. View looking north at west side of property.

8. View looking south inside Plant 1 where low-level VOC's impacts occur in the sub-surface soil.

9. View looking south towards monitoring well D-15 where the protector top steel casing is corroded at ground surface.

10. View looking at ground surface where monitor well D-15 steel casing is corroded and the surface seal is broken up.

APPENDIX B
GROUNDWATER MONITORING ANALYTICAL RESULTS AND FIELD DATA SHEETS

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469009.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	Todd M. Thomson	DO	NA

SAMPLE POINT	MW-2005R	MW-2011	D-15	TW-3	MW-2004
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	7-21-21	7-21-21	7-21-21	7-21-21	7-21-21
CLOCK TIME (Military)	09:00	14:20	15:30	13:30	09:40
DEPTH TO WATER (ft)*	24.53	26.00	31.72	32.40	27.15
MEASURED WELL DEPTH (ft)*	37.81	36.51	38.18	50.73	39.33
CASING VOLUME (gallons)	2.2	1.7	1.1	3.0	2.0
PURGE VOLUME (gallons)	12	12	10	20	12
DEPTH SAMPLE TAKEN (ft)*	35	32	36	40	35
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer
FIELD TEMPERATURE (°C)	12.3	12.0	11.8	12.6	13.0
pH	7.18	7.41	7.45	7.34	7.38
ELEC. COND. (uS/cm) at 25° C	970	2836	3881	1080	895
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Clear	Clear	Clear	Clear	Clear
ODOR	None	None	None	None	None
CLARITY	Clear	Clear	Clear	Clear	Clear
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No
Comments:					
NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER'S NAME	TMT	TMT	TMT	TMT	TMT

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469009.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	Todd M. Thomson	DO	NA

SAMPLE POINT	TW-1	D-18	D-25R	MW-1027	TW-4
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	7-21-21	7-21-21	7-21-21	7-21-21	7-22-21
CLOCK TIME (Military)	10:30	11:10	12:00	16:45	08:30
DEPTH TO WATER (ft)*	26.77	30.22	32.21	29.47	37.44
MEASURED WELL DEPTH (ft)*	45.50	39.90	42.39	39.98	50.52
CASING VOLUME (gallons)	3.1	1.6	1.7	1.7	2.1
PURGE VOLUME (gallons)	20	10	12	15	15
DEPTH SAMPLE TAKEN (ft)*	40	35	40	35	45
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer
FIELD TEMPERATURE (°C)	11.9	12.8	12.1	12.3	13.7
pH	7.40	7.31	7.33	7.36	7.12
ELEC. COND. (uS/cm) at 25° C	983	1430	1022	1976	2315
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Clear	Clear	Clear	Clear	Clear
ODOR	None	None	None	None	None
CLARITY	Clear	Clear	Clear	Clear	Clear
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; HCl; No	3 – 40 ml; G; L; HCl; No	
VOCs (EPA Method 8260B)					3 – 40 ml; G; L; HCl; No
Comments:					
NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER' S NAME	TMT	TMT	TMT	TMT	TMT

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469009.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	Todd M. Thomson	DO	NA

SAMPLE POINT	MW-1026	EX-1	EX-2R	EX-3R	EX-7R
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	7-22-21	7-22-21	7-22-21	7-22-21	7-22-21
CLOCK TIME (Military)	09:50	11:20	12:00	12:20	11:40
DEPTH TO WATER (ft)*	31.15	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*	36.00	NA	NA	NA	NA
CASING VOLUME (gallons)	0.8	NA	NA	NA	NA
PURGE VOLUME (gallons)	10	Grab	Grab	Grab	Grab
DEPTH SAMPLE TAKEN (ft)*	35	NA	NA	NA	NA
SAMPLING DEVICE	Hanging Bailer	Spigot	Spigot	Spigot	Spigot
FIELD TEMPERATURE (°C)	11.2	10.6	14.7	15.2	13.1
pH	7.46	7.33	7.42	7.47	7.50
ELEC. COND. (uS/cm) at 25° C	1034	1506	1912	1282	1419
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Light Brown	Clear	Clear	Clear	Clear
ODOR	None	None	None	None	None
CLARITY	Cloudy	Clear	Clear	Clear	Clear
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No
Comments:					
NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER'S NAME	TMT	TMT	TMT	TMT	TMT

*Measured from top of well casing.

Pentair Delavan Facility Field Water Level Data Sheet

Project Number: 117-7469009.100			Project Name: Pentair Delavan Remedial Action	
Personnel: Todd M Thomson			Instrument: Heron	
Well ID	Date	Time	Depth to Groundwater (feet btoc)	Notes
Plant 1 Wells				
EX-2R	NA	NA	NA	
EX-3R	NA	NA	NA	
EX-4R	NA	NA	NA	
EX-5	NA	NA	NA	
EX-6	NA	NA	NA	
TW-2	7/21/2021	11:15	30.58	
TW-2A	7/21/2021	11:20	31.11	
TW-4	7/21/2021	16:55	37.44	
D-1R	7/22/2021	10:15	32.34	
D-5	NA	NA	NA	ABANDONED
D-6	NA	NA	NA	ABANDONED
D-14R	NA	NA	NA	Not On Figure
D-23	7/22/2021	10:25	32.24	
D-24R	7/22/2021	10:30	29.99	
D-25R	7/21/2021	11:25	32.21	
D-26	7/21/2021	11:30	31.74	
D-27	7/21/2021	11:35	31.73	
MW-1026	7/22/2021	9:10	31.15	New Well Cap
MW-1027	7/21/2021	16:10	29.47	
Plant 2 Wells				
EX-1	NA	NA	NA	
EX-7R	7/22/2021	11:35	NA	Meter Rdg.= 54979910.6 @ 40 GPM
TW-1	7/21/2021	9:50	26.77	
TW-1A	7/21/2021	9:55	28.03	
TW-3	7/21/2021	12:50	32.4	Yellow Jacket Nest
D-3	NA	NA	NA	ABANDONED
D-4	NA	NA	NA	ABANDONED
D-15	7/21/2021	14:55	31.72	Steel Casing Rotted at Ground Surface.
P-2009	7/21/2021	14:45	31.35	
P-2010	7/21/2021	14:50	31.01	
D-18	7/21/2021	10:35	30.22	
MW-2004	7/21/2021	9:15	27.15	
MW-2005R	7/21/2021	8:30	24.53	
MW-2011	7/21/2021	13:50	26.0	

MONITOR WELL INSPECTION FORM

Project Name: Pentair Industries Location: Delavan

Project No: 117-7469009.100 Personnel: Todd Thomson

Well No.: Site Monitor Wells Inspection Date: 7-21-2021 & 7-22-2021

ITEM	YES	NO	N/A	COMMENTS
Map Location Accurate?	X			
Adequately Visible in Hard-to-Find Area?			X	
Protective Posts Present? Type?	X			Located in Parking Areas.
Protective Posts Necessary?		X		
Is Well Painted?	X			
Located in a Dry Area?	X			
Well Labelled Inside or Outside?	X			
Is Well Flushmount or Protop?				Both Type of Wells on Site.
Protective Casing Diameter? Material?			X	
Is Well Immobile?			X	
Protective Casing Locked? Type of Lock?	X			2121
Protective Casing Secure in Ground?	X			D-15: Steel Casing Rotted at Ground Surface.
Rust Inside Protective Casing Cap?		X		
Evidence of Frost Heave?		X		
Weep Hole at Base of Protective Casing?		X		
Well Casing Free of Kinks or Bends?	X			
Well Cap Present, Vented?		X		MW-1026: New Well Cap
Well Diameter and Material			X	
Solvent cement present?		X		
Type of Surface Seal? Is Seal Cracked?		X		D-15: Concrete Pad Seal Missing.
Ground/Seal Sloped to Prevent Ponding?			X	
Well stickup (ft. above grade)			X	
Protective casing stickup (ft. above grade)			X	
Depth to Water Level (below PVC casing)			X	
Measured Well Depth (below PVC casing)			X	
Saturated Thickness (feet)			X	
Constructed Well Depth (from log):			X	
Thickness of Siltation: (ft.)			X	
Bailer easily inserted/removed?	X			
Proximity to drainage ditches:			X	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-202808-1
Client Project/Site: Pentair Delavan

For:
Tetra Tech GEO
175 N Corporate Drive
Suite 100
Brookfield, Wisconsin 53045

Attn: Mr. Mark Manthey

Authorized for release by:
8/5/2021 1:14:09 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Job ID: 500-202808-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-202808-1

Comments
No additional comments.

Receipt
The samples were received on 7/24/2021 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-2005R — Lab Sample ID: 500-202808-1

No Detections.

Client Sample ID: MW-2004 — Lab Sample ID: 500-202808-2

No Detections.

Client Sample ID: TW-1 — Lab Sample ID: 500-202808-3

No Detections.

Client Sample ID: D-18 — Lab Sample ID: 500-202808-4

No Detections.

Client Sample ID: D-25R — Lab Sample ID: 500-202808-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.46	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TW-3 — Lab Sample ID: 500-202808-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.85	J	1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.26	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2011 — Lab Sample ID: 500-202808-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.0		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	14		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: D-15 — Lab Sample ID: 500-202808-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.0		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	4.6		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-1027 — Lab Sample ID: 500-202808-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.3		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	46		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TW-4 — Lab Sample ID: 500-202808-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.64	J	1.0	0.39	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	19		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	14		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-1026 — Lab Sample ID: 500-202808-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.6		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	1.6		0.50	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: EX-1 — Lab Sample ID: 500-202808-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.31	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: EX-7R — Lab Sample ID: 500-202808-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.2		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	1.8		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: EX-2R — Lab Sample ID: 500-202808-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.47	J	1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	2.1		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: EX-3R — Lab Sample ID: 500-202808-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.2		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	5.6		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-202808-16

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202808-1	MW-2005R	Water	07/21/21 09:00	07/24/21 09:55
500-202808-2	MW-2004	Water	07/21/21 09:40	07/24/21 09:55
500-202808-3	TW-1	Water	07/21/21 10:30	07/24/21 09:55
500-202808-4	D-18	Water	07/21/21 11:10	07/24/21 09:55
500-202808-5	D-25R	Water	07/21/21 12:00	07/24/21 09:55
500-202808-6	TW-3	Water	07/21/21 13:30	07/24/21 09:55
500-202808-7	MW-2011	Water	07/21/21 14:20	07/24/21 09:55
500-202808-8	D-15	Water	07/21/21 15:30	07/24/21 09:55
500-202808-9	MW-1027	Water	07/21/21 16:45	07/24/21 09:55
500-202808-10	TW-4	Water	07/22/21 08:30	07/24/21 09:55
500-202808-11	MW-1026	Water	07/22/21 09:50	07/24/21 09:55
500-202808-12	EX-1	Water	07/22/21 11:20	07/24/21 09:55
500-202808-13	EX-7R	Water	07/22/21 11:40	07/24/21 09:55
500-202808-14	EX-2R	Water	07/22/21 12:00	07/24/21 09:55
500-202808-15	EX-3R	Water	07/22/21 12:20	07/24/21 09:55
500-202808-16	TRIP BLANK	Water	07/21/21 00:00	07/24/21 09:55

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-2005R
Date Collected: 07/21/21 09:00
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 12:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 12:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 12:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/21 12:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*08/02/21 12:20*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*08/02/21 12:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*08/02/21 12:20*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*08/02/21 12:20*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-2004

Date Collected: 07/21/21 09:40
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 12:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 12:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 12:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/21 12:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*08/02/21 12:46*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*08/02/21 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*08/02/21 12:46*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 12:46*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: TW-1
Date Collected: 07/21/21 10:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 13:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 13:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 13:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/21 13:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*08/02/21 13:11*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/02/21 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*08/02/21 13:11*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 13:11*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: D-18

Date Collected: 07/21/21 11:10
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 13:36	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 13:36	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 13:36	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/21 13:36	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*08/02/21 13:36*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*08/02/21 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*08/02/21 13:36*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*08/02/21 13:36*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: D-25R

Date Collected: 07/21/21 12:00
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 14:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 14:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 14:01	1
Trichloroethene	**0.46**	**J**	0.50	0.16	ug/L			08/02/21 14:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*08/02/21 14:01*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*08/02/21 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*08/02/21 14:01*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*08/02/21 14:01*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: TW-3

Date Collected: 07/21/21 13:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**0.85**	**J**	1.0	0.37	ug/L			08/02/21 14:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 14:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 14:25	1
Trichloroethene	**0.26**	**J**	0.50	0.16	ug/L			08/02/21 14:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*08/02/21 14:25*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*08/02/21 14:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*08/02/21 14:25*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 14:25*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-2011

Date Collected: 07/21/21 14:20
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 14:50	1
1,1,1-Trichloroethane	**2.0**		1.0	0.38	ug/L			08/02/21 14:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 14:50	1
Trichloroethene	**14**		0.50	0.16	ug/L			08/02/21 14:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*08/02/21 14:50*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*08/02/21 14:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*08/02/21 14:50*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*08/02/21 14:50*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: D-15

Date Collected: 07/21/21 15:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**4.0**		1.0	0.37	ug/L			08/02/21 15:15	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 15:15	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 15:15	1
Trichloroethene	**4.6**		0.50	0.16	ug/L			08/02/21 15:15	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*08/02/21 15:15*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*08/02/21 15:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*08/02/21 15:15*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*08/02/21 15:15*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-1027

Date Collected: 07/21/21 16:45
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 15:41	1
1,1,1-Trichloroethane	**4.3**		1.0	0.38	ug/L			08/02/21 15:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 15:41	1
Trichloroethene	**46**		0.50	0.16	ug/L			08/02/21 15:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*08/02/21 15:41*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*08/02/21 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*08/02/21 15:41*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*08/02/21 15:41*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: TW-4

Date Collected: 07/22/21 08:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			08/02/21 16:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/02/21 16:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/02/21 16:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			08/02/21 16:05	1
Bromoform	<0.48		1.0	0.48	ug/L			08/02/21 16:05	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/02/21 16:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/02/21 16:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/02/21 16:05	1
Chloroform	<0.37		2.0	0.37	ug/L			08/02/21 16:05	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/02/21 16:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/02/21 16:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/02/21 16:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/02/21 16:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/02/21 16:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/02/21 16:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/02/21 16:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/02/21 16:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/02/21 16:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/02/21 16:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/02/21 16:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/02/21 16:05	1
1,1-Dichloroethane	**1.1**		1.0	0.41	ug/L			08/02/21 16:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
1,1-Dichloroethene	**0.64**	**J**	1.0	0.39	ug/L			08/02/21 16:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/02/21 16:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/02/21 16:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/02/21 16:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/02/21 16:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/02/21 16:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/02/21 16:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/02/21 16:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/02/21 16:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/02/21 16:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/02/21 16:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/02/21 16:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/21 16:05	1
Styrene	<0.39		1.0	0.39	ug/L			08/02/21 16:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/21 16:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/02/21 16:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/02/21 16:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 16:05	1
Toluene	<0.15		0.50	0.15	ug/L			08/02/21 16:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/02/21 16:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/02/21 16:05	1

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: TW-4
Date Collected: 07/22/21 08:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/02/21 16:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/02/21 16:05	1
1,1,1-Trichloroethane	**19**		1.0	0.38	ug/L			08/02/21 16:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 16:05	1
Trichloroethene	**14**		0.50	0.16	ug/L			08/02/21 16:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/02/21 16:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/02/21 16:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			08/02/21 16:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/02/21 16:05	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 16:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/02/21 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*08/02/21 16:05*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*08/02/21 16:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*08/02/21 16:05*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*08/02/21 16:05*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-1026

Date Collected: 07/22/21 09:50
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 16:31	1
1,1,1-Trichloroethane	**5.6**		1.0	0.38	ug/L			08/02/21 16:31	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 16:31	1
Trichloroethene	**1.6**		0.50	0.16	ug/L			08/02/21 16:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*08/02/21 16:31*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*08/02/21 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*08/02/21 16:31*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 16:31*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: EX-1

Date Collected: 07/22/21 11:20
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 16:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 16:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 16:56	1
Trichloroethene	**0.31**	**J**	0.50	0.16	ug/L			08/02/21 16:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*08/02/21 16:56*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*08/02/21 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*08/02/21 16:56*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 16:56*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: EX-7R

Date Collected: 07/22/21 11:40
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**3.2**		1.0	0.37	ug/L			08/02/21 17:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 17:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 17:21	1
Trichloroethene	**1.8**		0.50	0.16	ug/L			08/02/21 17:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*08/02/21 17:21*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/02/21 17:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*08/02/21 17:21*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 17:21*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: EX-2R

Date Collected: 07/22/21 12:00
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 17:47	1
1,1,1-Trichloroethane	**0.47**	**J**	1.0	0.38	ug/L			08/02/21 17:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 17:47	1
Trichloroethene	**2.1**		0.50	0.16	ug/L			08/02/21 17:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*08/02/21 17:47*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/02/21 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*08/02/21 17:47*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*08/02/21 17:47*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: EX-3R
Date Collected: 07/22/21 12:20
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 18:13	1
1,1,1-Trichloroethane	**4.2**		1.0	0.38	ug/L			08/02/21 18:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 18:13	1
Trichloroethene	**5.6**		0.50	0.16	ug/L			08/02/21 18:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*08/02/21 18:13*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/02/21 18:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*08/02/21 18:13*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*08/02/21 18:13*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: TRIP BLANK

Date Collected: 07/21/21 00:00
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 11:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 11:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 11:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/21 11:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*08/02/21 11:30*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/02/21 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*08/02/21 11:30*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*08/02/21 11:30*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

GC/MS VOA

Analysis Batch: 612151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202808-1	MW-2005R	Total/NA	Water	8260B	
500-202808-2	MW-2004	Total/NA	Water	8260B	
500-202808-3	TW-1	Total/NA	Water	8260B	
500-202808-4	D-18	Total/NA	Water	8260B	
500-202808-5	D-25R	Total/NA	Water	8260B	
500-202808-6	TW-3	Total/NA	Water	8260B	
500-202808-7	MW-2011	Total/NA	Water	8260B	
500-202808-8	D-15	Total/NA	Water	8260B	
500-202808-9	MW-1027	Total/NA	Water	8260B	
500-202808-10	TW-4	Total/NA	Water	8260B	
500-202808-11	MW-1026	Total/NA	Water	8260B	
500-202808-12	EX-1	Total/NA	Water	8260B	
500-202808-13	EX-7R	Total/NA	Water	8260B	
500-202808-14	EX-2R	Total/NA	Water	8260B	
500-202808-15	EX-3R	Total/NA	Water	8260B	
500-202808-16	TRIP BLANK	Total/NA	Water	8260B	
MB 500-612151/7	Method Blank	Total/NA	Water	8260B	
LCS 500-612151/5	Lab Control Sample	Total/NA	Water	8260B	
500-202808-15 MS	EX-3R	Total/NA	Water	8260B	
500-202808-15 MSD	EX-3R	Total/NA	Water	8260B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-202808-1	MW-2005R	91	101	89	98
500-202808-2	MW-2004	89	101	93	97
500-202808-3	TW-1	91	99	94	97
500-202808-4	D-18	90	98	85	100
500-202808-5	D-25R	91	101	88	98
500-202808-6	TW-3	91	101	89	97
500-202808-7	MW-2011	89	100	90	99
500-202808-8	D-15	92	100	88	96
500-202808-9	MW-1027	92	102	89	96
500-202808-10	TW-4	93	102	90	98
500-202808-11	MW-1026	92	101	90	97
500-202808-12	EX-1	90	102	91	97
500-202808-13	EX-7R	93	104	92	97
500-202808-14	EX-2R	89	104	98	95
500-202808-15	EX-3R	92	104	97	96
500-202808-15 MS	EX-3R	92	105	95	95
500-202808-15 MSD	EX-3R	91	104	94	95
500-202808-16	TRIP BLANK	91	99	87	97
LCS 500-612151/5	Lab Control Sample	92	100	91	97
MB 500-612151/7	Method Blank	93	103	92	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-612151/7
Matrix: Water
Analysis Batch: 612151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			08/02/21 10:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/02/21 10:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/02/21 10:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			08/02/21 10:39	1
Bromoform	<0.48		1.0	0.48	ug/L			08/02/21 10:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/02/21 10:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/02/21 10:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/02/21 10:39	1
Chloroform	<0.37		2.0	0.37	ug/L			08/02/21 10:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/02/21 10:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/02/21 10:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/02/21 10:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/02/21 10:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/02/21 10:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/02/21 10:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/02/21 10:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/02/21 10:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/02/21 10:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/02/21 10:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/02/21 10:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/02/21 10:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/02/21 10:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/02/21 10:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/02/21 10:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/02/21 10:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/02/21 10:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/02/21 10:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/02/21 10:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/02/21 10:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/02/21 10:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
Naphthalene	0.388	J	1.0	0.34	ug/L			08/02/21 10:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/02/21 10:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/02/21 10:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/21 10:39	1
Styrene	<0.39		1.0	0.39	ug/L			08/02/21 10:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/21 10:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/02/21 10:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/02/21 10:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/21 10:39	1
Toluene	<0.15		0.50	0.15	ug/L			08/02/21 10:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/02/21 10:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-612151/7
Matrix: Water
Analysis Batch: 612151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/02/21 10:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/02/21 10:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/02/21 10:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/21 10:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/21 10:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/21 10:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/02/21 10:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/02/21 10:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			08/02/21 10:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/02/21 10:39	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/21 10:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/02/21 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*08/02/21 10:39*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*08/02/21 10:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*08/02/21 10:39*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*08/02/21 10:39*	*1*

Lab Sample ID: LCS 500-612151/5
Matrix: Water
Analysis Batch: 612151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.3		ug/L		89	70 - 120
Bromobenzene	50.0	49.8		ug/L		100	70 - 122
Bromochloromethane	50.0	48.8		ug/L		98	65 - 122
Bromodichloromethane	50.0	42.9		ug/L		86	69 - 120
Bromoform	50.0	44.2		ug/L		88	56 - 132
Bromomethane	50.0	59.3		ug/L		119	40 - 152
Carbon tetrachloride	50.0	50.5		ug/L		101	59 - 133
Chlorobenzene	50.0	46.6		ug/L		93	70 - 120
Chloroethane	50.0	47.4		ug/L		95	48 - 136
Chloroform	50.0	45.1		ug/L		90	70 - 120
Chloromethane	50.0	49.4		ug/L		99	56 - 152
2-Chlorotoluene	50.0	44.4		ug/L		89	70 - 125
4-Chlorotoluene	50.0	44.8		ug/L		90	68 - 124
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	39.6		ug/L		79	64 - 127
Dibromochloromethane	50.0	45.7		ug/L		91	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	36.0		ug/L		72	56 - 123
1,2-Dibromoethane	50.0	45.6		ug/L		91	70 - 125
Dibromomethane	50.0	42.1		ug/L		84	70 - 120
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	70 - 125
1,3-Dichlorobenzene	50.0	48.6		ug/L		97	70 - 125
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 120
Dichlorodifluoromethane	50.0	58.5		ug/L		117	40 - 159
1,1-Dichloroethane	50.0	44.8		ug/L		90	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-612151/5
Matrix: Water
Analysis Batch: 612151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	43.8		ug/L		88	68 - 127
1,1-Dichloroethene	50.0	49.7		ug/L		99	67 - 122
1,2-Dichloropropane	50.0	43.2		ug/L		86	67 - 130
1,3-Dichloropropane	50.0	41.8		ug/L		84	62 - 136
2,2-Dichloropropane	50.0	40.7		ug/L		81	58 - 139
1,1-Dichloropropene	50.0	46.4		ug/L		93	70 - 121
Ethylbenzene	50.0	47.4		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	50.0		ug/L		100	51 - 150
Isopropylbenzene	50.0	47.9		ug/L		96	70 - 126
Methylene Chloride	50.0	44.8		ug/L		90	69 - 125
Methyl tert-butyl ether	50.0	41.7		ug/L		83	55 - 123
Naphthalene	50.0	42.2		ug/L		84	53 - 144
n-Butylbenzene	50.0	46.4		ug/L		93	68 - 125
N-Propylbenzene	50.0	46.1		ug/L		92	69 - 127
p-Isopropyltoluene	50.0	48.1		ug/L		96	70 - 125
sec-Butylbenzene	50.0	48.4		ug/L		97	70 - 123
Styrene	50.0	47.5		ug/L		95	70 - 120
tert-Butylbenzene	50.0	47.9		ug/L		96	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.4		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	41.6		ug/L		83	62 - 140
Tetrachloroethene	50.0	53.0		ug/L		106	70 - 128
Toluene	50.0	45.2		ug/L		90	70 - 125
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	39.1		ug/L		78	62 - 128
1,2,3-Trichlorobenzene	50.0	45.4		ug/L		91	51 - 145
1,2,4-Trichlorobenzene	50.0	47.0		ug/L		94	57 - 137
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	70 - 125
1,1,2-Trichloroethane	50.0	46.3		ug/L		93	71 - 130
Trichloroethene	50.0	50.3		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	57.0		ug/L		114	55 - 128
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	50 - 133
1,2,4-Trimethylbenzene	50.0	46.3		ug/L		93	70 - 123
1,3,5-Trimethylbenzene	50.0	46.4		ug/L		93	70 - 123
Vinyl chloride	50.0	56.3		ug/L		113	64 - 126
Xylenes, Total	100	92.8		ug/L		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: 500-202808-15 MS
Matrix: Water
Analysis Batch: 612151

Client Sample ID: EX-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	<0.37		50.0	53.7		ug/L		107	70 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-202808-15 MS
Matrix: Water
Analysis Batch: 612151

Client Sample ID: EX-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	4.2		50.0	54.4		ug/L		100	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	52.5		ug/L		105	71 - 130
Trichloroethene	5.6		50.0	60.0		ug/L		109	70 - 125
Vinyl chloride	<0.20		50.0	54.4		ug/L		109	64 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*105*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: 500-202808-15 MSD
Matrix: Water
Analysis Batch: 612151

Client Sample ID: EX-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	<0.37		50.0	54.0		ug/L		108	70 - 128	1	20
1,1,1-Trichloroethane	4.2		50.0	56.9		ug/L		105	70 - 125	4	20
1,1,2-Trichloroethane	<0.35		50.0	51.0		ug/L		102	71 - 130	3	20
Trichloroethene	5.6		50.0	60.1		ug/L		109	70 - 125	0	20
Vinyl chloride	<0.20		50.0	54.6		ug/L		109	64 - 126	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*104*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: MW-2005R
Date Collected: 07/21/21 09:00
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 12:20	PMF	TAL CHI

Client Sample ID: MW-2004
Date Collected: 07/21/21 09:40
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 12:46	PMF	TAL CHI

Client Sample ID: TW-1
Date Collected: 07/21/21 10:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 13:11	PMF	TAL CHI

Client Sample ID: D-18
Date Collected: 07/21/21 11:10
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 13:36	PMF	TAL CHI

Client Sample ID: D-25R
Date Collected: 07/21/21 12:00
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 14:01	PMF	TAL CHI

Client Sample ID: TW-3
Date Collected: 07/21/21 13:30
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 14:25	PMF	TAL CHI

Client Sample ID: MW-2011
Date Collected: 07/21/21 14:20
Date Received: 07/24/21 09:55

Lab Sample ID: 500-202808-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 14:50	PMF	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: D-15
Lab Sample ID: 500-202808-8
Date Collected: 07/21/21 15:30
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 15:15	PMF	TAL CHI

Client Sample ID: MW-1027
Lab Sample ID: 500-202808-9
Date Collected: 07/21/21 16:45
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 15:41	PMF	TAL CHI

Client Sample ID: TW-4
Lab Sample ID: 500-202808-10
Date Collected: 07/22/21 08:30
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 16:05	PMF	TAL CHI

Client Sample ID: MW-1026
Lab Sample ID: 500-202808-11
Date Collected: 07/22/21 09:50
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 16:31	PMF	TAL CHI

Client Sample ID: EX-1
Lab Sample ID: 500-202808-12
Date Collected: 07/22/21 11:20
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 16:56	PMF	TAL CHI

Client Sample ID: EX-7R
Lab Sample ID: 500-202808-13
Date Collected: 07/22/21 11:40
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 17:21	PMF	TAL CHI

Client Sample ID: EX-2R
Lab Sample ID: 500-202808-14
Date Collected: 07/22/21 12:00
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 17:47	PMF	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Client Sample ID: EX-3R
Lab Sample ID: 500-202808-15
Date Collected: 07/22/21 12:20
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 18:13	PMF	TAL CHI

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-202808-16
Date Collected: 07/21/21 00:00
Matrix: Water
Date Received: 07/24/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	612151	08/02/21 11:30	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-202808-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Tom Thomson	Lab PM: Fredrick Sandie	Carrier Tracking No's	COC No: 500-93015-41443 1
Client Contact: Mr Mark Manthey	Phone: (262) 792-1282	E Mail: sandra.fredrick@eurofinset.com	State:	Page: Page 1 of 2 500-202808
Company: Tetra Tech GEO	PWSID:	Analysis Requ		Job #: 117-7459009.100
Address: 175 N Corporate Drive Suite 100	Due Date Requested: STANDARD			Preservation Codes
City: Brookfield	TAT Requested (days):			A HCL M Hexane B NaOH N None C Zn Acetat O AsNaO D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchl S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)
State Zip: WI 53045	Compliance Project: Yes No			
Phone: 262 792 1282(Tel)	PO #:			
Email: mark.manthey@tetratech.com	WO #:			
Project Name: Pentair Deava	Project #: 50006640			Other:
Site:	SSOW #:			

500-202808 COC

Sample Identification	2021 Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOC PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC	8260B VOC Full list	Total Number of containers	Special Instructions/Note
			Preservation Code:				A	A		
1 MW-2005R	7-21	09:00	GRAB	Water	N	N	3			
2 MW-2004	7-21	09.40		Water			3			
3 TW-1	7-21	10:30		Water			3			
4 D-18	7-21	11:10		Water			3			
5 D-25R	7-21	12:00		Water			3			
6 TW-3	7-21	13:30		Water			3			
7 MW-2011	7-21	14:20		Water			3			
8 D-15	7-21	15:30		Water			3			
9 MW-1027	7-21	16.45		Water			3			
10 TW-4	7-22	08:30		Water				3		
11 MW-1026	7-22	09.50	V	Water	V	V	3			

Possible Hazard Identification
☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 7-23-21 0800	Company: TTEC	Received by:	Date/Time: 7/3-21 800	Company: TA
Relinquished by:	Date/Time: 7 23 21 1700	Company: TA	Received by: Stephanie Hernandez	Date/Time: 7/24/21 0955	Company: ETA-CHI
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 2.6

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone 708 534 5200 Fax 708 534-5211

Chain of Custody Record

eurofins

Client Information

Client Contact: Mr. Mark Manthey	Sampler: Tom Thomson	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-93015-41443.2
Company: Tetra Tech GEO	Phone: (262) 792-1282	E Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 2 of 2 500-202808
Address: 175 N Corporate Drive Suite 00	PWSID:	Analysis Requested		Job #: 117-7469.009-100
City: Brookfield	Due Date Requested: STANDARD			Preservation Codes
State Zip: WI 53045	TAT Requested (days):			A HCL M Hexane B NaOH N None C Zn Acetate O As2O3 D Nitric Acid P Na2O4 E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4 L EDA Z other (specify)
Phone: 262 792 1282(Tel)	Compliance Project: Yes No			Other:
Email: mark.manthey@tetratech.com	PO #:			
Project Name: Pentair Delavan	WO #:			
Site:	Project #: 50006640			
	SOW#:			

Sample Identification	Sample Date (2021)	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOC PCE 1,1,1-TCA 1,1,2-TCA TCE, VC	8260B VOC Full list	Total Number of containers	Special Instructions/Note
			Preservation Code:				A	A		
12 EX-1	7-22	11:20	GRAB	Water	N	N	3			
13 EX-7R	7-22	11:40		Water			3			
14 EX-2R	7-22	12:00		Water			3			
15 EX-3R	7-22	12:20		Water			3			
16 TRIP BLANK	—	—	V	Water	V	V	1			LAB PREPARED

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [ ] Disposal By Lab [ ] Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 7-23-21 0800	Company: TETRA TECH	Received by:	Date/Time: 7/23/21 0800	Company: TA
Relinquished by:	Date/Time: 7-23-21 1700	Company: TA	Received by: Stephanie Hernandez	Date/Time: 7/24/21 0955	Company: ETA-CHI
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Yes No | Custody Seal No.:

Cooler Temperature(s) and Other Remarks:

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-202808-1

Login Number: 202808
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C
WASTEWATER DISCHARGE MONITORING REPORTS AND STORM SEWER OUTFALL SS-1 ANALYTICAL RESULTS

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : 293 S Wright St
Delavan, WI 53115
Facility Contact : Maxwell Geyer, EH&S Specialist
Phone Number : 262-728-7408
Reporting Period : 01/01/2021 - 03/31/2021
Form Due Date : 04/21/2021
Permit Number : **0046566**

Date Received:	
DOC:	464262
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	David J Haas
Office:	Green Bay

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	03/09/2021	GRAB	7.76	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	03/09/2021	GRAB	2.5	mg/L	Daily Max	40(0)	1.9	5.0	Y	999580010
001	490	Tetrachloroethylene	03/09/2021	GRAB	<0.37	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	03/09/2021	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	03/09/2021	GRAB	0.30	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	03/09/2021	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

J: Result is less than the LOQ but greater than or equal to the LOD and the concentration is an approximate value.

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI98129
PROJECT NO.	Delavan Well #4 WPDES	Conductivity	HI98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT	SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	03/09/2021				
CLOCK TIME (Military)	0903				
DEPTH TO WATER (ft)*	NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*	NA	NA	NA	NA	NA
CASING VOLUME (gallons)	NA	NA	NA	NA	NA
PURGE VOLUME (gallons)	NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*	NA	NA	NA	NA	NA
SAMPLING DEVICE	HI98129				
FIELD TEMPERATURE (°C)	10.2				
pH	7.76				
ELEC. COND. (uS/cm) Measured	1216				
ELEC. COND. (uS/cm) at 25° C					
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Clear				
ODOR	None				
CLARITY	Clear				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	3-9-2021				
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

GeoTrans

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-195837-1
Client Project/Site: Delavan Well #4 WPDES

For:
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Attn: Dennis Schwind

Authorized for release by:
3/15/2021 4:58:45 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-195837-1
Project/Site: Delavan Well #4 WPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-195837-1

Job ID: 500-195837-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-195837-1

Comments
No additional comments.

Receipt
The samples were received on 3/10/2021 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Pentair Water
Job ID: 500-195837-1
Project/Site: Delavan Well #4 WPDES

Client Sample ID: SS1
Lab Sample ID: 500-195837-1
Date Collected: 03/09/21 09:03
Matrix: Water
Date Received: 03/10/21 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/15/21 15:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/15/21 15:23	1
Trichloroethene	**0.30**	**J**	0.50	0.16	ug/L			03/15/21 15:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/15/21 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*03/15/21 15:23*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*03/15/21 15:23*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*03/15/21 15:23*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*03/15/21 15:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**2.5**	**J**	5.0	1.9	mg/L			03/10/21 12:44	1

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-195837-1

Client Sample ID: Test Blank

Date Collected: 03/09/21 00:00
Date Received: 03/10/21 09:35

Lab Sample ID: 500-195837-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/15/21 14:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/15/21 14:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/15/21 14:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/15/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*03/15/21 14:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*03/15/21 14:04*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*03/15/21 14:04*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*03/15/21 14:04*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-195837-1

Client Sample ID: SS1
Date Collected: 03/09/21 09:03
Date Received: 03/10/21 09:35

Lab Sample ID: 500-195837-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	588556	03/15/21 15:23	PMF	TAL CHI
Total/NA	Analysis	SM 2540D		1	587987		SMO	TAL CHI
					(Start)	03/10/21 12:44		
					(End)	03/10/21 12:45		

Client Sample ID: Test Blank
Date Collected: 03/09/21 00:00
Date Received: 03/10/21 09:35

Lab Sample ID: 500-195837-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	588556	03/15/21 14:04	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-195837-1
Project/Site: Delavan Well #4 WPDES

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Method Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-195837-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-195837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-195837-1	SS1	Water	03/09/21 09:03	03/10/21 09:35	
500-195837-2	Test Blank	Water	03/09/21 00:00	03/10/21 09:35	

Chain of Custody Record 492988

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Environment Testing
TestAmerica

Address 293 Wright Street Delavan WI 53115

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager	Site Contact	Date	COC No
Company Name Pentair Flow Technologies LLC	Tel/Email	Lab Contact	Carrier	____ of ____ COCs
Address 293 Wright Street	Analysis Turnaround Time			Sampler
City/State/Zip Delavan WI 53115	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone 262-728-5551	TAT if different from Below ____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name Delavan Well #4 WPDES	☐ 1 week			
Site Delavan WI	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-195837

500-195837 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCE	TCA	PCE	Vinyl chloride	TSS	Sample Specific Notes
1	SS1	3/9/21	0903	G	W	4			X	X	X	X	X	
2	Test Blank					1								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No 1447433, 1447432 | Cooler Temp (°C) Obs'd 2.1 Corr'd 2.1 | Therm ID No ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pentair	3/9/21 0930			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			Stephanie Hernandez	ETA-CHI	3/10/21 0935

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-195837-1

Login Number: 195837
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : 293 S Wright St
Delavan, WI 53115
Facility Contact : Maxwell Geyer, EH&S Specialist
Phone Number : 262-728-7408
Reporting Period : 04/01/2021 - 06/30/2021
Form Due Date : 07/21/2021
Permit Number : **0046566**

Date Received:	
DOC:	471404
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	06/09/2021	GRAB	7.34	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	06/09/2021	GRAB	<1.9	mg/L	Daily Max	40(0)	5.0	1.9	N	999580010
001	490	Tetrachloroethylene	06/09/2021	GRAB	<0.37	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	06/09/2021	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	06/09/2021	GRAB	0.42	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	06/09/2021	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

The total flow rates were calculated from daily flow readings recorded by the Badger U500w ultrasonic meters installed on the discharge lines of the Delavan facility extraction wells.

Laboratory Quality Control Comments

J = Result is less than the LOQ but greater than the LOD and the concentration is an approximate value.

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI 98129
PROJECT NO.	WPDES	Conductivity	HI 98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT		SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		6/9/2021				
CLOCK TIME (Military)		0952				
DEPTH TO WATER (ft)*		NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*		NA	NA	NA	NA	NA
CASING VOLUME (gallons)		NA	NA	NA	NA	NA
PURGE VOLUME (gallons)		NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*		NA	NA	NA	NA	NA
SAMPLING DEVICE		HI98129				
FIELD TEMPERATURE (°C)		15.1				
pH		7.34				
ELEC. COND. (uS/cm)	Measured	1245				
	at 25° C					
ORP (mV)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)		NA	NA	NA	NA	NA
COLOR		CLEAR				
ODOR		NONE				
CLARITY		CLEAR				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	6-9-21				
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-200579-1
Client Project/Site: Delavan Well #4 WPDES

For:
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Attn: Dennis Schwind

Jodie Bracken

Authorized for release by:
6/24/2021 1:01:48 PM
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-200579-1
Project/Site: Delavan Well #4 WPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-200579-1

Job ID: 500-200579-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-200579-1

Comments
No additional comments.

Receipt
The samples were received on 6/10/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-200579-1

Client Sample ID: SS1

Date Collected: 06/09/21 09:52
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200579-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/22/21 17:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/22/21 17:19	1
Trichloroethene	**0.42**	**J**	0.50	0.16	ug/L			06/22/21 17:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/22/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*06/22/21 17:19*	*1*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*06/22/21 17:19*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*06/22/21 17:19*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*06/22/21 17:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			06/15/21 13:32	1

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-200579-1

Client Sample ID: Test Blank

Date Collected: 06/09/21 00:00
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200579-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/22/21 17:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/22/21 17:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/22/21 17:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/22/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*06/22/21 17:44*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*06/22/21 17:44*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*06/22/21 17:44*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*06/22/21 17:44*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-200579-1

Client Sample ID: SS1

Lab Sample ID: 500-200579-1

Date Collected: 06/09/21 09:52

Matrix: Water

Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	605368	06/22/21 17:19	PMF	TAL CHI
Total/NA	Analysis	SM 2540D		1	604203		SMO	TAL CHI
					(Start)	06/15/21 13:32		
					(End)	06/15/21 13:33		

Client Sample ID: Test Blank

Lab Sample ID: 500-200579-2

Date Collected: 06/09/21 00:00

Matrix: Water

Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	605368	06/22/21 17:44	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-200579-1
Project/Site: Delavan Well #4 WPDES

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Method Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-200579-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-200579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-200579-1	SS1	Water	06/09/21 09:52	06/10/21 09:45	
500-200579-2	Test Blank	Water	06/09/21 00:00	06/10/21 09:45	

Chain of Custody Record 510848

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Address 2417 Bond Street

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact Dennis	Date: 6-9-21	COC No
Company Name Pentair Flow Technologies LLC	Tel/Email:	Lab Contact:	Carrier: Fed Ex	____ of ____ COCs
Address 2930 Wright St.	Analysis Turnaround Time			Sampler:
City State Zip Delavan WI 53115	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 262 728 5551	TAT if different from Below ____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name Delavan Well #4 WPDES	☐ 1 week			
Site Delavan WI	☐ 2 days			Job / SDG No 500-200579
P O #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCE	TCA	PCE	Vinyl Chloride	TSS	Sample Specific Notes
1	SS1	6-9-21	0952	G	W	5			X	X	X	X	X	
2	Test Blank					1								

500-200579 COC

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.4

Custody Seals Intact ☒ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Donna Johnson	Pentair	1035			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			Stephanie Hernandez	ETA-CHI	6/10/21 0945

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-200579-1

Login Number: 200579
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : 293 S Wright St
Delavan, WI 53115
Facility Contact : Maxwell Geyer, EH&S Specialist
Phone Number : 262-728-7408
Reporting Period : 07/01/2021 - 09/30/2021
Form Due Date : 10/21/2021
Permit Number : **0046566**

Date Received:	
DOC:	475777
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	09/20/2021	GRAB	7.46	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	09/20/2021	GRAB	2.2	mg/L	Daily Max	40(0)	1.9	5.0	Y	999580010
001	490	Tetrachloroethylene	09/20/2021	GRAB	<0.37	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	09/20/2021	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	09/20/2021	GRAB	0.39	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	09/20/2021	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

J = Result is less than the LOQ but greater than the LOD and the concentration is an approximate value.

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI98129
PROJECT NO.	Delavan Well #1 [illegible]	Conductivity	HI98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT		SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		9/20/21				
CLOCK TIME (Military)		1024				
DEPTH TO WATER (ft)*		NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*		NA	NA	NA	NA	NA
CASING VOLUME (gallons)		NA	NA	NA	NA	NA
PURGE VOLUME (gallons)		NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*		NA	NA	NA	NA	NA
SAMPLING DEVICE		HI98129				
FIELD TEMPERATURE (°C)		15.2				
pH		7.46				
ELEC. COND. (uS/cm)	Measured	1267				
	at 25° C					
ORP (mV)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)		NA	NA	NA	NA	NA
COLOR		CLEAR				
ODOR		NONE				
CLARITY		CLEAR				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	9-21-21				
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

P:\StaRite\Delavan\SS-1_Fld_Water_Form.doc

GeoTrans Inc.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-205580-1
Client Project/Site: Delavan Well #1 WPDES

For:
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Attn: Dennis Schwind

Authorized for release by:
10/5/2021 10:03:50 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-205580-1
Project/Site: Delavan Well #1 WPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Pentair Water
Project/Site: Delavan Well #1 WPDES

Job ID: 500-205580-1

Job ID: 500-205580-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-205580-1

Comments
No additional comments.

Receipt
The samples were received on 9/22/2021 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.4º C.

GC/MS VOA
Method 8260B: The matrix spike/ matrix spike duplicate (MS/MSD) for the following sample was analyzed outside the 12 hour tune window. No further action was taken.SS1 (500-205580-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Pentair Water
Project/Site: Delavan Well #1 WPDES

Job ID: 500-205580-1

Client Sample ID: SS1

Date Collected: 09/21/21 10:24
Date Received: 09/22/21 10:20

Lab Sample ID: 500-205580-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/30/21 16:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/30/21 16:41	1
Trichloroethene	**0.39**	**J**	0.50	0.16	ug/L			09/30/21 16:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/30/21 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*09/30/21 16:41*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*09/30/21 16:41*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 120*		*09/30/21 16:41*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*09/30/21 16:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**2.2**	**J**	5.0	1.9	mg/L			09/23/21 16:14	1

Client: Pentair Water
Project/Site: Delavan Well #1 WPDES

Job ID: 500-205580-1

Client Sample ID: Test Blank

Date Collected: 09/21/21 00:00
Date Received: 09/22/21 10:20

Lab Sample ID: 500-205580-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/30/21 17:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/30/21 17:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/30/21 17:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/30/21 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*09/30/21 17:07*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*09/30/21 17:07*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*09/30/21 17:07*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/30/21 17:07*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Delavan Well #1 WPDES

Job ID: 500-205580-1

Client Sample ID: SS1

Lab Sample ID: 500-205580-1

Date Collected: 09/21/21 10:24

Matrix: Water

Date Received: 09/22/21 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	621024	09/30/21 16:41	STW	TAL CHI
Total/NA	Analysis	SM 2540D		1	620054		SMO	TAL CHI
					(Start)	09/23/21 16:14		
					(End)	09/23/21 16:16		

Client Sample ID: Test Blank

Lab Sample ID: 500-205580-2

Date Collected: 09/21/21 00:00

Matrix: Water

Date Received: 09/22/21 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	621024	09/30/21 17:07	STW	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-205580-1
Project/Site: Delavan Well #1 WPDES

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Method Summary

Client: Pentair Water
Project/Site: Delavan Well #1 WPDES

Job ID: 500-205580-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pentair Water
Project/Site: Delavan Well #1 WPDES

Job ID: 500-205580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-205580-1	SS1	Water	09/21/21 10:24	09/22/21 10:20
500-205580-2	Test Blank	Water	09/21/21 00:00	09/22/21 10:20

Chain of Custody Record 445846

Environment Testing TestAmerica

500-205580 COC

TAL-8210

Address 2417 Bond Street

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager	Site Contact Dennis	Date 9-20-21	COC No
Company Name Pentair Flow Technologies LLC	Tel/Email	Lab Contact	Carrier FED EX	____ of ____ COCs
Address 293 Wright St,	Analysis Turnaround Time			Sampler
City/State/Zip Delavan WI 53115	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone 262-728-5551	TAT if different from Below ____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name Delavan Well #1 WPDES	☐ 1 week			
Site Delavan WI	☐ 2 days			Job / SDG No. 500-205580
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes
SS1	9-20-21	1024	G	W	4			
Test Blank					1			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ | Therm ID No ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Dennis Schumann	Pentair	9-21-21 1000		ETA	9/22/21 1020
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-205580-1

Login Number: 205580
List Number: 1
Creator: James, Jeff A

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : 293 S Wright St
Delavan, WI 53115
Facility Contact : Maxwell Geyer, EH&S Specialist
Phone Number : 262-728-7408
Reporting Period : 10/01/2021 - 12/31/2021
Form Due Date : 01/21/2022
Permit Number : **0046566**

Date Received:	
DOC:	482266
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	11/09/2021	GRAB	7.62	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	11/09/2021	GRAB	<1.9	mg/L	Daily Max	40(0)	1.9	5.0	N	999580010
001	490	Tetrachloroethylene	11/09/2021	GRAB	<0.37	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	11/09/2021	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	11/09/2021	GRAB	0.47	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	11/09/2021	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

J = Result is less than the LOQ but greater than the LOD and the concentration is an approximate value.

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI98129
PROJECT NO.	Delavan Well #4 WPDES	Conductivity	HI98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT	SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	11-9-21				
CLOCK TIME (Military)	0957				
DEPTH TO WATER (ft)*	NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*	NA	NA	NA	NA	NA
CASING VOLUME (gallons)	NA	NA	NA	NA	NA
PURGE VOLUME (gallons)	NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*	NA	NA	NA	NA	NA
SAMPLING DEVICE	HI98129				
FIELD TEMPERATURE (°C)	14.1				
pH	7.62				
ELEC. COND. (uS/cm) Measured	1306				
ELEC. COND. (uS/cm) at 25° C					
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	CLEAR				
ODOR	NONE				
CLARITY	CLEAR				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-208255-1
Client Project/Site: Delavan Well #4 WPDES

For:
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Attn: Dennis Schwind

Authorized for release by:
11/24/2021 8:06:46 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-208255-1
Project/Site: Delavan Well #4 WPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-208255-1

Job ID: 500-208255-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-208255-1

Comments
No additional comments.

Receipt
The samples were received on 11/11/2021 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1º C.

GC/MS VOA
Method 8260B: The matrix spike/ matrix spike duplicate (MS/MSD) for the following was analyzed outside the 12 hour tune window. No further action was taken.SS1 (500-208255-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-208255-1

Client Sample ID: SS1

Date Collected: 11/09/21 09:57
Date Received: 11/11/21 10:25

Lab Sample ID: 500-208255-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/17/21 19:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/17/21 19:56	1
Trichloroethene	**0.47**	**J**	0.50	0.16	ug/L			11/17/21 19:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/17/21 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*11/17/21 19:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*11/17/21 19:56*	*1*
Dibromofluoromethane (Surr)	*87*		*75 - 120*		*11/17/21 19:56*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*11/17/21 19:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			11/15/21 16:25	1

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-208255-1

Client Sample ID: Trip Blank

Date Collected: 11/09/21 00:00
Date Received: 11/11/21 10:25

Lab Sample ID: 500-208255-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/17/21 19:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/17/21 19:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/17/21 19:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/17/21 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*11/17/21 19:29*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*11/17/21 19:29*	*1*
Dibromofluoromethane (Surr)	*85*		*75 - 120*		*11/17/21 19:29*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/17/21 19:29*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-208255-1

Client Sample ID: SS1

Lab Sample ID: 500-208255-1

Date Collected: 11/09/21 09:57

Matrix: Water

Date Received: 11/11/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	629277	11/17/21 19:56	PSP	TAL CHI
Total/NA	Analysis	SM 2540D		1	628966		SMO	TAL CHI
					(Start)	11/15/21 16:25		
					(End)	11/15/21 16:27		

Client Sample ID: Trip Blank

Lab Sample ID: 500-208255-2

Date Collected: 11/09/21 00:00

Matrix: Water

Date Received: 11/11/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	629277	11/17/21 19:29	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-208255-1
Project/Site: Delavan Well #4 WPDES

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Method Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-208255-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-208255-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-208255-1	SS1	Water	11/09/21 09:57	11/11/21 10:25
500-208255-2	Trip Blank	Water	11/09/21 00:00	11/11/21 10:25

Chain of Custody Record

547617

Environment Testing
TestAmerica

Address _____

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

500-208255 COC

TAL-8210

Client Contact	Project Manager	Site Contact	Date
Company Name: Pentair Flow Technologies LLC	Email:	Lab Contact:	Carrier:
Address: 293 Wright St.	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS		___ of ___ COCs
City/State/Zip: Delavan WI 53115	TAT if different from Below: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sampler
Phone: 262-728-5551			For Lab Use Only: Walk-in Client; Lab Sampling
Fax			
Project Name: Delavan Well #4 WPDES			Job / SDG No: 500-208255
Site: Delavan WI			
P O #			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCE	TCA	PCE	Vinyl Chloride	TSS	Sample Specific Notes
SS1	11-9-21	0957	G	W	4			X	X	X	X	X	
2 Trip Blank					1								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification.
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 0.1 Corr'd 0.1 | Therm ID No

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Jerry Johnson	Pentair	11/10/2021			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Debb James	Company: ETA	Date/Time: 11-11-21 1025

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-208255-1

Login Number: 208255
List Number: 1
Creator: James, Jeff A

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	